PR EXCELLENT CREATIVE WITH INTEGRATED EVENT BUDGET CALCULATOR

(PRECEBC)

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PR EXCELLENT CREATIVE WITH INTEGRATED EVENT BUDGET CALCULATOR

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A report submitted in partially fulfillment

of the requirements for the award of the degree of

Bachelor of Computer Science (Software Engineering)

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SUPERVISOR'S DECLARATION

"I hereby declare that I have checked this project and in my opinion, this project is adequate in terms of scope and quality for the award of the degree of Bachelor of Computer Science with Software Engineering."

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STUDENT'S DECLARATION

"I hereby declare that the work in this project is my own except for quotations and summaries which have been duly acknowledged. The project has not been accepted for any degree and is not concurrently submitted for award of other degree. "

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ABSTRACT

PR Excellent Creative is a company which is doing public relation in managing variety of event. The PR Excