

AN EXPERT SYSTEM TO TRACK DENGUE FEVER

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SUPERVISOR'S DECLARATION

“I hereby declare that I have checked this project report and in my opinion this project is satisfactory in terms of scope and quality for the award of the degree of Bachelor of Computer Science (Computer Systems & Networking)”.

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Date : 26 May 2012

STUDENT DECLARATION

I declare that this thesis entitled “An Expert System to Track Dengue Fever” is the result of my own research except as cited in the references. The thesis has not been accepted for any degree and is not concurrently submitted in candidature of any other degree.

Signature :

Name : SHARIFAH HANIS BT SYED AHMAD

Date : 26 May 2012

DEDICATION

Thankful To Allah the Almighty

To My Beloved Father and Mother:

SYED AHMAD SYED TAHIR

SHARIFAH ZAITUN SYED OMAR

... Your love and Sacrifice Will Be Always In My Mind...

My Beloved Siblings:

SYED HASAN, SYED HUSIN

... May Allah Bless You All...

To My Supervisor:

DR RAHMAH BT MOKHTAR

... Thank A Lot for Support, Encouragement and Guidance...

To All My Friends:

All 3BCN, 3BCG and 3BCS

... Thank for your support and cooperation...

Sincerely

SHARIFAH HANIS BT SYED AHMAD

ACKNOWLEDGEMENT

Alhamdulillah, firstly I would like to thank to Allah because without His bless I will not finished my Final Year Project successful. I also would like to thank to my supervisor, DR RAHMAH BT MOKHTAR for her encouragement guidance, advices, critics, help and many more. Without her support, my project would not have been the same as presented here.

I am also very thankful to all my lecturers for their helps in giving valuable information for my project. My sincere appreciation also extends to all my colleagues who provided assistance during finishing this project. Their opinion, tips and helps are highly appreciated. Not forgotten to all my family members.

ABSTRACT

A computer program capable of performing at a human-expert level in a narrow problem domain area is called an expert system. Expert knowledge is often represented in the form of rules or as data within the computer. Depending upon the problem requirement, these rules and data can be recalled to solve problems. Rule-based expert systems have played an important role in modern intelligent systems and their applications in strategic goal setting, planning, design, scheduling, fault monitoring, diagnosis and so on. Dengue is the most common mosquito-borne viral disease of humans that in recent years has become a major international public health concern. Globally, 2.5 billion people live in areas where dengue viruses can be transmitted. From statistic above, obviously dengue fever became a big issue nowadays because it can bring to death if no action is taken. The main problem is many people cannot ensure whether they are infected by dengue fever or not which make them do nothing as they thought it is only a normal fever. Online diagnosis is becoming popular day by day because in today's world people are so busy, they do not even have enough time to visit a doctor. Dengue Tracking System would help them to have an idea about the disease. Dengue Tracking System is an online system that will help people to detect if they are infected by dengue or not. This would help the doctor, to diagnose the person correctly and provides the right treatment.

ABSTRAK

Demam denggi dan demam biasa sukar untuk dibezakan dan pesakit menghadapi masalah dalam membezakan penyakit ini. Dalam usaha untuk menyelesaikan isu ini satu sistem pengesanan penyakit yang dipanggil Dengue Tracking System(DTS) dibangunkan. DTS permohonan secara dalam talian untuk membantu pengguna untuk mengenal pasti simptom-simptom denggi pada pemilihan gejala. Ia akan dibangunkan menggunakan asas algoritma tentang gejala yang menggunakan berasaskan peraturan. Sistem ini akan membantu orang ramai untuk mengetahui sama ada mereka menghadapi demam denggi atau tidak berdasarkan pemilihan gejala dan kemudian mengesyorkan doktor jika perlu. Sistem pakar adalah satu program yang mampu melaksanakan di peringkat pakar manusia dalam domain yang sempit. Pada dunia hari ini manusia begitu sibuk, mereka tidak mempunyai masa yang cukup untuk memantau kesihatan mereka. DTS adalah pengguna permohonan yang dibenarkan untuk mengakses masuk di mana-mana antaranya di rumah, pejabat atau lain-lain. Ia boleh digunakan oleh semua orang dan pengguna tidak perlu menghabiskan banyak masa untuk pergi ke hospital.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

A computer program capable of performing at a human-expert level in a narrow problem domain area is called an expert system [1]. Management of uncertainty is an intrinsically important issue in the design of expert systems because much of the information in the knowledge base of a typical expert system is imprecise, incomplete or not totally reliable [2].

Conventional rule-based expert systems, use human expert knowledge to solve real-world problems that normally would require human intelligence. Expert knowledge is often represented in the form of rules or as data within the computer. Depending upon the problem requirement, these rules and data can be recalled to solve problems. Rule-based expert systems have played an important role in modern intelligent systems and their applications in strategic

goal setting, planning, design, scheduling, fault monitoring, diagnosis and so on [3].

Online diagnosis is becoming popular day by day. In today's world people are so busy, they do not even have enough time to visit a doctor. So this online tracking system would help them to have an idea about the disease. After that they can consult the physician if it is necessary.

Dengue Tracking System is an online system that will help people to detect if they are infected by dengue or not. This would help the doctor, to diagnose the person correctly and provides the right treatment.

1.2 Problem Statement

Dengue is the most common mosquito-borne viral disease of humans that in recent years has become a major international public health concern. Globally, 2.5 billion people live in areas where dengue viruses can be transmitted. The geographical spread the mosquito vector and the viruses have led to the global resurgence of epidemic dengue fever (DF) in the past 25 years with the development of hyper endemicity in many urban centres of the tropics [4]. From statistic above, obviously dengue fever became a big issue nowadays because it can bring to death if no action is taken. The main problem is many people cannot ensure whether they are infected by dengue fever or not which make them do nothing as they thought it is only a normal fever. So that Dengue Tracking System will be developed to solve these issues. Dengue Tracking

System is an online system that will help people to detect if they are infected by dengue or not. This would help the doctor, to diagnose the person correctly and provides the right treatment.

1.3 Objectives

The objectives of this project are:

- I. To develop set of rules of dengue prediction.
- II. To develop web-based application that will be named Dengue Tracking System.

1.4 Scope

Research is focus on dengue fever and this system tracking dengue fever based on the symptoms user had using rule-based for the expert system. This system is open for everyone.

1.5 Thesis Organization

This thesis consists of six (6) chapters. Chapter 1 will discuss on introduction to the system. The discussion consists of system overview. Problem statement discuss on the problem that faced by the current system. On

objectives, the reasons of the development of project are listed. Scope of the project is discussed on project and user limitation.

Chapter 2 is literature review which will discuss on current system and the technique or the software that is used on the current system.

Chapter 3 will discuss on system methodology. It will be discuss on the method that is used to develop the system and project planning. On this chapter also will discuss the needs of the project such as the software and the device that are needs to develop the system.

Chapter 4 will discuss on project implementation. This chapter will discuss on design of project development.

Chapter 5 will discuss on discussion and result that receive from the data and data analysis, project constrain and, fix and suggestion of the system. Project analysis will discuss on project objective which continuously with project problem.

CHAPTER 2

LITERATURE REVIEW

This chapter presents reviews of relevant literature. It is to extract knowledge, various ideas, together with concepts, and apply them in this project. It includes detailed descriptions of technique and approaches that will be used as a guidance or guideline to develop Dengue Tracking System. The following paragraphs summarize the literature review related to the project.

2.1 Dengue

Dengue is a mosquito-borne disease caused by any one of four closely related dengue viruses (DENV-1, -2, -3, and -4). Infection with one serotype of DENV provides immunity to that serotype for life, but provides no long-term immunity to other serotypes. Thus, a person can be infected as many as four times, once with each serotype. Dengue viruses are transmitted from person to person by *Aedes* mosquitoes (most often *Aedes aegypti*) in the domestic environment. Epidemics have occurred periodically in the Western Hemisphere for more than 200 years. In the past 30 years, dengue transmission and the frequency of dengue epidemics have increased greatly in most tropical countries in the American region [5].

2.1.1 Dengue Fever (DF)

Dengue is the most common mosquito-borne viral disease of humans that in recent years has become a major international public health concern. Globally, 2.5 billion people live in areas where dengue viruses can be transmitted. The geographical spread the mosquito vector and the viruses have led to the global resurgence of epidemic dengue fever (DF) in the past 25 years with the development of hyper endemicity in many urban centres of the tropics [4].

Classic dengue fever, or “break bone fever,” is characterized by acute onset of high fever 3–14 days after the bite of an infected mosquito. Symptoms include frontal headache, retro-orbital pain, myalgias, arthralgias, hemorrhagic

manifestations, and rash. The patient also may complain of anorexia and nausea. Acute symptoms, when present, usually last about 1 week, but weakness, malaise, and anorexia may persist for several weeks. A high proportion of dengue infections produce no symptoms or minimal symptoms, especially in children and those with no previous history of having a dengue infection [5].

2.1.2 Statistics of Dengue Fever (DF)

Dengue fever (DF) continues to be an important public health problem in Malaysia. It has been epidemic in Malaysia for a long time [13]. In 1998, about 26,240 of dengue fever cases were recorded by the Ministry of Health, Vector Borne Disease Control Section (VBDC). Malaysia was reported to have higher case fatality rates (4.67%) compared with the neighbouring countries like Thailand and Indonesia, with the case fatality rates of 0.3% and 0.5%, respectively. According to [15], Malaysia has a good laboratory-based surveillance system; however, it is basically a passive system and has a little predictive capability. Problem may occur if one waits for laboratory confirmation of the case before notification. Delay in notification may lead to delay in control measure, which will further lead to occurrence of outbreaks, since dengue needs optimum time of management as the transformation of DF into severe form of dengue are only takes a very short period [18]. One of the solutions is to implement a simulation of dengue spread in Malaysia, with emphasis on an early prediction of dengue outbreak [19]. It may improve public health problem in Malaysia since the accurate and well-validated simulation to predict the dengue outbreak is needed to enable timely action by public health officials to control such epidemics and mitigate their impact on human health [20].

2.1.3 Symptoms of Dengue Fever (DF) [12]

- Sudden onset of high fever (3-14 days)
- Retro-orbital pain
- Myalgias
- Arthralgias
- Rash
- Anorexia
- Nausea
- Backache
- Painful red eyes
- Vomiting
- Depression
- Malaise
- Headache
- Lymphadenopathy
- Lacrimation
- Bradycardia
- Prostration (Hyperthermia)

2.2 Expert System

An expert system is a computer system that emulates the decision-making ability of a human expert. The term expert may be misleading. In the early days expert system only contained expert knowledge. Presently however,

any system using expert system technology is called an expert system. Therefore, the term knowledge-based system is more appropriate, although most people use the term expert system because it is shorter [6].

Expert systems have emerged from early work in problem solving, mainly because of the importance of domain-specific knowledge. A human expert's knowledge is specific to a problem domain. In much the same way, expert systems are designed to address a specific domain, called the knowledge domain [6].

Figure 1 below shows the concept of knowledge-based expert system. The expert system receives facts from the user and provides expertise in return. The main components of the expert system are the knowledge base and the inference engine. The inference engine may infer conclusions (solutions) from the knowledge base, based on the 'facts' supplied by the user [6].

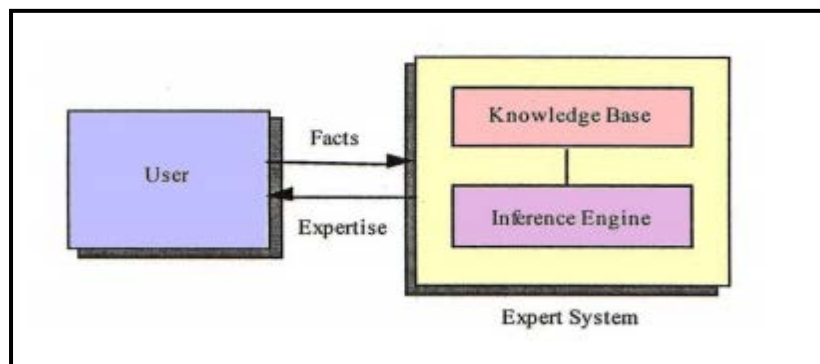


Figure 1.1: Basic concept of an expert system [6]

2.2.1 Advantages of Expert System

Expert systems offer an environment where the good capabilities of humans and the power of computers can be incorporated to overcome many of the limitations discussed in the previous section. Expert systems [7]:

- I. Permanance - Expert systems do not forget, but human experts may.
- II. Reproducibility – Many copies of an expert system can be made, but training new human experts is time-consuming and expensive.
- III. Efficiency - can increase throughput and decrease personnel costs. Although expert systems are expensive to build and maintain, they are inexpensive to operate. Development and maintenance costs can be spread over many users. The overall cost can be quite reasonable when compared to expensive and scarce human experts.
- IV. Consistency - With expert systems similar transactions handled in the same way.
- V. Documentation - An expert system can provide permanent documentation of the decision process.
- VI. Completeness - An expert system can review all the transactions, a human expert can only review a sample.
- VII. Timeliness - Fraud and/or errors can be prevented. Information is available sooner for decision making.
- VIII. Breadth - The knowledge of multiple human experts can be combined to give a system more breadth that a single person is likely to achieve.
- IX. Reduce risk of doing business.

2.2.2 Comparison of Expert System and Human Experts

There are some comparisons that can be made between Expert System and Human Expert . From this comparisons later, it that can be decided which better from both of them and which one should be used when solving a problem. From the side of knowledge used, human expert use knowledge in the form of rules of thumb or heuristics to solve problem in narrow domain and for the expert system, the process knowledge expressed in the form of rules and use symbolic reasoning to solve problem in a narrow domain. Apart from that, in human brain, knowledge exists in a compiled form which for the expert system, it provides a clear separation of knowledge from its processing so that it will be a lot easier. Last but not least, by using human expert, the quality of problem solving is enhanced but it will take years of learning and practical training. So, this kind of process is slow, inefficient and expensive. It is different when using expert system which the quality of problem solving is also enhanced, but it is by adding new rules or adjusting old ones in the knowledge base. When new knowledge is acquires, changes are easy to accomplish. As a conclusion, expert system will be chose because it gave many advantages which human expert cannot give [8].

2.2.3 Intelligent technique

The most largely applied intelligent techniques are:

- I. Rule-base expert system
- II. Fuzzy logic
- III. Neural network
- IV. Frame-Based expert system

2.2.3.1 Rule-Based expert system

The majority of expert systems developed to date have been rule-based. A survey of system built since the 1970s show that approximately 80% are rule based [21].

In the rules base expert system the knowledge base is contains the domain-specific knowledge in the form of rules. The working memory contains the problem-specific fact and conclusions derived by the inference engine. Information in the working memory along with the rules in the knowledge base will be use by inference engine to derive the conclusion. There two ways rules-based system operates: forward and backward chaining [21].

Forward chaining is the data driven reasoning. The reasoning start from the know data and process forward with the data. Each time only topmost rule is executed. When fired, the rules add a new fact in the database. Any rules can be executed only once. When no further rules can be fired, the match-fire cycle will stop [22].

Backward chaining is the goal driven reasoning. In backward chaining, an expert system has the goal (a hypothetical solution) and the inference engine attempt to find the evidence to prove it [22].

2.2.3.1.1 Rules as a knowledge representation technique

Any rule consists of two parts: the IF part, called the antecedent (premise or condition) and the THEN part called the consequent (conclusion or action). The basic syntax of a rule is: [22].

IF <antecedent>

THEN <consequent>

A rule can have multiple antecedents joined by the keywords AND (conjunction), OR (disjunction) or a combination of both.

IF <antecedent 1>

AND <antecedent 2>

.

.

.

AND <antecedent n>

THEN <consequent>

IF <antecedent 1>

OR <antecedent 2>

.
.
.
OR <antecedent n>

THEN <consequent1>

2.2.3.2 Fuzzy logic

An expert system that uses fuzzy logic instead of Boolean logic is known as fuzzy expert system. A fuzzy expert system is collection of fuzzy rules and membership functions that are used to reason about data. Using fuzzy expert system expert, expert knowledge can be represented that use vague and ambiguous term in computer [22].

Fuzzy logic is determined as a set of mathematical principle for knowledge representation based on degree of membership rather than on crisp membership of classical binary logic.

Not like two-valued Boolean logic, fuzzy logic is multi-valued. It is deal with degree of membership and degree of truth. The continuum of logical value between 0 (completely false) and 1 (completely true) has been use for the fuzzy logic [22].

2.2.3.2.1 Fuzzy rules

A fuzzy rule can be defined as a conditional statement in the form: [22].

IF x is A

THEN y is B

Where x and y are linguistic variables while A and B are linguistic values determined by fuzzy sets on the universe of X and Y respectively.

A classical IF-THEN rule	Fuzzy rules
Uses binary logic	Relate to the fuzzy sets
e.g. Rule: 1 If speed is > 100 Then stopping_distance is long Rule: 2 If speed is < 40 Then stopping_distance is short	e.g. Rule: 1 If speed is fast Then stopping_distance is long Rule: 2 If speed is slow Then stopping_distance is short
The variable speed can have any numerical value between 0 and 220km/h but the linguistic variable stopping_distance can take either value long or short.	The variable speed has the range between 0 and 220km/h but this range includes fuzzy sets such as slow, medium and fast. The linguistic variable stopping_distance can be 0 and 300m and may include such

	fuzzy sets as short, medium and long
classical rules are expressed in the black and white language of Boolean logic	multi-valued

Table 1.1 The differences between classical and fuzzy rules [22].

2.2.3.3 Neural Network

Neural network can be defined as a model of reasoning based on the human brain. The brain consists of a densely interconnected set of nerve cells, or basic information-processing units, called neurons.

An artificial neural network consists of a number of very simple and highly interconnected processor, also called neurons, which are analogous to the biological neurons in the brain. The neurons are connected by weighted links passing signals from one neuron to another. Each neuron receives a number of input signals through its connection; however it never produces more than a single output signal. The output signal is transmitted through the neuron outgoing connection. The outgoing connection, in turn, spilt into a number of branches that transmit the same signal. The outgoing branches terminate at the incoming connection of other neuron in the network [22].

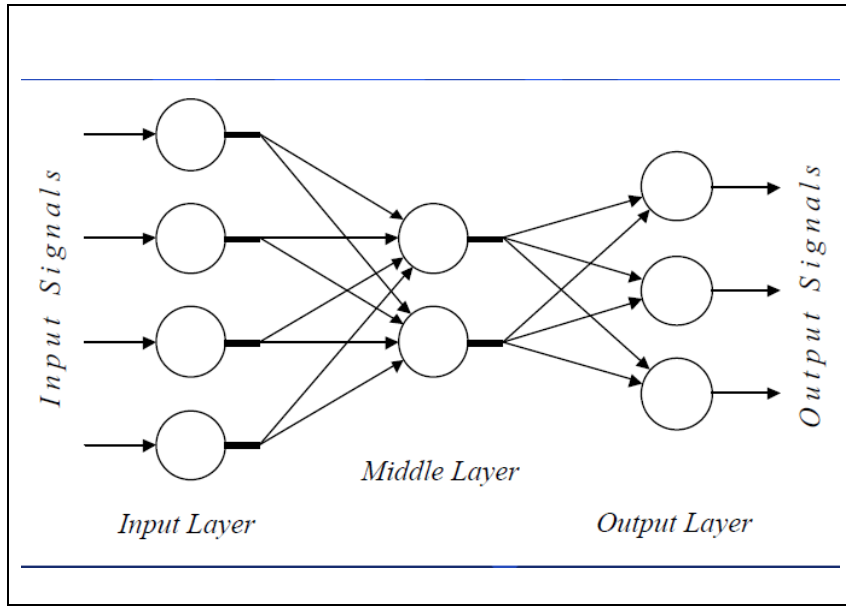


Figure 1.2: Architecture of a typical artificial neural network [22]

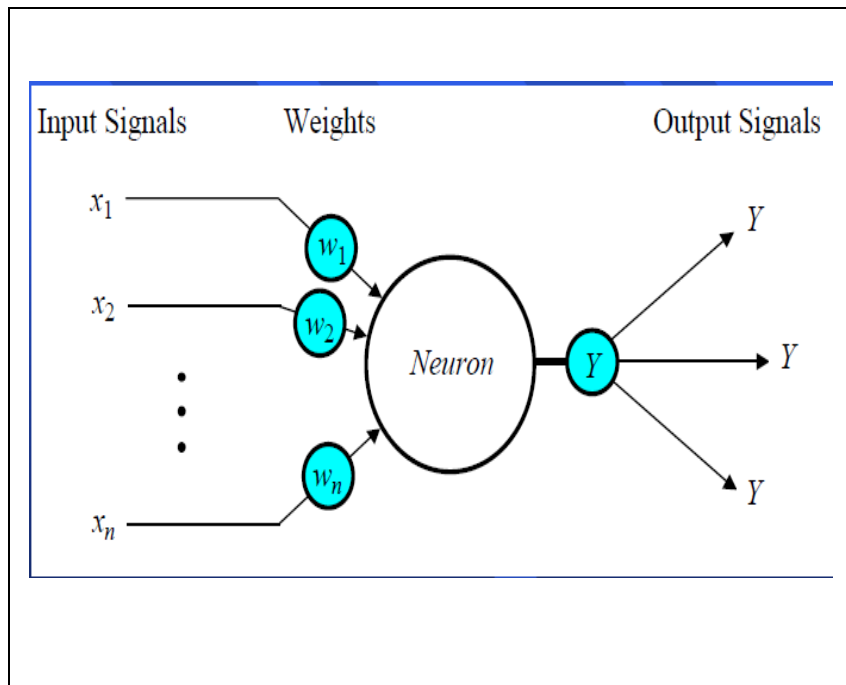


Figure 1.3: Diagram of a neuron [22].

A neuron receives several signals from its input link, computes a new activation level and sends it as an output signal through the output links. The

input signal can be raw data or outputs of other neurons. The output signal can be either a final solution to the problem or an input to other neurons.

2.2.3.4 Frame-Based expert system

Frame-based expert system expand on the ideas of the prior example and usually include a number of inter related frames and other utilities that enhance the power of these system. Some frame-based expert systems employ a goal agenda and a asset of rules. The agenda provides a list of task to perform. The rule set includes powerful pattern matching rules that are capable of drawing inference from the entire frame world by scanning the entire frame to look for supporting information [21].

2.2.3.4.1 Frames as a knowledge representation technique

The concept of a frame is defined by a collection of slots. Each slot describes a particular attribute or operation of the frame. In many respects, a frame resembles the traditional record that contains information relevant to typical entities. Slots are used to store values. A slot may contain a default value or a pointer to another frame, a set of rules or procedure by which the slot value is obtained. In general, slots may include such information as: [22].

- I. Frame name
- II. Relationship of the frame to the other frames
- III. Slot value – A slot value can be symbolic, numeric or Boolean. Slot value can be assigned when the frame is created or during a session with the expert system.

- IV. Default slot value – The default value is taken to be true when no evidence to the contrary has been found.
- V. Range of the slot value – The range of the slot value determines whether a particular object or concept complies with the stereotype requirements defined by the frame.
- VI. Procedural information – A slot can have a procedure (a self-contained arbitrary piece of computer code) attached to it, which is executed if the slot value is changed or needed. They are two types of procedures often attached to slots:
 - VII. WHEN CHANGED procedure is executed when new information is placed in the slot.
 - VIII. WHEN NEEDED procedure is executed when information is needed for the problem solving, but the slot value is unspecified.

Rule-Based expert system	Fuzzy logic	Neural Network	Frame-Based expert system
Use IF-THEN structure	Use IF-THEN structure	Not use IF – THEN structure	Use IF-THEN structure
A set of rules represents the domain knowledge useful for problem solving	A set of mathematical principle for knowledge representation based on degree of membership rather than on crisp membership of classical binary	A model of reasoning based on the human brain	The rules often use pattern matching clause. These clauses contain variables that are used for finding matching conditions among all

	logic		instance-frames.
Each rule captures some heuristic of the problem and each new rule adds some new knowledge.	It attempts to model human's sense of words, decision making and common sense.	Neural network have the ability to learn through experience	Classes and their attributes are identified, and hierarchical relationships between frames are established. The overall hierarchical structure of the knowledge is decided first
Easily to modified by changing, adding or subtracting rules	It is more human intelligent machines	Use experience to improve their performance	Allow to add actions to the frames through methods and demons

Table 1.2: Comparison analysis of various expert system tools

2.2.3 Proposed Rule-Based expert system

Based on the analysis in Table 1.2, rule-base expert system is the suitable technique for Dengue Tracking System (DTS) because the production rules have the uniform IF-Then structure that will make the system easier to develop.

2.3 Studies on the Existing System

With the increasing usage of the Information Technology (IT) in life today, there are many applications that have been developed. For the purposes of this research, this is the three examples of similar application with Dengue Tracking System.

2.3.1 YourDiagnosis System (Online Self Diagnosis and Symptom Analysis) [9]

YourDiagnosis is developed by an expert panel of very experienced doctors in Australia. They are part of a large medical and hospital group called Macquarie Health Corporation Ltd. Macquarie Health Corporation Ltd. also owns Macquarie Hospital Services and Macquarie Medical Systems. Macquarie Hospital Services have owned and operated private hospitals since 1976. [9]

YourDiagnosis performs an in-depth analysis, which collects all the information about users' health condition and then forms a list of diagnoses. It has a database of thousands of questions to cover a wide range of possible diseases. In most of the other online diagnostic websites, the total numbers of questions are fixed and users are required to answer all the questions. In YourDiagnosis, the number and type of questions asked will vary depending on users' responses. Analysis of users' answers to these questions will provide a comprehensive list of possible or probable diagnoses. The result will come out as in report which user can print and share with doctor or health professional. The advantage of this system is user can continue their session just by entering their email and password. This system does not require user to sign up before the system can be used [9].

The screenshot shows the 'YourDiagnosis' logo at the top center. Below it, a question asks 'Do you have any of the following complaints?' with a sub-instruction: 'Click on all relevant boxes or if none, just continue.' There are 13 checkboxes arranged in three columns: 'Pale sickly appearance', 'Often get sick', 'Weight loss', 'Fever', 'Fatigue or tiredness', 'Stress or anxiety', 'Trouble sleeping', 'Headache', 'Muscle aches and pains', 'Unusually thirsty', 'Breathing difficulties', 'Change in your behaviour', and 'Nausea'. At the bottom, there are three buttons: 'Go Back' (with a left arrow), 'Continue' (with a right arrow), and 'Save and Exit' (with a central arrow).

Figure 1.4: Interface to select symptoms of YourDiagnosis System [9]



Figure 1.5: Interface to answer question based on selected symptom of YourDiagnosis System[9]

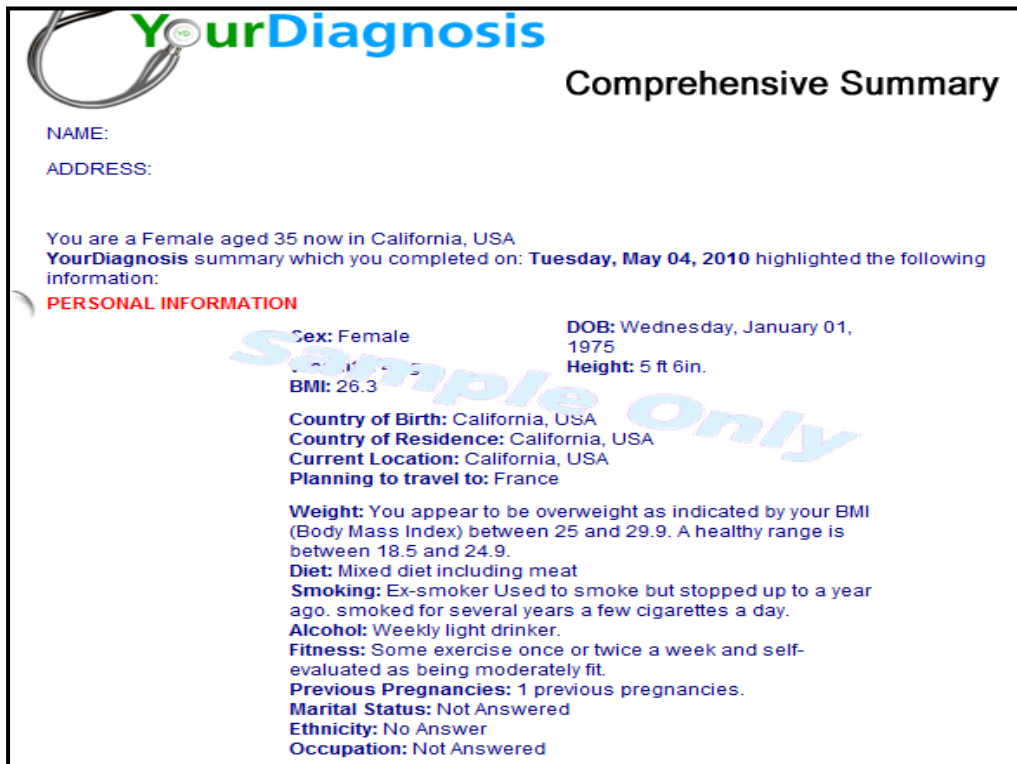


Figure 1.6: Interface of medical report of YourDiagnosis System [9]

Please see your doctor if any of these findings persist.

WARNING FINDINGS:
No Warning Findings were triggered.

HEALTH RISKS:
You have identified the following Risk Factor(s) which can be minimised by taking appropriate preventative measures:
Recent ex smoker
Overweight
Allergies
Inadequate immunization status

POSSIBLE DIAGNOSES
Any **CURRENT KNOWN HEALTH ISSUES** need to be considered in conjunction with the following diagnoses as identified in this session of **YourDiagnosis**. **CLICK ON EACH DIAGNOSIS FOR MORE INFORMATION.**

	Probability	Urgency
ECTOPIC PREGNANCY	<div style="width: 100%; height: 10px; background-color: blue;"></div>	You should see your doctor immediately.
VAGINITIS	<div style="width: 50%; height: 10px; background-color: blue;"></div>	You should see your doctor within 3 to 7 days.
PREGNANCY(EARLY)	<div style="width: 50%; height: 10px; background-color: blue;"></div>	You should see your doctor within 3 to 7 days.
DIVERTICULAR DISEASE	<div style="width: 50%; height: 10px; background-color: blue;"></div>	You should see your doctor within 24 hours.
SALPINGITIS ACUTE	<div style="width: 50%; height: 10px; background-color: blue;"></div>	You should see your doctor within 24 hours.

YourDiagnosis summary above has now created you own FREE Personal Health Record (PHR) on www.YourHealthRecord.com

Please use the same email and password in future to access YourDiagnosis and PHR on www.YourHealthRecord.com

Figure 1.7: Interface of medical report of YourDiagnosis System [9]

2.3.2 EasyDiagnosis System (EasyDiagnosis Modules) [10]

EasyDiagnosis is a division of MatheMEDics and it is consults with Government Agencies such as the National Centre for Health Statistics (NCHS), academic and high level clinicians, epidemiologists, actuaries, health care economists, and computer scientists [10].

EasyDiagnosis is an online diagnosis system. This expert system software provides a list and clinical description of the most likely conditions based on an analysis of patient's particular symptoms. User does not need to sign up as a member if they wanted to use this system. After the selections of symptoms and conditions have been made, then users have to answer all questions the system provided and cannot skip any of the questions. Finally, the possible disease will come out in percentage. EasyDiagnosis focuses on the most common medical complaints that account for the majority of physician visits and hospitalizations [10].

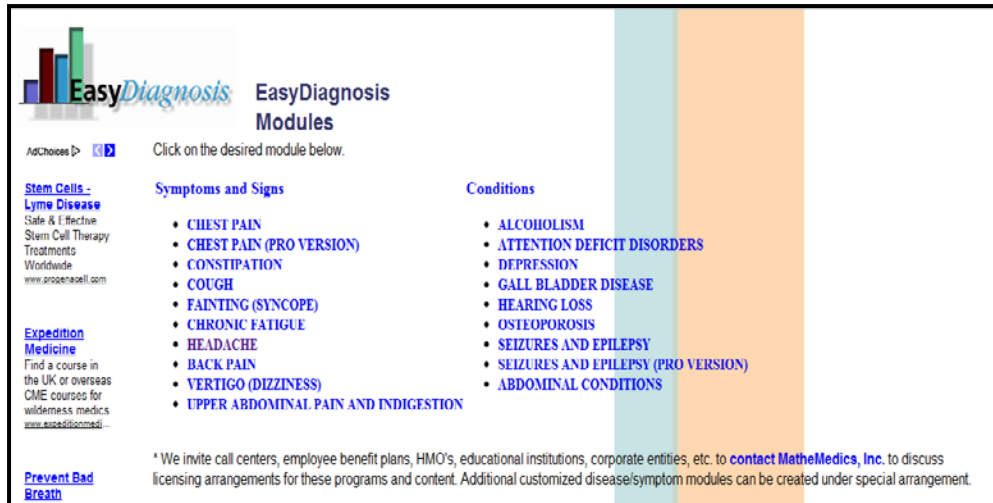


Figure 1.8: Interface to select symptoms or conditions of EasyDiagnosis [10]

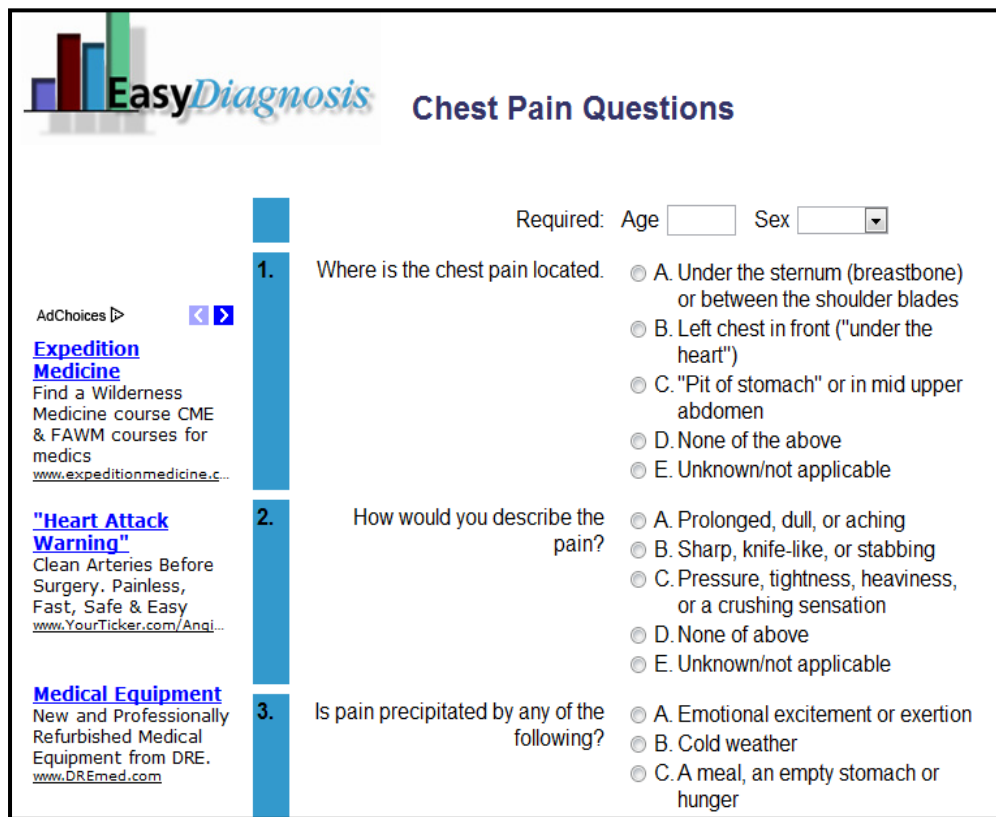


Figure 1.9: Interface to answer questions based on selected symptom of EasyDiagnosis [10]

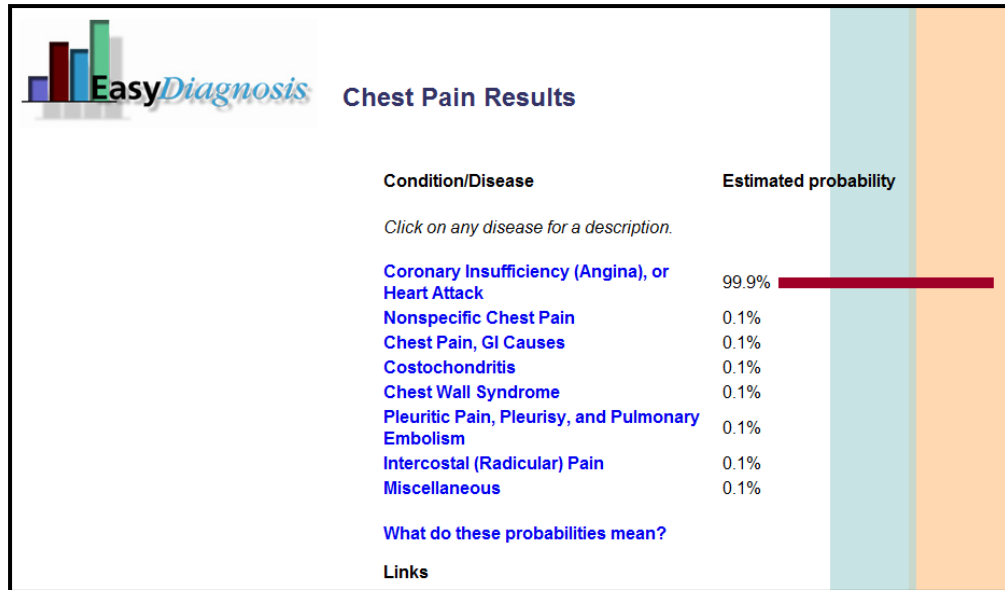


Figure 2.1: Interface of the result of EasyDiagnosis [10]

2.3.3 Better Medicine (Symptom Checker System) [11]

Better Medicine which is part of Health Grades network and WebMD [12] whose slogan is “Better Information, Better Health” is another efficient health information website.

Better Medicine is an online health information website and one of the applications is Symptom Checker System. User will start using the system by choosing one from three categories provided. After selection has been made, the list of common symptoms will be appeared and user is able to choose more than one symptom. There is no question will be asked after that and user can continue to view the possible causes from the selected symptoms. Even though this system is quite simple, it gave exactly what user needed as we know when it comes to health, we want a system that can provides simple instructions and give fast result [11].

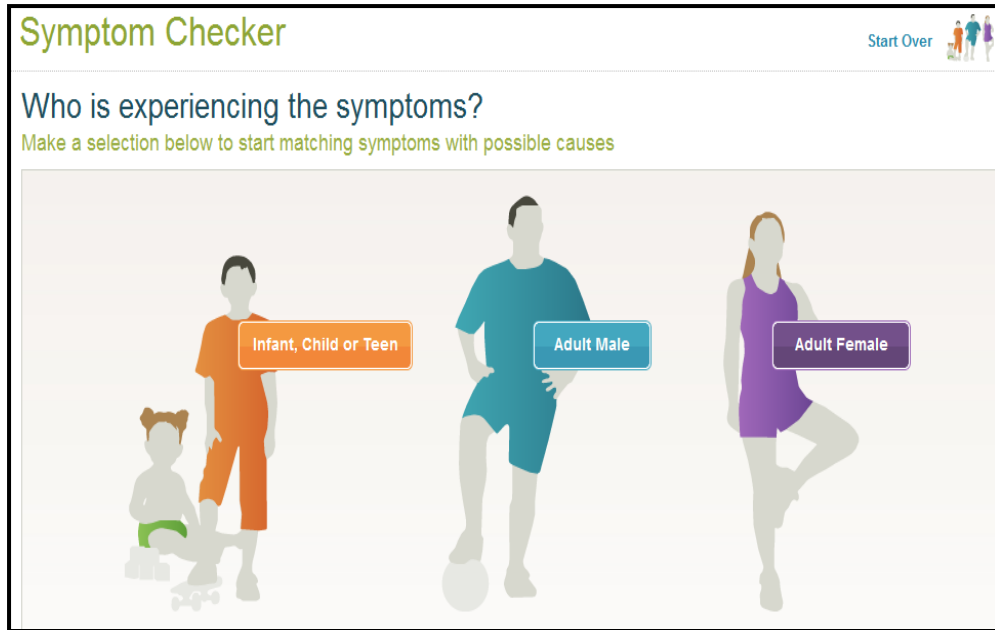



Figure 2.2: Interface to select categories of Symptom Checker System [11]



Figure 2.3: Interface to select symptoms of Symptom Checker System [11]



Possible Causes (2 of 2)

Infant, Child or Teen

My Selections: Eye redness ✕ Fever ✕ Cough ✕ [Add More Symptoms](#)

Jump to: [Measles](#) | [Whooping Cough](#)

Whooping Cough

Whooping cough is a very contagious disease caused by a bacterial infection of the respiratory tract. Whooping cough, also known as pertussis, is caused by the bacterium *Bordetella pertussis*.
[Learn more about whooping cough >](#)

- [→ Whooping Cough Symptoms](#)
- [→ Whooping Cough Causes](#)
- [→ Whooping Cough Treatment](#)

TYPICAL SYMPTOMS
(Selections you made are bold)

- **Fever**
- Runny or stuffy nose
- **Eye redness**
- **Cough**
- Vomiting after cough
- Shortness of breath

Measles

Measles is a disease caused by a respiratory virus that produces telltale red spots on the body. In addition to the spots, symptoms include fever, runny nose, and cough. Measles is a childhood disease that rarely occurs in adults. Measles is also known as rubeola.
[Learn more about measles >](#)

- [→ Measles Symptoms](#)

TYPICAL SYMPTOMS
(Selections you made are bold)

- **Fever**
- Rash
- **Cough**
- Sore throat

Figure 2.4: Interface of the result of Symptom Checker System [11]

2.3.4 Advantages and Constraints of Existing System

Existing Systems	Advantages	Constraints
<p>YourDiagnosis System (Online Self Diagnosis and Symptom Analysis)</p>	<ul style="list-style-type: none"> ➤ Interesting Graphical User Interface(GUI). ➤ Does not need to sign up. Only use email and password to continue session. ➤ Can choose more than one choice when answering question. ➤ Provide medical report. ➤ Has wide range of possible diseases. ➤ Give suggestion of what user should do next after the possible disease is already known. 	<ul style="list-style-type: none"> ➤ Too many questions asked.
<p>EasyDiagnosis System (EasyDiagnosis Modules)</p>	<ul style="list-style-type: none"> ➤ Simple Graphical user Interface ➤ Does not need to sign up if wanted to use the system. 	<ul style="list-style-type: none"> ➤ Time consuming as user cannot skip any question. ➤ Cannot choose more than one symptom or condition. ➤ Does not give suggestion of what user should do next after the possible disease is already known.

<p>Better Medicine (Symptom Checker System)</p>	<ul style="list-style-type: none"> ➤ Easy to use, user friendly and interesting Graphical User Interface ➤ Does not need to sign up if wanted to use the system. ➤ User can choose more than one symptom ➤ No question will be asked and user can view the result fast. 	<ul style="list-style-type: none"> ➤ Does not give suggestion of what user should do next after the possible disease is already known.
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Table 1.3: Advantages and Constraints of Existing System

Because of the constraints listed in Table 1.3, the new system can be developed to overcome the problems.

2.5 Forward and Backward Chaining

Inference engines in rule based systems can use different strategies to derive the goal (i.e., new fact), depending on the types of applications aimed at. The most common strategies are [14]:

- Forward Chaining
- Backward Chaining

Systems can use either one of these strategies or a combination of both. Some systems allow users to specify which strategy they need for their application [14].

2.5.1 Forward Chaining

Based on the analysis that has been made, forward chaining is the suitable strategy for Dengue Tracking System (DTS). Forward chaining is essentially data driven. That is, the system starts with the initial set of elements in the working memory and keeps on firing rules until there are no rules which can be applied or the goal has been reached. In effect, the system is moving *forward* from the current state to a goal state [14].

2.6 PHP

PHP is a server-side, cross-platform, HTML embedded scripting language that lets you create dynamic web pages. PHP-enabled web pages are treated just like regular HTML pages and you can create and edit them the same way you normally create regular HTML pages. PHP is mainly focused on server-side scripting, so you can do anything any other CGI program can do, such as collect form data, generate dynamic page content, or send and receive cookies. PHP is the programming language used with the MySQL programming language [16]. In making this web-based expert system, PHP will be used because PHP is a open source programming language where anyone can use it plus it is quite easy to use.

2.7 MySQL

MySQL can be used for a variety of applications, but is most commonly found on Web servers. A website that uses MySQL may include Web pages that access information from a database. These pages are often referred to as "dynamic," meaning the content of each page is generated from a database as the page loads. Websites that use dynamic Web pages are often referred to as database-driven websites [17].

Many database-driven websites that use MySQL also use a Web scripting language like PHP to access information from the database. MySQL commands can be incorporated into the PHP code, allowing part or all of a Web page to be generated from database information [17].

MySQL will be used in my project to store the list dengue symptoms. MySQL is chosen because besides from it is also open source like PHP language, MySQL is one of the software management system database which is easy to learn in making the data source and data processing.

CHAPTER 3

METHODOLOGY

3.1 Introduction

This chapter describes the method that will be used in development of prototype of “Dengue Tracking System (DTS)”. Methods are comprehensive, multiple-step approaches to systems development that will guide work and influence the quality of final product. Most methodologies incorporate several development techniques. System development methodology is a standard

process followed in an organization to conduct all the steps necessary to analyze, design, implement and maintain the information system.

There are several methods, each describing approaches to a variety of tasks or activities that take place during the process. One of them that have been choosing in this project is Iterative Development Model. The Iterative Model is chosen because the project can return to earlier phase if necessary.

There are five phases of software processes in the Iterative Model. They are project initiation and planning, analysis, system design, implementation and system testing. The Figure 2.5 below shows the diagram of Iterative Model.

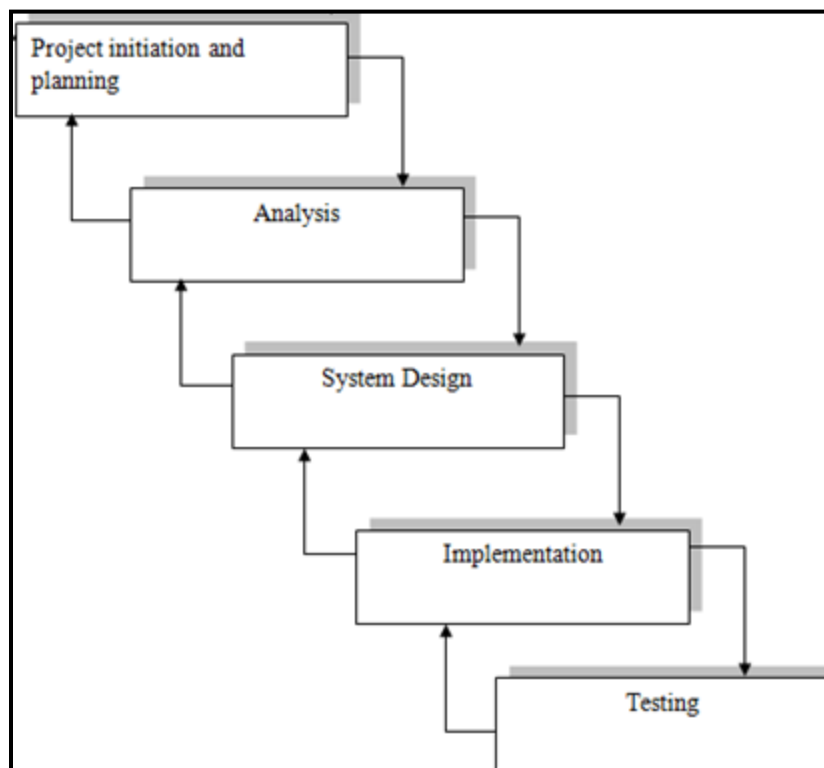


Figure 2.5: Iterative Model for Dengue Tracking System (DTS)

3.2 Project Initiation and Planning

The second phase of the Iterative Model Process is project initiation and planning. The primary objectives of the planning phase are to identify the scope of the system, to ensure that the project is feasible and to develop a schedule to allocate resources. This phase consists of activities that are required to get the project organized and started. These activities include define the problem, confirm project feasibility, and produce the project schedule.

The proposed project planning can be referred in the Gantt Chart in **Appendix A**.

The planning phase starts from defining the problem and scope of the project. That is the most important activity of the planning phase. In order to get the system requirements, a few steps have been made. There are:

There are three steps taken in the project planning:

I. Understand the existing system

Try to get a better understanding of the existing system to collect information and ideas for the project development.

II. Interview with an expert

An expert who will be my reference in developing the prototype of Dengue Tracking System is Dr. Khairul from Pusat Kesehatan Pelajar UMP (refer to Appendix B).

III. Define the project scope and constraints

After gets all the information required in the project, the scop and constraints are identified.

Scopes for this system are:

- I. Research is focus on Dengue Fever.
- II. This system is to track dengue based on the symptoms using rule-based for the expert system.
- III. Open for everyone.

3.3 Analysis

The third phase of the Iterative Model Process is analysis. In this phase, it is more on research about the system and classifies the user's needs on the system. The activity will engage the study about the structure of the system. This phase is an important phase that will be effecting the system development.

The flow of the existing systems was studied to get clear process and gather information to define the flow of the system that will be developed.

After a clear understanding has been made, the user requirement process is conducted.

The important thing that should be considered before develop the prototype of DTS is the fundamental concept of how the system will work as a whole' needs to be established because it will provide the very basis of how the system is to be designed and implemented. As a result, this project needs to be a web page front-end, which is user-friendly and intuitive, so that users can natively navigate the system and its services, without too much difficulty. This will be the interface to the system.

List of dengue symptoms have been listed as Table 1.4 below.

Dengue		Symptoms
1	Dengue Fever (DF)	<ul style="list-style-type: none"> • Sudden onset of high fever (3-14 days) • Retro-orbital pain • Myalgias • Arthralgias • Rash • Anorexia • Nausea • Backache • Painful red eyes • Vomiting • Depression • Malaise • Headache • Lymphadenopathy • Lacrimation • Bradycardia • Prostration (Hyperthermia)

Table 1.4 Symptoms of Dengue Fever (DF)

System will give a list of symptoms which user needs to select which symptom is applicable to them. If user has no idea the meaning of symptom is, they can click on the symptom's link for further details. According to the selected symptoms, system will diagnose the symptom and determine whether the user is infected by dengue fever or not. Users can use this online tracking system anytime and anywhere. After that, they can consult the specialist doctor if it is necessary or serious.

3.4 Design

The fourth phase of the iterative model process is design. In this phase, it consists of architectural structure for software programs, the user interface and the operating environment. System design is built to make sure the development is based in the user's requirements.

It is need to design the various parts of the system to perform the physical operations to facilitate data capture, processing, and information output. Basically, Macromedia Dreamweaver MX 2004 will be used to create the interface of the system. This software is quite easy to use and understand for beginner and intermediate user. It is used to develop a web based application.

Here is the expected interface for DTS. Figure 2.6 shows the main page for Dengue Tracking System. . The flowchart of this system can be seen as Figure 2.7 below.

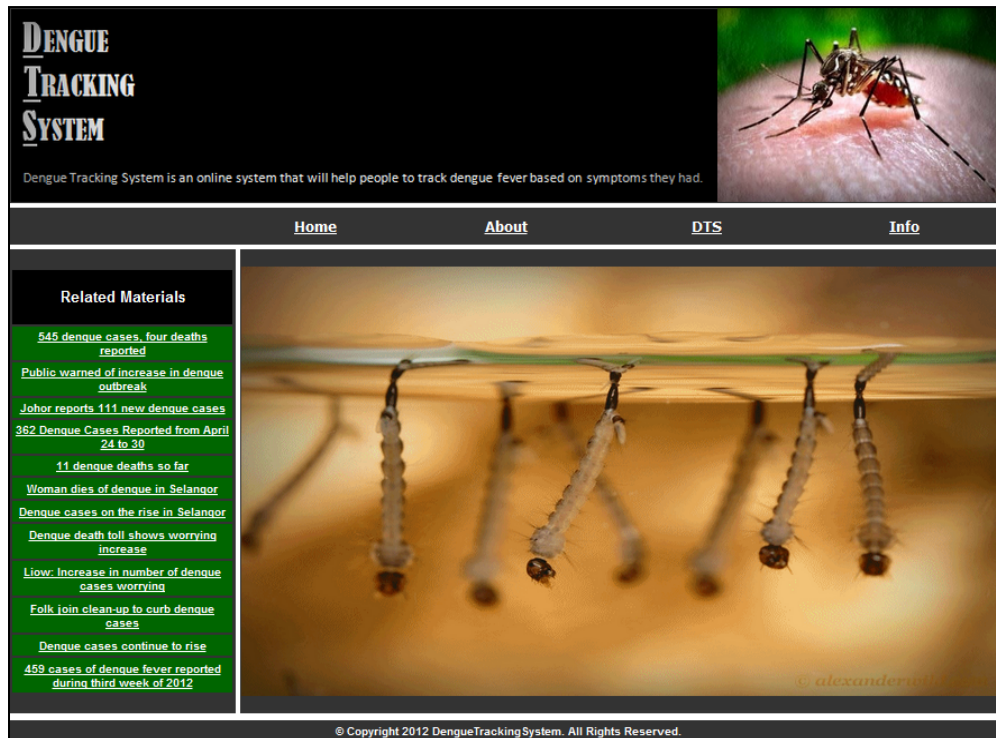


Figure 2.6: Interface for main page

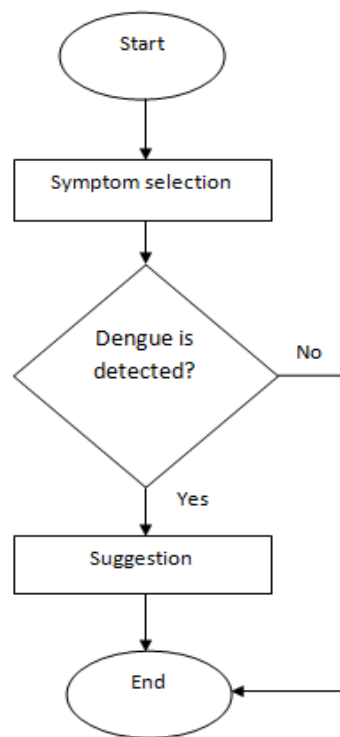


Figure 2.7: Flow chart of DTS

3.5 Implementation and Maintenance

The fifth phase of Iterative Model Process is implementation and maintenance. In this phase the information system is tested, implemented, and maintained. Maintenance phase is done only when the system has been delivered to end user. Any errors and interoperability problem which were not discovered in earlier phase of life cycle will be corrected at this phase and also modification will be done to fulfill the system requirements. The developer is responsible to make modification and correction if requested by the user. This modification is to make the systems works more efficiently and easily. The objective of this phase is not only to have a reliable, working information system but also to ensure that the system is fully functional.

3.6 Testing

- I. Unit Testing- Each module tested to ensure it fulfill the user's requirements.
- II. System Testing- The system tested after all the modules completed and integrated

CHAPTER 4

IMPLEMENTATION

4.1 Introduction

The main purpose of this chapter is to deliver brief explanations and shows the important control in Dengue Tracking System (DTS). Generally, this chapter is about to give details explanations about designs that were applied in this project. Basically, this system was developed by using Adobe Dreamweaver as the platform that used programming language in Php, Html.

4.2 Implementation

The goal of the implementation phase is to implement a system correctly, efficiently, and quickly on a particular set or range of computers, using particular tools and programming languages. The implementation stage is primarily environmental and works with the realities of particular machines, system, language compilers, tools, developers, and clients necessary to translate a design into working code.

Dengue Tracking System (DTS) is implemented from raw data known as knowledge-based, and the rules are transformed into web application as discussed in (Refer Appendix B for Implementation of Rules-Based Technique in DTS).

4.2.1 Hardware and Software Requirements

4.2.1.1 Hardware Requirements

Table 1.4 below shows the hardware specifications for project development:

Item	Minimum Requirements	Purpose
Personal Computer (Laptop)	Intel Core 2 Duo (1.60GHz) Hard Disk - 160Gb RAM 2G	Project development and documentation

Printer	Epson Stylus TX121	Print out documentation
External Hard Disk (IDE) 500Gb	Western Digital (IDE)500Gb	Backup data and file

Table 1.5 Hardware Specification for DTS

4.2.1.2 Software Requirements

Table 1.6 below shows the software specifications for project development:

No	Software Name	Version
1	Ms Windows 7 Ultimate	Windows 7 Ultimate 32bit
2	Ms Office 2007	Office Professional
3	Ms Project 2007	Office Professional
4	Kaspersky Internet Security 2011	Professional Edition
5	Macromedia Dreamweaver MX	Version 7.0
6	2004	4.2.3
7	PHP Dev	4.0.0
	MySQL	

Table 1.6 Software Specifications for DTS

4.2.1.2.1 Ms Window 7 Ultimate

Microsoft Window 7 Ultimate has been used as Operating System (OS that will be the base for platform used) to communicate with others software. It was chosen because the environment was very familiar besides it is able to react with others development software such as Macromedia Dreamweaver MX 2004, PHP, MySQL and others.

4.2.1.2.2 Ms Office 2007

To make documentation in this project, Microsoft Office 2007 is used. Microsoft Office 2007 has many features as the interface and functions are user friendly and understandable. It is also will make documentation and presentation jobs easy and faster.

4.2.1.2.3 Ms Project 2007

Microsoft Project 2007 is used in this project to create Gantt Chart in planning phase. From the Gant Chart, it determines the specific task need to finish based on date and time. The Gantt chart is shows at **Appendix A**.

4.2.1.2.4 Kaspersky Internet Security 2011

Kaspersky Internet Security 2011 has been chosen to prevent and detect if there are any virus in the computer. It is worried if the virus can damage the data and information or maybe the whole of system.

4.2.1.2.5 Macromedia Dreamweaver MX 2004

During develop this project; Macromedia Dreamweaver MX 2004 is used to create interface for this system. It has many functions and features that can simply applied even for the beginner to use it.

4.2.1.2.6 Hypertext Preprocessor (PHP)

The language used to develop the system is PHP. PHP is an HTML-embedded scripting language. Much of its syntax is borrowed from C, Java and Perl with a couple of unique PHP-specific features thrown in. The goal of the language is to allow web developers to write dynamically generated pages quickly. PHP stand for PHP: Hypertext Preprocessor. Below is some of PHP benefits:

(i) **High Performance**

PHP is very efficient. It is faster to code and faster to execute. Using a single inexpensive server, millions of hits per day can be served.

(ii) **Built-in Libraries**

Because PHP was designed for use on the Web, it has many built-in functions for performing many useful Web-related tasks. These include generation of GIF images on-the-fly, connecting to other network services, sending email, working with cookies, generating PDF documents, etc.

(iii) **Low Cost**

PHP is free and readily available. Queries to the PHP mailing lists are often answered within minutes. Anyone may visit the numerous PHP Web site for download the complete source code that available.

(iv) **Dynamic Support**

PHP is available for many different operating systems. PHP runs on UNIX, Windows, and Macintosh OS X. PHP is designed to integrate with the free technology, Apache Web server. It is the most popular web server on the Internet.

4.2.2 Database Architecture

For this project, the most important part is database. All symptoms will be stored in the database. Dengue Tracking System database consists of two tables which are database for answer and database for symptom. Figure 2.8 shows the architecture of data connection in Dengue Tracking System.

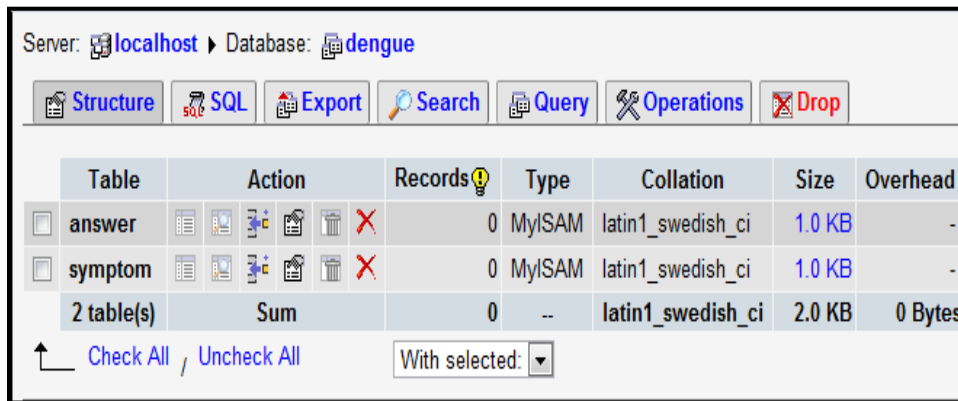


Table	Action	Records	Type	Collation	Size	Overhead
<input type="checkbox"/> answer		0	MyISAM	latin1_swedish_ci	1.0 KB	-
<input type="checkbox"/> symptom		0	MyISAM	latin1_swedish_ci	1.0 KB	-
2 table(s)	Sum	0	--	latin1_swedish_ci	2.0 KB	0 Bytes

↑ [Check All](#) / [Uncheck All](#) With selected: ▾

Figure 2.8: Data connection in Dengue Tracking System.

4.2.2.1 Connection to database

Figure 2.9 shows an example of SQL command that is implemented in DTS to connect with the database. As above, database is connected to database named 'dengue'.

```
<?php
$db_host = "localhost"; //location for MySQL database
$db_username = "root"; //Username for mysql database
$db_passwd = ""; //password for mysql database
$db_name = "dengue"; //name of the database
$conn = mysql_connect($db_host,$db_username,$db_passwd) or die(mysql_error());
mysql_select_db($db_name,$conn) or die(mysql_error());?>
```

Figure 2.9: SQL Command to connect to “dengue” database for Dengue Tracking System

4.2.3 DTS Interfaces

Figure 3.1 shows interface of the homepage for DTS. There are menus which are Home, About, DTS, and Info. All the menus will direct user its own interface.

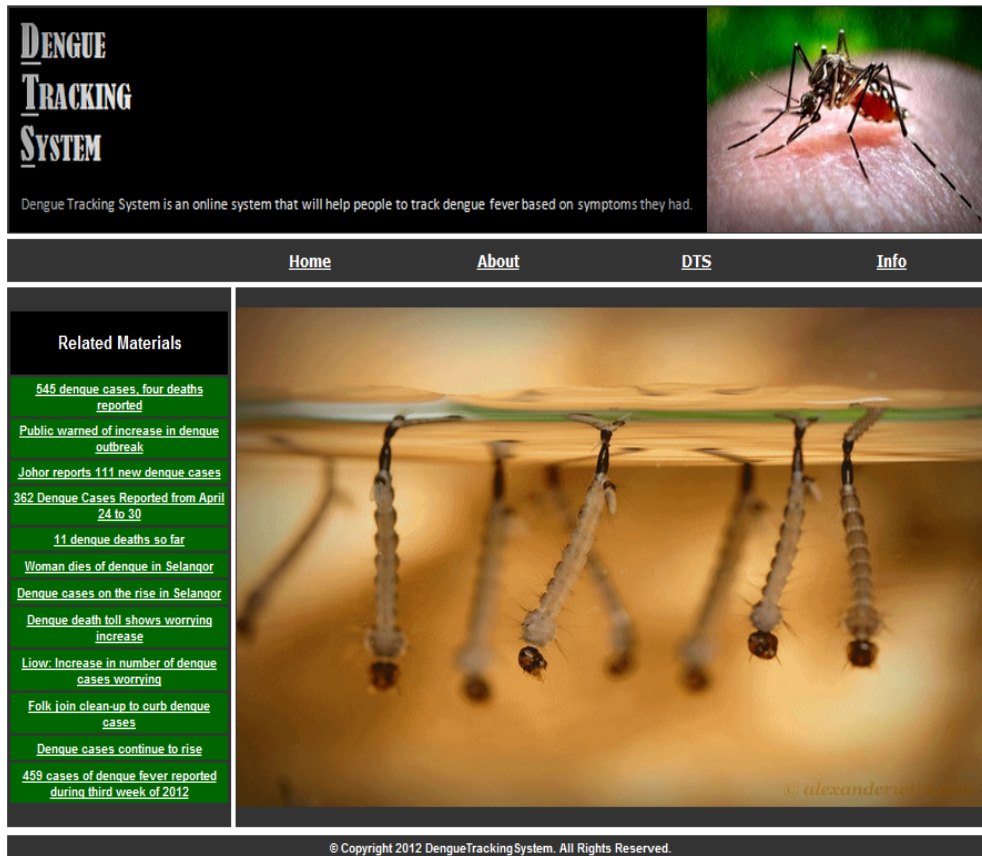


Figure 3.1: Homepage of Dengue Tracking System

Figure 3.2 shows interfaces for symptoms of Dengue Fever (DF) and Dengue Haemorrhagic Fever (DHF). User needs to tick at the checkbox provided which symptom they had. If they have no idea or not sure about the symptom, they can click on the symptom's link to check the meaning. The example of symptom's details can be referred to Figure 3.3 and Figure 3.4.

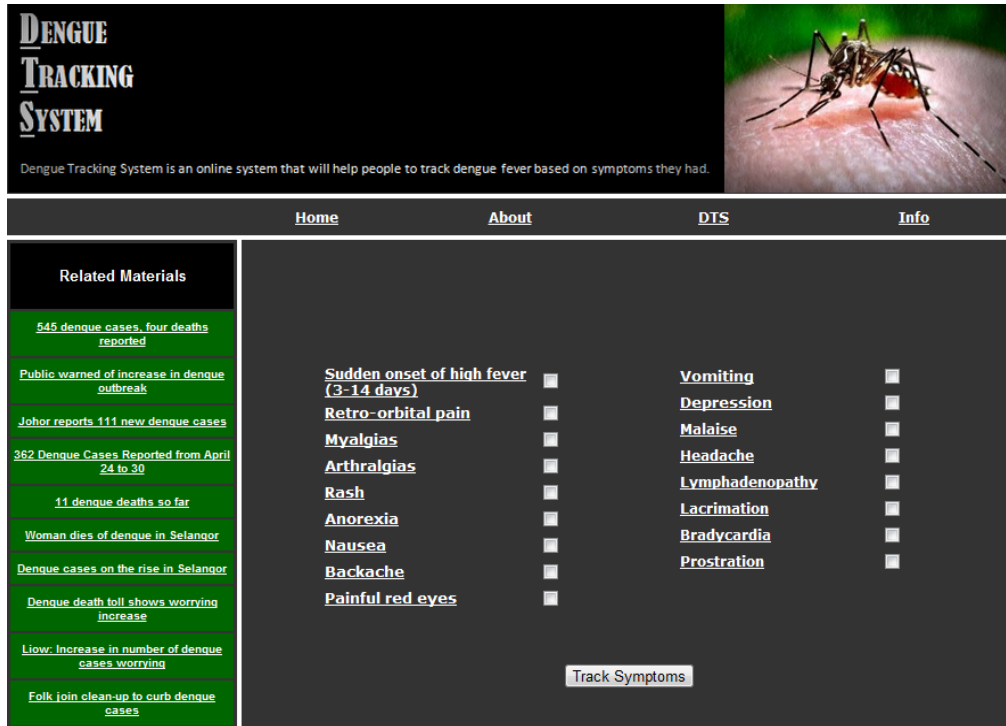


Figure 3.2: Symptoms of Dengue Fever (DF)

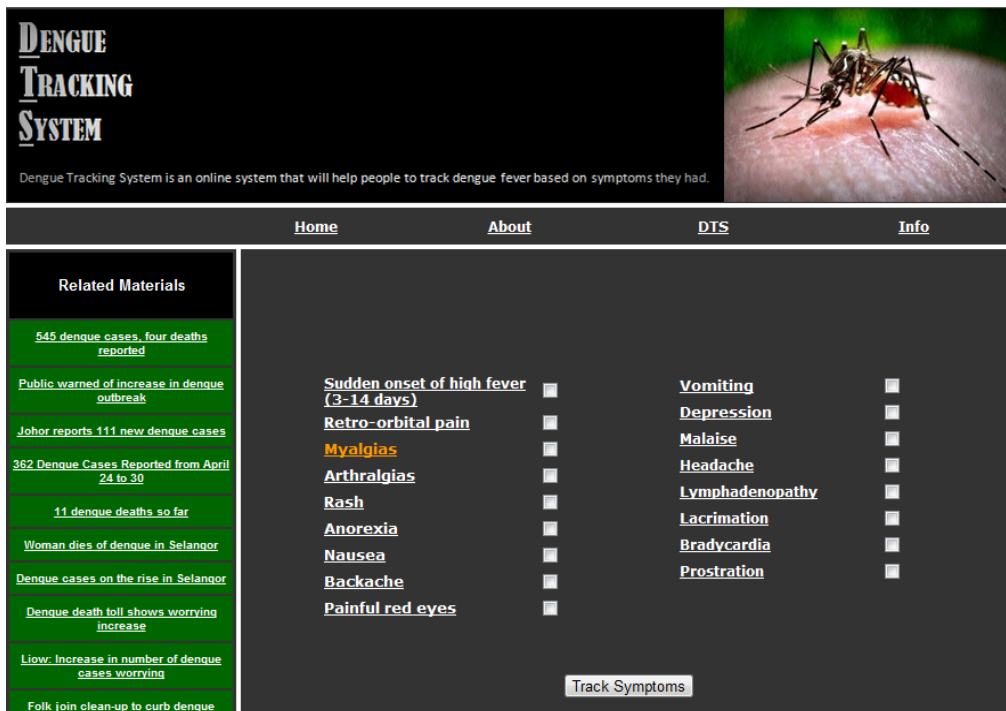


Figure 3.3: Symptom's link

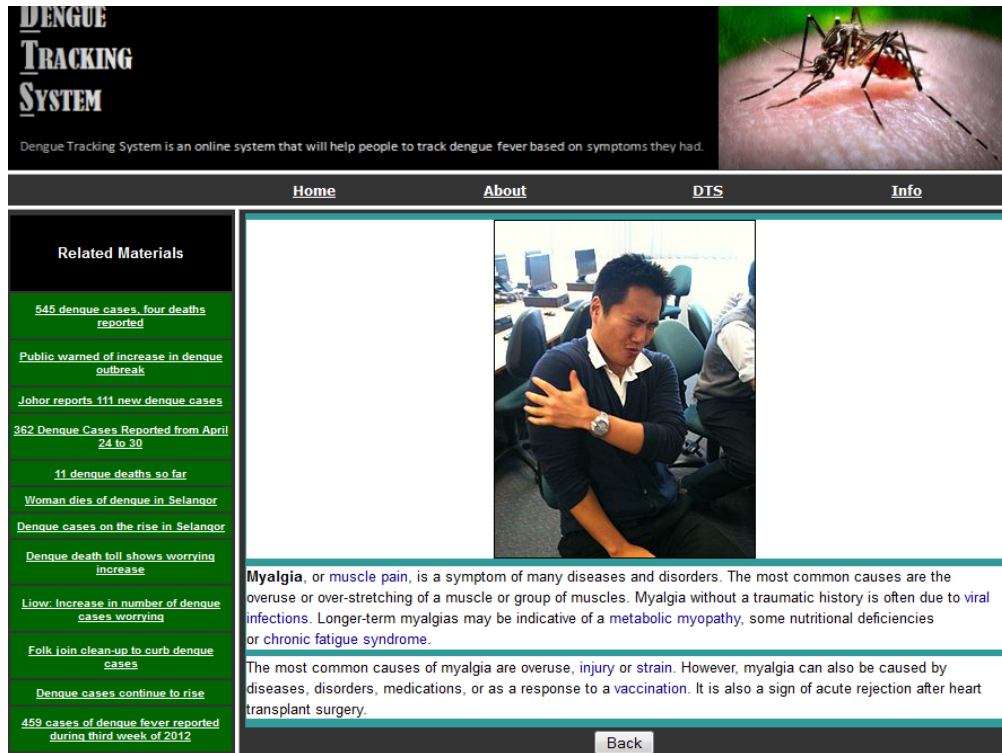


Figure 3.4: The details of symptom

Figure 3.5 shows interface for result of tracked symptoms. There is also a feedback menu that required user to make a little survey of DTS website.

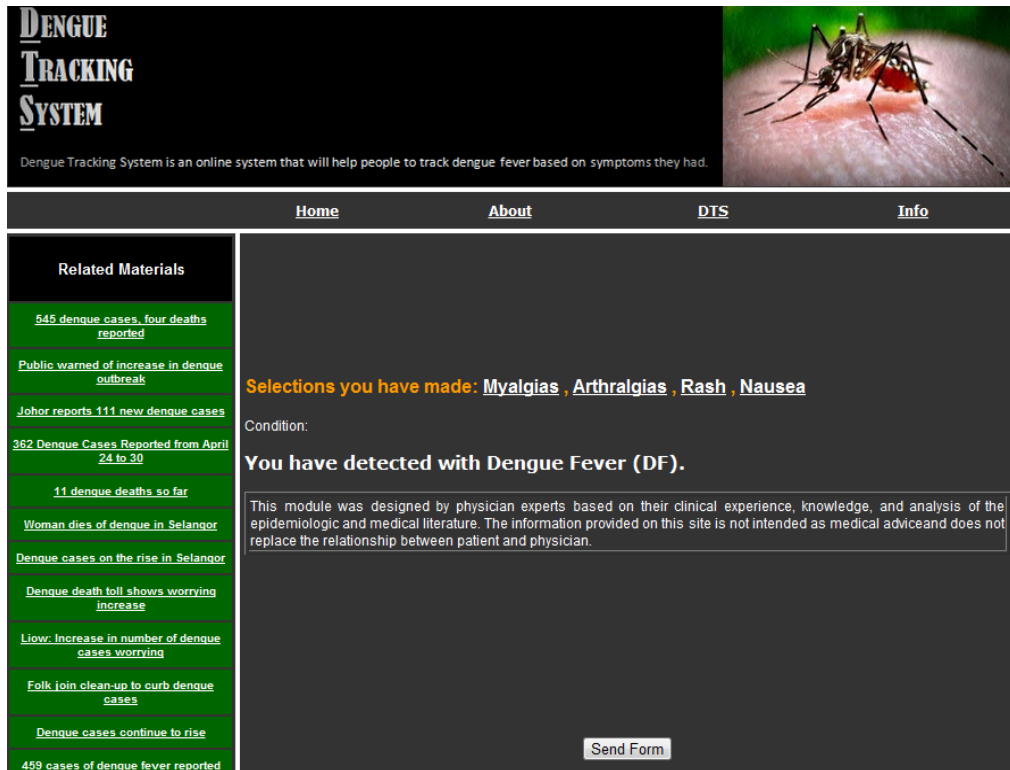



Figure 3.5: Result of tracked symptoms

Figure 3.6 shows interface for 'Related Materials'. The links provided user with the latest news about dengue in the wide world. Example of the news can be referred as below.

DENGUE TRACKING SYSTEM

Dengue Tracking System is an online system that will help people to track dengue fever based on symptoms they had.



[Home](#)
[About](#)
[DTS](#)
[Info](#)

Related Materials

- [545 dengue cases, four deaths reported](#)
- [Public warned of increase in dengue outbreak](#)
- [Johor reports 111 new dengue cases](#)
- [382 Dengue Cases Reported from April 24 to 30](#)
- [11 dengue deaths so far](#)
- [Woman dies of dengue in Selangor](#)
- [Dengue cases on the rise in Selangor](#)
- [Dengue death toll shows worrying increase](#)
- [Low: Increase in number of dengue cases worrying](#)
- [Folk join clean-up to curb dengue cases](#)
- [Dengue cases continue to rise](#)
- [459 cases of dengue fever reported during third week of 2012](#)

Woman dies of dengue in Selangor

PUTRAJAYA: A 39-year-old woman died of dengue fever in the week beginning Feb 5 when 513 cases of the disease were reported in the country, down from 545 cases involving four deaths in the week before, according to the Director-General of Health Datuk Seri Dr Hasan Abdul Rahman.

He said in a statement today that the woman, a technician in a communications company, was from Selangor.

"Her house was found to have a high incidence of Aedes mosquito breeding, at 2.9 per cent. As such, the local community conducted a gotong-royong clean-up of their area to destroy the Aedes breeding grounds," he said.

Dr Hasan said there was a rise in the number of dengue cases in five states in the week in question compared to the previous week, namely Terengganu (from 19 to 46), Perak (36 to 39), Perlis (three to five), Sabah (10 to 12) and Melaka (14 to 15).

A total of 2,926 cases were reported between Jan 1 and Feb 11, up by 79 cases compared to the corresponding period last year, he added.

Dr Hasan advised the people to ensure that their houses and surrounding areas are free from Aedes mosquito breeding grounds.

"The ministry conducts regular enforcement activities and occupants of houses found to be breeding grounds of the Aedes larvae can be fined up to RM500 under the Destruction of Disease-Bearing Insects Act 1975," he said.

-- BERNAMA

Source: <http://www.nst.com.my/latest/woman-dies-of-dengue-in-selangor-147492?localInksEnabled=false#vz1mXf2tBL>

Figure 3.6: Interface of 'Related Materials'

CHAPTER 5

CONCLUSION

5.1 Introduction

There are five chapters in this thesis which are Introduction, followed by Literature Review, Methodology, Implementation and finally Conclusion of the entire system. Each chapter describes the development process of Dengue Tracking System (DTS).

The purpose of this study is to develop a prototype web-based application. The objective of the system is to develop algorithm to identify Dengue Fever (DF) base on the symptoms using rule based.

Dengue Tracking System (DTS) has been developed using Adobe Dreamweaver CS3, and PHP for interface design and programming as it provides a visual development environment for building application rapidly.

Iterative Development Model has been chosen to be the guideline in implementation of Dengue Tracking System (DTS). There are five phases in this development which are Project Initiation and Planning, Analysis, System Design, Implementation, and Testing.

Hopefully, this system will help people to give them an idea whether they are detected by Dengue Fever or not. This application is an online application bases system that allowed user to access in everywhere at home, office or others, and it can be used by everyone.

5.2 Result and Discussion

This section briefly discusses the expected results of the proposed project and following by discussion.

5.2.1 Observation on Weaknesses and Strengths

An expected strengths and weaknesses of to-be-developed system can be made. For the expected weaknesses, improvement can be made to ensure system will runs perfectly. However, good knowledge and understanding about the flow of the system will help developer to develop and to make an improvement to the system. The following are discussed as below.

5.2.1.1 Strengths

5.2.1.1.1 Easy and Fast

The system is expected to be used in easy way as users do not have to sign up to be a member first before the system can be used. So that, users could get the result faster as person's health is a very important thing.

5.2.1.1.2 User Friendly Interface

The system will provide a simple and interesting interface for the user. Apart from that, the system is expected to be more user-friendly to ensure user will use the system often.

5.2.1.2 Weaknesses

5.2.1.2.1 Limited Disease

As a new system, the infant's illnesses are limited to Dengue Fever (DF) and Dengue Haemorrhagic Fever (DHF) only. It is hoped that the system will overcome that problem and will have many attractive features in the future in order to satisfy user's requirements.

5.2.2 Discussion

This part will describe about the discussion that will be found in the developing process. The discussions that will be described are:

I. Skill

All related skills are needed in order to succeed in developing the Dengue Tracking System (DTS). This is proven when doing research to ensure this system will satisfy user's requirements.

II. Project Planning

Planning is a most critical part. The developer must give more attention in the beginning of the project. It is to make sure all processes can be done in the right time.

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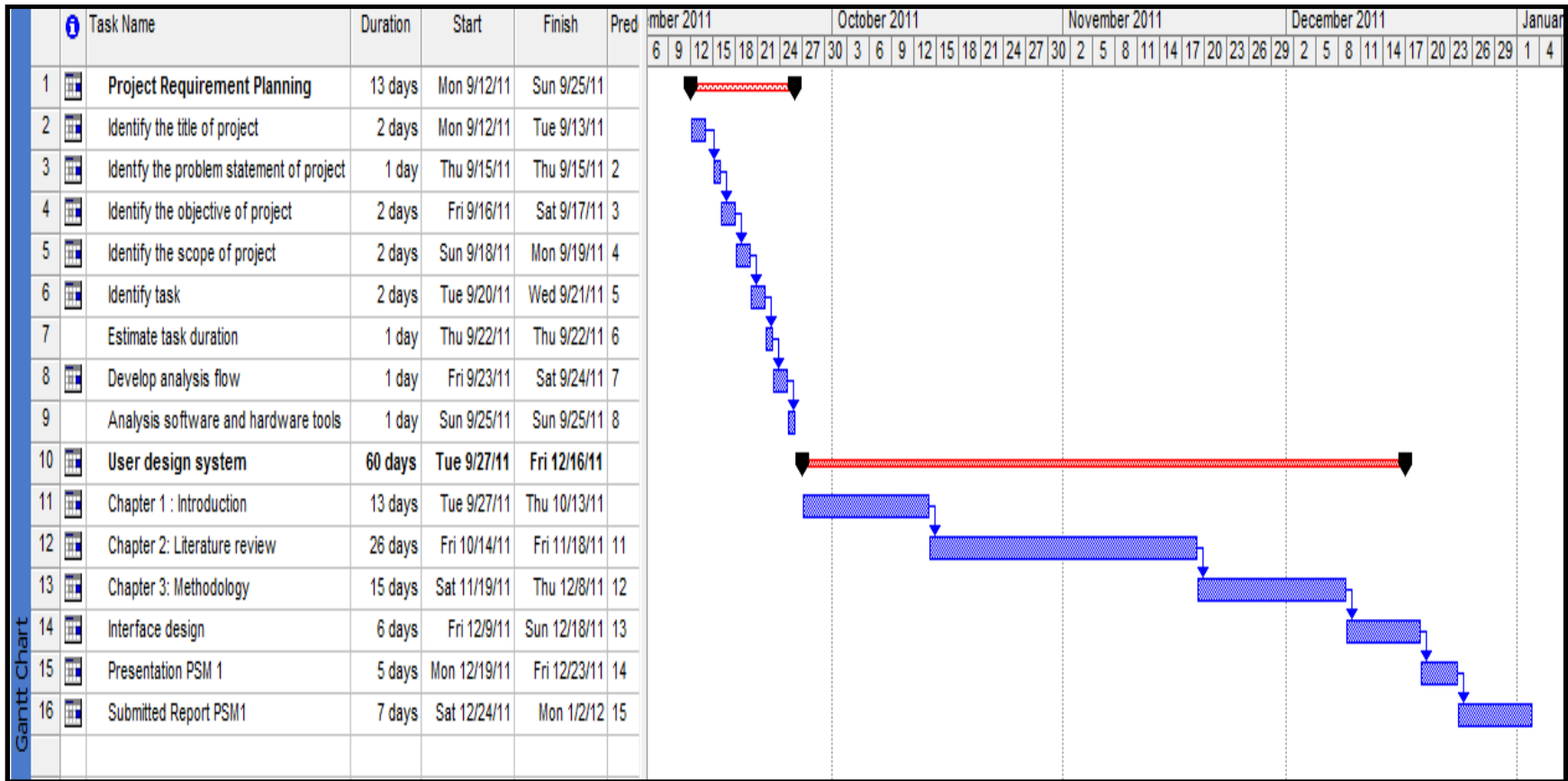
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APPENDIX A

PROJECT PLANNING

(Gantt chart)



Gantt Chart

APPENDIX B

RULE-BASED ALGORITHM

[1]

Rule_1
IF symptom Sudden onset of high fever (3-14 days) is checked
THEN the answers is not Dengue Fever

Rule_2
IF symptom Retro-orbital pain is checked
THEN the answers is not Dengue Fever

Rule_3
IF symptom Myalgias is checked
THEN the answers is not Dengue Fever

Rule_4
IF symptom Arthralgias is checked
THEN the answers is not Dengue Fever

Rule_5
IF symptom Rash is checked
THEN the answers is not Dengue Fever

Rule_6
IF symptom Anorexia is checked
THEN the answers is not Dengue Fever

Rule_7
IF symptom Nausea is checked
THEN the answers is not Dengue Fever

Rule_8
IF symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_9
IF symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_10
IF symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_11
IF symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_12
IF symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_13
IF symptom Headache is checked

THEN the answers is not Dengue Fever

Rule_14
IF symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_15
IF symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_16
IF symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_17
IF symptom Prostration is checked
THEN the answers is not Dengue Fever

[2]

Rule_18
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
THEN the answers is not Dengue Fever

Rule_19
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
THEN the answers is not Dengue Fever

Rule_20
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthralgias is checked
THEN the answers is not Dengue Fever

Rule_21
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
THEN the answers is not Dengue Fever

Rule_22
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
THEN the answers is not Dengue Fever

Rule_23

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
THEN the answers is not Dengue Fever

Rule_24

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_25

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_26

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_27

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_28

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_29

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_30

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_31

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_32

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_33

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_34

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
THEN the answers is not Dengue Fever

Rule_35

IF symptom Retro-orbital pain is checked
AND symptom Arthralgias is checked
THEN the answers is not Dengue Fever

Rule_36

IF symptom Retro-orbital pain is checked
AND symptom Rash is checked
THEN the answers is not Dengue Fever

Rule_37

IF symptom Retro-orbital pain is checked
AND symptom Anorexia is checked
THEN the answers is not Dengue Fever

Rule_38

IF symptom Retro-orbital pain is checked
AND symptom Nausea is checked
THEN the answers is not Dengue Fever

Rule_39

IF symptom Retro-orbital pain is checked
AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_40

IF symptom Retro-orbital pain is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_41

IF symptom Retro-orbital pain is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_42

IF symptom Retro-orbital pain is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_43

IF symptom Retro-orbital pain is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_44

IF symptom Retro-orbital pain is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_45

IF symptom Retro-orbital pain is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_46

IF symptom Retro-orbital pain is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_47

IF symptom Retro-orbital pain is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_48

IF symptom Retro-orbital pain is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_49

IF symptom Myalgias is checked
AND symptom Arthralgias is checked
THEN the answers is not Dengue Fever

Rule_50

IF symptom Myalgias is checked
AND symptom Rash is checked
THEN the answers is not Dengue Fever

Rule_51

IF symptom Myalgias is checked
AND symptom Anorexia is checked
THEN the answers is not Dengue Fever

Rule_52

IF symptom Myalgias is checked
AND symptom Nausea is checked
THEN the answers is not Dengue Fever

Rule_53

IF symptom Myalgias is checked
AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_54

IF symptom Myalgias is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_55

IF symptom Myalgias is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_56

IF symptom Myalgias is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_57

IF symptom Myalgias is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_58

IF symptom Myalgias is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_59

IF symptom Myalgias is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_60

IF symptom Myalgias is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_61

IF symptom Myalgias is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_62

IF symptom Myalgias is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_63

IF symptom Arthralgias is checked

AND symptom Rash is checked
THEN the answers is not Dengue Fever

Rule_64

IF symptom Arthralgias is checked
AND symptom Anorexia is checked
THEN the answers is not Dengue Fever

Rule_65

IF symptom Arthralgias is checked
AND symptom Nausea is checked
THEN the answers is not Dengue Fever

Rule_66

IF symptom Arthralgias is checked
AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_67

IF symptom Arthralgias is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_68

IF symptom Arthralgias is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_69

IF symptom Arthralgias is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_70

IF symptom Arthralgias is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_71

IF symptom Arthralgias is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_72

IF symptom Arthralgias is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_73

IF symptom Arthralgias is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_74

IF symptom Arthralgias is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_75

IF symptom Arthralgias is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_76

IF symptom Rash is checked
AND symptom Anorexia is checked
THEN the answers is not Dengue Fever

Rule_77

IF symptom Rash is checked
AND symptom Nausea is checked
THEN the answers is not Dengue Fever

Rule_78

IF symptom Rash is checked
AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_79

IF symptom Rash is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_80

IF symptom Rash is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_81

IF symptom Rash is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_82

IF symptom Rash is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_83

IF symptom Rash is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_84

IF symptom Rash is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_85
IF symptom Rash is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_86
IF symptom Rash is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_87
IF symptom Rash is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_88
IF symptom Anorexia is checked
AND symptom Nausea is checked
THEN the answers is not Dengue Fever

Rule_89
IF symptom Anorexia is checked
AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_90
IF symptom Anorexia is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_91
IF symptom Anorexia is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_92
IF symptom Anorexia is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_93
IF symptom Anorexia is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_94
IF symptom Anorexia is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_95
IF symptom Anorexia is checked

AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_96
IF symptom Anorexia is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_97
IF symptom Anorexia is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_98
IF symptom Anorexia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_99
IF symptom Nausea is checked
AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_100
IF symptom Nausea is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_101
IF symptom Nausea is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_102
IF symptom Nausea is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_103
IF symptom Nausea is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_104
IF symptom Nausea is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_105
IF symptom Nausea is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_106

IF symptom Nausea is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_107

IF symptom Nausea is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_108

IF symptom Nausea is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_109

IF symptom Backache is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_110

IF symptom Backache is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_111

IF symptom Backache is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_112

IF symptom Backache is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_113

IF symptom Backache is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_114

IF symptom Backache is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_115

IF symptom Backache is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_116

IF symptom Backache is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_117

IF symptom Backache is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_118

IF symptom Painful red eyes is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_119

IF symptom Painful red eyes is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_120

IF symptom Painful red eyes is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_121

IF symptom Painful red eyes is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_122

IF symptom Painful red eyes is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_123

IF symptom Painful red eyes is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_124

IF symptom Painful red eyes is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_125

IF symptom Painful red eyes is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_126

IF symptom Vomiting is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_127

IF symptom Vomiting is checked
AND symptom Malaise is checked

THEN the answers is not Dengue Fever

Rule_128

IF symptom Vomiting is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_129

IF symptom Vomiting is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_130

IF symptom Vomiting is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_131

IF symptom Vomiting is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_132

IF symptom Vomiting is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_133

IF symptom Depression is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_134

IF symptom Depression is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_135

IF symptom Depression is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_136

IF symptom Depression is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_137

IF symptom Depression is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_138

IF symptom Depression is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_139

IF symptom Malaise is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_140

IF symptom Malaise is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_141

IF symptom Malaise is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_142

IF symptom Malaise is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_143

IF symptom Malaise is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_144

IF symptom Headache is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_145

IF symptom Headache is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_146

IF symptom Headache is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_147

IF symptom Headache is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_148

IF symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_149
IF symptom Lymphadenopathy is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_150
IF symptom Lymphadenopathy is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_151
IF symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_152
IF symptom Lacrimation is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_153
IF symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

[3]

Rule_154
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
THEN the answers is Dengue Fever

Rule_155
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Arthragias is checked
THEN the answers is Dengue Fever

Rule_156
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Rash is checked
THEN the answers is Dengue Fever

Rule_157
IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Retro-orbital pain is checked
AND symptom Anorexia is checked
THEN the answers is Dengue Fever

Rule_158
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Nausea is checked
THEN the answers is Dengue Fever

Rule_159
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Backache is checked
THEN the answers is Dengue Fever

Rule_160
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Painful red eyes is checked
THEN the answers is Dengue Fever

Rule_161
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Vomiting is checked
THEN the answers is Dengue Fever

Rule_162
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_163
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_164
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_165
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_166
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_167
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_168
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_169
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Arthragias is checked
THEN the answers is Dengue Fever

Rule_170
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Rash is checked
THEN the answers is Dengue Fever

Rule_171
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Anorexia is checked
THEN the answers is Dengue Fever

Rule_172
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked

AND symptom Nausea is checked
THEN the answers is Dengue Fever

Rule_173
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Backache is checked
THEN the answers is Dengue Fever

Rule_174
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Painful red eyes is checked
THEN the answers is Dengue Fever

Rule_175
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Vomiting is checked
THEN the answers is Dengue Fever

Rule_176
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_177
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_178
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_179
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_180

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_181

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_182

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_183

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthragias is checked
AND symptom Rash is checked
THEN the answers is Dengue Fever

Rule_184

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthragias is checked
AND symptom Anorexia is checked
THEN the answers is Dengue Fever

Rule_185

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthragias is checked
AND symptom Nausea is checked
THEN the answers is Dengue Fever

Rule_186

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthragias is checked
AND symptom Backache is checked
THEN the answers is Dengue Fever

Rule_187

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthragias is checked
AND symptom Painful red eyes is checked

THEN the answers is Dengue Fever

Rule_188

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthragias is checked
AND symptom Vomiting is checked
THEN the answers is Dengue Fever

Rule_189

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthragias is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_190

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthragias is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_191

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthragias is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_192

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthragias is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_193

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthragias is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_194

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthragias is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_195

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthragias is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_196

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
THEN the answers is Dengue Fever

Rule_197

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Nausea is checked
THEN the answers is Dengue Fever

Rule_198

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Backache is checked
THEN the answers is Dengue Fever

Rule_199

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Painful red eyes is checked
THEN the answers is Dengue Fever

Rule_200

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Vomiting is checked
THEN the answers is Dengue Fever

Rule_201

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_202

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Malaise is checked

THEN the answers is Dengue Fever

Rule_203

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_204

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_205

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_206

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_207

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_208

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
THEN the answers is Dengue Fever

Rule_209

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Backache is checked
THEN the answers is Dengue Fever

Rule_210

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Painful red eyes is checked
THEN the answers is Dengue Fever

Rule_211

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Vomiting is checked
THEN the answers is Dengue Fever

Rule_212

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_213

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_214

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_215

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_216

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_217

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Bradycardia is checked

THEN the answers is Dengue Fever

Rule_218

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_219

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Backache is checked
THEN the answers is Dengue Fever

Rule_220

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Painful red eyes is checked
THEN the answers is Dengue Fever

Rule_221

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Vomiting is checked
THEN the answers is Dengue Fever

Rule_222

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_223

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_224

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_225

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_226

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_227

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_228

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_229

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
THEN the answers is Dengue Fever

Rule_230

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Vomiting is checked
THEN the answers is Dengue Fever

Rule_231

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_232

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Malaise is checked

THEN the answers is Dengue Fever

Rule_233

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_234

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_235

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_236

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_237

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_238

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
THEN the answers is Dengue Fever

Rule_239

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Painful red eyes is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_240

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Painful red eyes is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_241

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Painful red eyes is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_242

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Painful red eyes is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_243

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Painful red eyes is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_244

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Painful red eyes is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_245

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Painful red eyes is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_246

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_247

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Vomiting is checked
AND symptom Malaise is checked

THEN the answers is Dengue Fever

Rule_248

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Vomiting is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_249

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Vomiting is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_250

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Vomiting is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_251

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Vomiting is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_252

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Vomiting is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_253

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Depression is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_254

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Depression is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_255

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Depression is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_256

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Depression is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_257

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Depression is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_258

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Depression is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_259

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Malaise is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_260

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Malaise is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_261

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Malaise is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_262

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Malaise is checked
AND symptom Bradycardia is checked

THEN the answers is Dengue Fever

Rule_263

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Malaise is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_264

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Headache is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_265

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Headache is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_266

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Headache is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_267

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Headache is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_268

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_269

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Lymphadenopathy is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_270

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Lymphadenopathy is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_271

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_272

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Lacrimation is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_273

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_274

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthragias is checked
THEN the answers is not Dengue Fever

Rule_275

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Rash is checked
THEN the answers is not Dengue Fever

Rule_276

IF symptom Retro-orbital pain) is checked
AND symptom Myalgias is checked
AND symptom Anorexia is checked
THEN the answers is not Dengue Fever

Rule_277

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Nausea is checked
THEN the answers is not Dengue Fever

Rule_278

IF symptom Retro-orbital pain is checked

AND symptom Myalgias is checked
AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_279

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_280

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_281

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_282

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_283

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_284

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_285

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_286

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_287

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_288

IF symptom Retro-orbital pain is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
THEN the answers is not Dengue Fever

Rule_289

IF symptom Retro-orbital pain) is checked
AND symptom Arthralgias is checked
AND symptom Anorexia is checked
THEN the answers is not Dengue Fever

Rule_290

IF symptom Retro-orbital pain is checked
AND symptom Arthralgias is checked
AND symptom Nausea is checked
THEN the answers is not Dengue Fever

Rule_291

IF symptom Retro-orbital pain is checked
AND symptom Arthralgias is checked
AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_292

IF symptom Retro-orbital pain is checked
AND symptom Arthralgias is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_293

IF symptom Retro-orbital pain is checked
AND symptom Arthralgias is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_294

IF symptom Retro-orbital pain is checked
AND symptom Arthralgias is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_295

IF symptom Retro-orbital pain is checked
AND symptom Arthralgias is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_296

IF symptom Retro-orbital pain is checked
AND symptom Arthralgias is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_297

IF symptom Retro-orbital pain is checked
AND symptom Arthralgias is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_298

IF symptom Retro-orbital pain is checked
AND symptom Arthralgias is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_299

IF symptom Retro-orbital pain is checked
AND symptom Arthralgias is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_300

IF symptom Retro-orbital pain is checked
AND symptom Arthralgias is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_301

IF symptom Retro-orbital pain) is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
THEN the answers is not Dengue Fever

Rule_302

IF symptom Retro-orbital pain is checked
AND symptom Rash is checked
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THEN the answers is not Dengue Fever

Rule_303

IF symptom Retro-orbital pain is checked
AND symptom Rash is checked
AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_304

IF symptom Retro-orbital pain is checked
AND symptom Rash is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_305

IF symptom Retro-orbital pain is checked
AND symptom Rash is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_306

IF symptom Retro-orbital pain is checked
AND symptom Rash is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_307

IF symptom Retro-orbital pain is checked
AND symptom Rash is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_308

IF symptom Retro-orbital pain is checked
AND symptom Rash is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_309

IF symptom Retro-orbital pain is checked
AND symptom Rash is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_310

IF symptom Retro-orbital pain is checked
AND symptom Rash is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_311

IF symptom Retro-orbital pain is checked
AND symptom Rash is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_312

IF symptom Retro-orbital pain is checked
AND symptom Rash is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_313

IF symptom Retro-orbital pain is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked

THEN the answers is not Dengue Fever

Rule_314

IF symptom Retro-orbital pain is checked
AND symptom Anorexia is checked
AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_315

IF symptom Retro-orbital pain is checked
AND symptom Anorexia is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_316

IF symptom Retro-orbital pain is checked
AND symptom Anorexia is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_317

IF symptom Retro-orbital pain is checked
AND symptom Anorexia is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_318

IF symptom Retro-orbital pain is checked
AND symptom Anorexia is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_319

IF symptom Retro-orbital pain is checked
AND symptom Anorexia is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_320

IF symptom Retro-orbital pain is checked
AND symptom Anorexia is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_321

IF symptom Retro-orbital pain is checked
AND symptom Anorexia is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_322

IF symptom Retro-orbital pain is checked
AND symptom Anorexia is checked

AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_323

IF symptom Retro-orbital pain is checked
AND symptom Anorexia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_324

IF symptom Retro-orbital pain is checked
AND symptom Nausea is checked
AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_325

IF symptom Retro-orbital pain is checked
AND symptom Nausea is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_326

IF symptom Retro-orbital pain is checked
AND symptom Nausea is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_327

IF symptom Retro-orbital pain is checked
AND symptom Nausea is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_328

IF symptom Retro-orbital pain is checked
AND symptom Nausea is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_329

IF symptom Retro-orbital pain is checked
AND symptom Nausea is checked
AND symptom Headache is checked
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Rule_330

IF symptom Retro-orbital pain is checked
AND symptom Nausea is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_331

IF symptom Retro-orbital pain is checked

AND symptom Nausea is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_332

IF symptom Retro-orbital pain is checked
AND symptom Nausea is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_333

IF symptom Retro-orbital pain is checked
AND symptom Nausea is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_334

IF symptom Retro-orbital pain is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_335

IF symptom Retro-orbital pain is checked
AND symptom Backache is checked
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Rule_336

IF symptom Retro-orbital pain is checked
AND symptom Backache is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_337

IF symptom Retro-orbital pain is checked
AND symptom Backache is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_338

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AND symptom Backache is checked
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THEN the answers is not Dengue Fever

Rule_339

IF symptom Retro-orbital pain is checked
AND symptom Backache is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_340

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AND symptom Backache is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_341

IF symptom Retro-orbital pain is checked
AND symptom Backache is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_342

IF symptom Retro-orbital pain is checked
AND symptom Backache is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_343

IF symptom Retro-orbital pain is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_344

IF symptom Retro-orbital pain is checked
AND symptom Painful red eyes is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_345

IF symptom Retro-orbital pain is checked
AND symptom Painful red eyes is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_346

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Rule_347

IF symptom Retro-orbital pain is checked
AND symptom Painful red eyes is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_348

IF symptom Retro-orbital pain is checked
AND symptom Painful red eyes is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_349

IF symptom Retro-orbital pain is checked
AND symptom Painful red eyes is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_350

IF symptom Retro-orbital pain is checked
AND symptom Painful red eyes is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_351

IF symptom Retro-orbital pain is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_352

IF symptom Retro-orbital pain is checked
AND symptom Vomiting is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_353

IF symptom Retro-orbital pain is checked
AND symptom Vomiting is checked
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THEN the answers is not Dengue Fever

Rule_354

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AND symptom Lymphadenopathy is checked
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Rule_356

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Rule_357

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Rule_358

IF symptom Retro-orbital pain is checked
AND symptom Depression is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_359

IF symptom Retro-orbital pain is checked
AND symptom Depression is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_360

IF symptom Retro-orbital pain is checked
AND symptom Depression is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_361

IF symptom Retro-orbital pain is checked
AND symptom Depression is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_362

IF symptom Retro-orbital pain is checked
AND symptom Depression is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_363

IF symptom Retro-orbital pain is checked
AND symptom Depression is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_364

IF symptom Retro-orbital pain is checked
AND symptom Malaise is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_365

IF symptom Retro-orbital pain is checked
AND symptom Malaise is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_366

IF symptom Retro-orbital pain is checked
AND symptom Malaise is checked
AND symptom Lacrimation is checked

THEN the answers is not Dengue Fever

Rule_367

IF symptom Retro-orbital pain is checked
AND symptom Malaise is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_368

IF symptom Retro-orbital pain is checked
AND symptom Malaise is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_369

IF symptom Retro-orbital pain is checked
AND symptom Headache is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_370

IF symptom Retro-orbital pain is checked
AND symptom Headache is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_371

IF symptom Retro-orbital pain is checked
AND symptom Headache is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_372

IF symptom Retro-orbital pain is checked
AND symptom Headache is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_373

IF symptom Retro-orbital pain is checked
AND symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_374

IF symptom Retro-orbital pain is checked
AND symptom Lymphadenopathy is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_375

IF symptom Retro-orbital pain is checked
AND symptom Lymphadenopathy is checked

AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_376

IF symptom Retro-orbital pain is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_377

IF symptom Retro-orbital pain is checked
AND symptom Lacrimation is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_378

IF symptom Retro-orbital pain is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_379

IF symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
THEN the answers is not Dengue Fever

Rule_380

IF symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Anorexia is checked
THEN the answers is not Dengue Fever

Rule_381

IF symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Nausea is checked
THEN the answers is not Dengue Fever

Rule_382

IF symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_383

IF symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_384

IF symptom Myalgias is checked

AND symptom Arthralgias is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_385

IF symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_386

IF symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_387

IF symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_388

IF symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Lymphadenopathy is checked
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Rule_389

IF symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_390

IF symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_391

IF symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_392

IF symptom Myalgias is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
THEN the answers is not Dengue Fever

Rule_393

IF symptom Myalgias is checked
AND symptom Rash is checked
AND symptom Nausea is checked
THEN the answers is not Dengue Fever

Rule_394

IF symptom Myalgias is checked
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AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_395

IF symptom Myalgias is checked
AND symptom Rash is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_396

IF symptom Myalgias is checked
AND symptom Rash is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_397

IF symptom Myalgias is checked
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AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_398

IF symptom Myalgias is checked
AND symptom Rash is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_399

IF symptom Myalgias is checked
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AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_400

IF symptom Myalgias is checked
AND symptom Rash is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_401

IF symptom Myalgias is checked
AND symptom Rash is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_402

IF symptom Myalgias is checked
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AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_403

IF symptom Myalgias is checked
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AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_404

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AND symptom Anorexia is checked
AND symptom Nausea is checked
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Rule_405

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AND symptom Anorexia is checked
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Rule_406

IF symptom Myalgias is checked
AND symptom Anorexia is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_407

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Rule_408

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Rule_413

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Rule_414

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Rule_415

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Rule_416

IF symptom Myalgias is checked
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THEN the answers is not Dengue Fever

Rule_417

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Rule_418

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Rule_419

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Rule_420

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Rule_421

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Rule_422

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Rule_423

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Rule_424

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Rule_425

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Rule_426

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Rule_427

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Rule_428

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Rule_429

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Rule_435

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AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_436

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THEN the answers is not Dengue Fever

Rule_437

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AND symptom Headache is checked
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Rule_438

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Rule_440

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Rule_441

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AND symptom Painful red eyes is checked
AND symptom Prostration is checked
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Rule_442

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AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_443

IF symptom Myalgias is checked
AND symptom Vomiting checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_444

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Rule_449

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AND symptom Depression checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_450

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Rule_451

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Rule_452

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Rule_453

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Rule_454

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Rule_458

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AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_459

IF symptom Myalgias is checked
AND symptom Malaise is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_460

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AND symptom Headache is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_461

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AND symptom Lacrimation is checked
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Rule_462

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AND symptom Bradycardia is checked
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Rule_463

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AND symptom Prostration is checked
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Rule_464

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AND symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_465

IF symptom Myalgias is checked
AND symptom Lymphadenopathy is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_466

IF symptom Myalgias is checked
AND symptom Lymphadenopathy is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_467

IF symptom Myalgias is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_468

IF symptom Myalgias is checked
AND symptom Lacrimation is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_469

IF symptom Myalgias is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_470

IF symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
THEN the answers is not Dengue Fever

Rule_471

IF symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Nausea is checked
THEN the answers is not Dengue Fever

Rule_472

IF symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Backache is checked

THEN the answers is not Dengue Fever

Rule_473

IF symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_474

IF symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_475

IF symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_476

IF symptom Arthralgias is checked
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AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_477

IF symptom Arthralgias is checked
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AND symptom Headache is checked
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IF symptom Arthralgias is checked
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AND symptom Lymphadenopathy is checked
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IF symptom Arthralgias is checked
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AND symptom Lacrimation is checked
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Rule_480

IF symptom Arthralgias is checked
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AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_481

IF symptom Arthralgias is checked
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AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_482

IF symptom Arthralgias is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
THEN the answers is not Dengue Fever

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IF symptom Arthralgias is checked
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AND symptom Backache is checked
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IF symptom Arthralgias is checked
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AND symptom Painful red eyes is checked
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IF symptom Arthralgias is checked
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IF symptom Arthralgias is checked
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IF symptom Arthralgias is checked

AND symptom Anorexia is checked
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IF symptom Arthralgias is checked
AND symptom Anorexia is checked
AND symptom Bradycardia is checked
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IF symptom Arthralgias is checked
AND symptom Anorexia is checked
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IF symptom Arthralgias is checked
AND symptom Nausea is checked
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IF symptom Arthralgias is checked
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Rule_540

IF symptom Arthralgias is checked
AND symptom Headache is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_541

IF symptom Arthralgias is checked
AND symptom Headache is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_542

IF symptom Arthralgias is checked
AND symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_543

IF symptom Arthralgias is checked

AND symptom Lymphadenopathy is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_544

IF symptom Arthralgias is checked
AND symptom Lymphadenopathy is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_545

IF symptom Arthralgias is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_546

IF symptom Arthralgias is checked
AND symptom Lacrimation is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_547

IF symptom Arthralgias is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_548

IF symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
THEN the answers is not Dengue Fever

Rule_549

IF symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_550

IF symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_551

IF symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Vomiting is checked
THEN the answers is not Dengue Fever

Rule_552

IF symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_553

IF symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_554

IF symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_555

IF symptom Rash is checked
AND symptom Anorexia is checked
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THEN the answers is not Dengue Fever

Rule_556

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Rule_557

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THEN the answers is not Dengue Fever

Rule_558

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THEN the answers is not Dengue Fever

Rule_559

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Rule_560

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AND symptom Painful red eyes is checked
THEN the answers is not Dengue Fever

Rule_561

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Rule_562

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Rule_563

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Rule_564

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Rule_565

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Rule_566

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Rule_567

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Rule_568

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Rule_569

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Rule_570

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Rule_614

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AND symptom Backache is checked
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Rule_615

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Rule_619

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THEN the answers is not Dengue Fever

Rule_727

IF symptom Backache is checked
AND symptom Vomiting is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_728

IF symptom Backache is checked
AND symptom Vomiting is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_729

IF symptom Backache is checked
AND symptom Depression is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_730

IF symptom Backache is checked
AND symptom Depression is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_731

IF symptom Backache is checked
AND symptom Depression is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_732

IF symptom Backache is checked
AND symptom Depression is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_733

IF symptom Backache is checked
AND symptom Depression is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_734

IF symptom Backache is checked
AND symptom Depression is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_735

IF symptom Backache is checked
AND symptom Malaise is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_736

IF symptom Backache is checked
AND symptom Malaise is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_737

IF symptom Backache is checked
AND symptom Malaise is checked
AND symptom Lacrimation is checked

THEN the answers is not Dengue Fever

Rule_738

IF symptom Backache is checked
AND symptom Malaise is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_739

IF symptom Backache is checked
AND symptom Malaise is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_740

IF symptom Backache is checked
AND symptom Headache is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_741

IF symptom Backache is checked
AND symptom Headache is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_742

IF symptom Backache is checked
AND symptom Headache is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_743

IF symptom Backache is checked
AND symptom Headache is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_744

IF symptom Backache is checked
AND symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_745

IF symptom Backache is checked
AND symptom Lymphadenopathy is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_746

IF symptom Backache is checked
AND symptom Lymphadenopathy is checked

AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_747

IF symptom Backache is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_748

IF symptom Backache is checked
AND symptom Lacrimation is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_749

IF symptom Backache is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_750

IF symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
THEN the answers is not Dengue Fever

Rule_751

IF symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_752

IF symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_753

IF symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_754

IF symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_755

IF symptom Painful red eyes is checked

AND symptom Vomiting is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_756

IF symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_757

IF symptom Painful red eyes is checked
AND symptom Depression is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_758

IF symptom Painful red eyes is checked
AND symptom Depression is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_759

IF symptom Painful red eyes is checked
AND symptom Depression is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_760

IF symptom Painful red eyes is checked
AND symptom Depression is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_761

IF symptom Painful red eyes is checked
AND symptom Depression is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_762

IF symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_763

IF symptom Painful red eyes is checked
AND symptom Malaise is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_764

IF symptom Painful red eyes is checked
AND symptom Malaise is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_765

IF symptom Painful red eyes is checked
AND symptom Malaise is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_766

IF symptom Painful red eyes is checked
AND symptom Malaise is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_767

IF symptom Painful red eyes is checked
AND symptom Malaise is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_768

IF symptom Painful red eyes is checked
AND symptom Headache is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_769

IF symptom Painful red eyes is checked
AND symptom Headache is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_770

IF symptom Painful red eyes is checked
AND symptom Headache is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_771

IF symptom Painful red eyes is checked
AND symptom Headache is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_772

IF symptom Painful red eyes is checked
AND symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_773

IF symptom Painful red eyes is checked
AND symptom Lymphadenopathy is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_774

IF symptom Painful red eyes is checked
AND symptom Lymphadenopathy is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_775

IF symptom Painful red eyes is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_776

IF symptom Painful red eyes is checked
AND symptom Lacrimation is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_777

IF symptom Painful red eyes is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_778

IF symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Malaise is checked
THEN the answers is not Dengue Fever

Rule_779

IF symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_780

IF symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_781

IF symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_782

IF symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_783

IF symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_784

IF symptom Vomiting is checked
AND symptom Malaise is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_785

IF symptom Vomiting is checked
AND symptom Malaise is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_786

IF symptom Vomiting is checked
AND symptom Malaise is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_787

IF symptom Vomiting is checked
AND symptom Malaise is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_788

IF symptom Vomiting is checked
AND symptom Malaise is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_789

IF symptom Vomiting is checked
AND symptom Headache is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_790

IF symptom Vomiting is checked
AND symptom Headache is checked
AND symptom Lacrimation is checked

THEN the answers is not Dengue Fever

Rule_791

IF symptom Vomiting is checked
AND symptom Headache is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_792

IF symptom Vomiting is checked
AND symptom Headache is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_793

IF symptom Vomiting is checked
AND symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_794

IF symptom Vomiting is checked
AND symptom Lymphadenopathy is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_795

IF symptom Vomiting is checked
AND symptom Lymphadenopathy is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_796

IF symptom Vomiting is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_797

IF symptom Vomiting is checked
AND symptom Lacrimation is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_798

IF symptom Vomiting is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_799

IF symptom Depression is checked
AND symptom Malaise is checked

AND symptom Headache is checked
THEN the answers is not Dengue Fever

Rule_800

IF symptom Depression is checked
AND symptom Malaise is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_801

IF symptom Depression is checked
AND symptom Malaise is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_802

IF symptom Depression is checked
AND symptom Malaise is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_803

IF symptom Depression is checked
AND symptom Malaise is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_804

IF symptom Depression is checked
AND symptom Headache is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_805

IF symptom Depression is checked
AND symptom Headache is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_806

IF symptom Depression is checked
AND symptom Headache is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_807

IF symptom Depression is checked
AND symptom Headache is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_808

IF symptom Depression is checked

AND symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_809

IF symptom Depression is checked
AND symptom Lymphadenopathy is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_810

IF symptom Depression is checked
AND symptom Lymphadenopathy is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_811

IF symptom Depression is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_812

IF symptom Depression is checked
AND symptom Lacrimation is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_813

IF symptom Depression is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_814

IF symptom Malaise is checked
AND symptom Headache is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

Rule_815

IF symptom Malaise is checked
AND symptom Headache is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_816

IF symptom Malaise is checked
AND symptom Headache is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_817

IF symptom Malaise is checked
AND symptom Headache is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_818

IF symptom Malaise is checked
AND symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_819

IF symptom Malaise is checked
AND symptom Lymphadenopathy is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_820

IF symptom Malaise is checked
AND symptom Lymphadenopathy is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_821

IF symptom Malaise is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_822

IF symptom Malaise is checked
AND symptom Lacrimation is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_823

IF symptom Malaise is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_824

IF symptom Headache is checked
AND symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_825

IF symptom Headache is checked
AND symptom Lymphadenopathy is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_826

IF symptom Headache is checked
AND symptom Lymphadenopathy is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_827

IF symptom Headache is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_828

IF symptom Headache is checked
AND symptom Lacrimation is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_829

IF symptom Headache is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_830

IF symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

Rule_1012

IF symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_831

IF symptom Lymphadenopathy is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_832

IF symptom Lacrimation is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

[4]

Rule_833

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
THEN the answers is Dengue Fever

Rule_834

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Rash is checked
THEN the answers is Dengue Fever

Rule_835

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Anorexia is checked
THEN the answers is Dengue Fever

Rule_836

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Nausea is checked
THEN the answers is Dengue Fever

Rule_837

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Backache is checked
THEN the answers is Dengue Fever

Rule_838

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Painful red eyes is checked
THEN the answers is Dengue Fever

Rule_839

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Vomiting is checked
THEN the answers is Dengue Fever

Rule_840

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_841

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_842

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_843

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_844

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_845

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_846

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked

AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_847

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
THEN the answers is Dengue Fever

Rule_848

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Anorexia is checked
THEN the answers is Dengue Fever

Rule_849

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Nausea is checked
THEN the answers is Dengue Fever

Rule_850

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Backache is checked
THEN the answers is Dengue Fever

Rule_851

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Painful red eyes is checked
THEN the answers is Dengue Fever

Rule_852

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Vomiting is checked
THEN the answers is Dengue Fever

Rule_853

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_854

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_855

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_856

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_857

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_858

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_859

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked

AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_860

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
THEN the answers is Dengue Fever

Rule_861

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Nausea is checked
THEN the answers is Dengue Fever

Rule_862

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Backache is checked
THEN the answers is Dengue Fever

Rule_863

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Painful red eyes is checked
THEN the answers is Dengue Fever

Rule_864

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Vomiting is checked
THEN the answers is Dengue Fever

Rule_865

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_866

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_867

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_868

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_869

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_870

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_871

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_872

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked

THEN the answers is Dengue Fever

Rule_873

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Rash is checked

AND symptom Anorexia is checked

AND symptom Backache is checked

THEN the answers is Dengue Fever

Rule_874

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Rash is checked

AND symptom Anorexia is checked

AND symptom Painful red eyes is checked

THEN the answers is Dengue Fever

Rule_875

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Rash is checked

AND symptom Anorexia is checked

AND symptom Vomiting is checked

THEN the answers is Dengue Fever

Rule_876

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Rash is checked

AND symptom Anorexia is checked

AND symptom Depression is checked

THEN the answers is Dengue Fever

Rule_877

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Rash is checked

AND symptom Anorexia is checked

AND symptom Malaise is checked

THEN the answers is Dengue Fever

Rule_878

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Rash is checked

AND symptom Anorexia is checked

AND symptom Headache is checked

THEN the answers is Dengue Fever

Rule_879

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Rash is checked

AND symptom Anorexia is checked

AND symptom Lymphadenopathy is checked

THEN the answers is Dengue Fever

Rule_880

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Rash is checked

AND symptom Anorexia is checked

AND symptom Lacrimation is checked

THEN the answers is Dengue Fever

Rule_881

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Rash is checked

AND symptom Anorexia is checked

AND symptom Bradycardia is checked

THEN the answers is Dengue Fever

Rule_882

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Rash is checked

AND symptom Anorexia is checked

AND symptom Prostration is checked

THEN the answers is Dengue Fever

Rule_883

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Anorexia is checked

AND symptom Nausea is checked

AND symptom Backache is checked

THEN the answers is Dengue Fever

Rule_884

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Anorexia is checked

AND symptom Nausea is checked

AND symptom Painful red eyes is checked

THEN the answers is Dengue Fever

Rule_885

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Anorexia is checked

AND symptom Nausea is checked

AND symptom Vomiting is checked

THEN the answers is Dengue Fever

Rule_886
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_887
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_888
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_889
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_890
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_891
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_892
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked

AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_893
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
THEN the answers is Dengue Fever

Rule_894
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Vomiting is checked
THEN the answers is Dengue Fever

Rule_895
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_896
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_897
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_898
IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_899

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_900

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_901

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_902

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
THEN the answers is Dengue Fever

Rule_903

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_904

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_905

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Headache is checked

THEN the answers is Dengue Fever

Rule_906

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_907

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_908

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_909

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_910

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
THEN the answers is Dengue Fever

Rule_911

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_912

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_913

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_914

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_915

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_916

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_917

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_918

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_919

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_920

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_921

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_922

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_923

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Depression is checked
AND symptom Malaise is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_924

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Depression is checked
AND symptom Malaise is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_925

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Depression is checked
AND symptom Malaise is checked

AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_926

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Depression is checked

AND symptom Malaise is checked

AND symptom Bradycardia is checked

THEN the answers is Dengue Fever

Rule_927

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Depression is checked

AND symptom Malaise is checked

AND symptom Prostration is checked

THEN the answers is Dengue Fever

Rule_928

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Malaise is checked

AND symptom Headache is checked

AND symptom Lymphadenopathy is checked

THEN the answers is Dengue Fever

Rule_929

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Malaise is checked

AND symptom Headache is checked

AND symptom Lacrimation is checked

THEN the answers is Dengue Fever

Rule_930

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Malaise is checked

AND symptom Headache is checked

AND symptom Bradycardia is checked

THEN the answers is Dengue Fever

Rule_931

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Malaise is checked

AND symptom Headache is checked

AND symptom Prostration is checked

THEN the answers is Dengue Fever

Rule_932

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Headache is checked

AND symptom Lymphadenopathy is checked

AND symptom Lacrimation is checked

THEN the answers is Dengue Fever

Rule_933

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Headache is checked

AND symptom Lymphadenopathy is checked

AND symptom Bradycardia is checked

THEN the answers is Dengue Fever

Rule_934

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Headache is checked

AND symptom Lymphadenopathy is checked

AND symptom Prostration is checked

THEN the answers is Dengue Fever

Rule_933

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Lymphadenopathy is checked

AND symptom Lacrimation is checked

AND symptom Bradycardia is checked

THEN the answers is Dengue Fever

Rule_934

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Lymphadenopathy is checked

AND symptom Lacrimation is checked

AND symptom Prostration is checked

THEN the answers is Dengue Fever

Rule_935

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Lacrimation is checked

AND symptom Bradycardia is checked

AND symptom Prostration is checked

THEN the answers is Dengue Fever

[5]

Rule_936

IF symptom Sudden onset of high fever (3-14 days) is checked

AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
THEN the answers is Dengue Fever

Rule_937

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Anorexia is checked
THEN the answers is Dengue Fever

Rule_938

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Nausea is checked
THEN the answers is Dengue Fever

Rule_939

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Nausea is checked
AND symptom Backache is checked
THEN the answers is not Dengue Fever

Rule_940

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Backache is checked
AND symptom Vomiting is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

Rule_941

IF symptom Retro-orbital pain is checked
AND symptom Depression is checked
AND symptom Headache is checked
AND symptom Lacrimation is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

Rule_942

IF symptom Retro-orbital pain is checked
AND symptom Anorexia is checked
AND symptom Backache is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked

THEN the answers is not Dengue Fever

[6]

Rule_943

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Nausea is checked
AND symptom Vomiting is checked
AND symptom Malaise is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_944

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Backache is checked
AND symptom Headache is checked
AND symptom Lymphadenopathy is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

[7]

Rule_945

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Nausea is checked
AND symptom Vomiting is checked
AND symptom Malaise is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_946

IF symptom Anorexia is checked
AND symptom Backache is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Headache is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

[8]

Rule_947

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked

AND symptom Nausea is checked
AND symptom Vomiting is checked
AND symptom Malaise is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_948

IF symptom Anorexia is checked
AND symptom Backache is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Headache is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever

[9]

Rule_949

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Rash is checked
AND symptom Nausea is checked
AND symptom Vomiting is checked
AND symptom Malaise is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
AND symptom Arthralgias is checked
THEN the answers is Dengue Fever

Rule_950

IF symptom Anorexia is checked
AND symptom Backache is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Headache is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

[10]

Rule_951

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Rash is checked

AND symptom Anorexia is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Malaise is checked
AND symptom Headache is checked
AND symptom Arthralgias is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

Rule_952

IF symptom Painful red eyes is checked
AND symptom Myalgias is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Headache is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
AND symptom Lymphadenopathy is checked
AND symptom Retro-orbital pain is checked
THEN the answers is not Dengue Fever

[11]

Rule_953

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Myalgias is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Malaise is checked
AND symptom Headache is checked
AND symptom Arthralgias is checked
AND symptom Prostration is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_954

IF symptom Painful red eyes is checked
AND symptom Myalgias is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Headache is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
AND symptom Lymphadenopathy is checked
AND symptom Rash is checked
AND symptom Arthralgias is checked
THEN the answers is not Dengue Fever

[12]

Rule_955

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Malaise is checked
THEN the answers is Dengue Fever

Rule_956

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Malaise is checked
AND symptom Headache is checked
THEN the answers is not Dengue Fever

[13]

Rule_957

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Malaise is checked
AND symptom Headache is checked
THEN the answers is Dengue Fever

Rule_958

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Malaise is checked
AND symptom Headache is checked
AND symptom Lymphadenopathy is checked
THEN the answers is not Dengue Fever

[14]

Rule_959

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Malaise is checked
AND symptom Headache is checked
AND symptom Lymphadenopathy is checked
THEN the answers is Dengue Fever

Rule_960

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Malaise is checked
AND symptom Headache is checked

AND symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
THEN the answers is not Dengue Fever

[15]

Rule_961

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Malaise is checked
AND symptom Headache is checked
AND symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
THEN the answers is Dengue Fever

Rule_962

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Malaise is checked
AND symptom Headache is checked
AND symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is not Dengue Fever

[16]

Rule_963

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked

AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Malaise is checked
AND symptom Headache is checked
AND symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
THEN the answers is Dengue Fever

Rule_964

IF symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Malaise is checked
AND symptom Headache is checked
AND symptom Lymphadenopathy is checked
AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is not Dengue Fever


[16]

Rule_965

IF symptom Sudden onset of high fever (3-14 days) is checked
AND symptom Retro-orbital pain is checked
AND symptom Myalgias is checked
AND symptom Arthralgias is checked
AND symptom Rash is checked
AND symptom Anorexia is checked
AND symptom Nausea is checked
AND symptom Backache is checked
AND symptom Painful red eyes is checked
AND symptom Vomiting is checked
AND symptom Depression is checked
AND symptom Malaise is checked
AND symptom Headache is checked
AND symptom Lymphadenopathy is checked

AND symptom Lacrimation is checked
AND symptom Bradycardia is checked
AND symptom Prostration is checked
THEN the answers is Dengue Fever

APPENDIX C
(Expert's Details)

Universiti Malaysia PAHANG		PERSONAL INFORMATION Universiti Malaysia Pahang, Lebuhraya Tun Razak, 26300 Kuantan, Pahang Darul Makmur				
	Name	KHAIRUL SALLEH BIN ABDUL BASIT				
	Designation	PEGAWAI PERUBATAN				
	Grade	UD47				
	Staff ID	01295				
	Department	PUSAT KESIHATAN PELAJAR				
	Office Number	095493103	Mobile Number	0168888605		
	Fax Number	095493152				
	Email	khairulsalleh@ump.edu.my				
	Website	http://www.ump.edu.my				
	PERSONAL BACKGROUND					
I/C No	700812065289	Passport No	A16811949			
Gender	LELAKI	Birth Date	12/08/1970			
Birth Place	PEKAN PAHANG	Birth State	PAHANG			
Marital Status	MARRIED	Race	MELAYU			
Religion	ISLAM	Citizen	MALAYSIA			
Bumiputera Status	Y	Language				
Driving License Class	01F	Driving License Serial Number	BJ493392			
Blood type	B+	Disability Type				
Permanent Address	RUMAH KAKITANGAN NO. 34 PUSAT KESIHATAN JABATAN PENDAFTAR UNIVERSITI MALAYSIA PAHANG LEBUHRAYA TUN RAZAK GAMBANG KUANTAN	Current Address	RUMAH KAKITANGAN NO. 34 PUSAT KESIHATAN JABATAN PENDAFTAR UNIVERSITI MALAYSIA PAHANG LEBUHRAYA TUN RAZAK GAMBANG KUANTAN			
Permanent State	PAHANG	Current State	PAHANG			
Permanent Postcode	26300	Current Postcode	26300			
Permanent Country	MALAYSIA					
ACADEMIC QUALIFICATION						
University / Institution / School	Location	Course	Level	Year		
SEKOLAH MENENGAH BANTUAN PENUH KERAJAAN	-	SAINS	SPM	1987		
KASTURBA MEDICAL COLLEGE INDIA	-	PERUBATAN	IJAZAH SARJANA MUDA (BACHELOR DEGREE)	1996		
UNIVERSITI KEBANGSAAN MALAYSIA	-	KESELAMATAN PEKERJAAN DAN KESIHATAN	DIPLOMA LEPASAN IJAZAH	2004		
UNIVERSITI KEBANGSAAN MALAYSIA	MALAYSIA	KESIHATAN AWAM	CERTIFICATION	2008		
RELATIONSHIP						
SPOUSE INFORMATION						
No.	Name	IC number	Spouse's Job	Marriage Date		
1	DR ROZALIAH BTE ZABIDI	701115135004	PEGAWAI PERUBATAN	28/05/1999		
CHILDREN INFORMATION						
No.	Name	Birth Certificate No./IC No.	Birthdate	Birth State	Gender	Type
1	LUQMAN FIKRI	000307130177	07-MAR-00	SARAWAK	MALE	-
2	HASANURRAHMAN	020628130635	28-JUN-02	SARAWAK	MALE	-
3	MUHAMMAD FAIZ	040301130017	01-MAR-04	SARAWAK	MALE	-
4	MUHAMMAD RAYYAN	090101130149	01-JAN-09	SARAWAK	MALE	-
FAMILY / RELATIVE INFORMATION						
No.	Name	Relation	IC number			
1	ABDUL BASIT ABDUL RAHMAN	BAPA	431101065095			
2	KHAZIMAH BTE MUSA	IBU	430823065148			
SERVICE RECORD						
Job Category	NON ACADEMIC					
Job Classification	PENGURUSAN DAN PROFESIONAL					
Job Status	TETAP					
Staff Status	ACTIVE					
Join Date	18-NOV-2009					

SERVICE HISTORY RECORD				
Department	Post	Status	Start Date	Resign Date
JABATAN PENDAFTAR	PEGAWAI PERUBATAN UD47	TPERCUBAAN	18/11/2009	-

SERVICE HISTORY RECORD (JAWATAN GILIRAN)				
Department	Post	Status	Start Date	Resign Date
PUSAT KESIHATAN PELAJAR	DILANTIK SEBAGAI KETUA	-	01/01/2012	31/12/2013

PROFESSIONAL AFFILIATION					
Organisation	Role	Level	Organisation Status	Join Date	End Date
No Information Please Enter Your Details					

AWARD AND RECOGNITION					
Award	Award Category	Awarded By	Title	Level	Year
No Information Please Enter Your Details					

EXPERTISE	
Field	Expertise Level
PERUBATAN DAN KESIHATAN - A COMPETENT & REGISTERED MEDICAL PRACTITIONER MMC (MALAYSIAN MEDICAL COUNCIL) REGISTRATION NUMBER:33568	-
PERUBATAN DAN KESIHATAN - A COMPETENT & DOSH REGISTERED OCCUPATIONAL HEALTH DOCTOR JKPP KES 127/669/1(460)	-
PERUBATAN DAN KESIHATAN - A COMPETENT & DOSH REGISTERED CHEMICAL HEALTH RISK ASSESSOR JKPP HIE 127/171-2(265)	-

WORKING EXPERIENCES				
Employer	Position	Join Date	Resign Date	Status
KEMENTERIAN KESIHATAN MALAYSIA	MO	18/06/1996	18/06/2001	PERMANENT
SEMICONDUCTOR INDUSTRY	OCCUPATIONAL HEALTH ADVISER	01/07/2004	15/11/2009	-
NORMAH MEDICAL SPECIALIST CENTER (NMSC) KUCHING SARAWAK	OCCUPATIONAL HEALTH DOCTOR	01/07/2004	15/11/2009	PERMANENT

SUBJECT TAUGHT				
Semester	Subject Code	Subject	Credit Hour	Tot. Student
No Information Please Enter Your Details				

SUPERVISION					
Title	Student's Name	Start Date	End Date	Status	Type
No Information Please Enter Your Details					

TEACHING EVALUATION			
Semester	Subject	Category	Mark
No Information Please Enter Your Details			

RESEARCH			
Title	Role	Period	Status
No Information Please Enter Your Details			

RESEARCH OUTPUT - EXHIBITION				
Title	Exhibition	Level	Award Winning / Medal	Date
No Information Please Enter Your Details				

RESEARCH OUTPUT - JOURNAL				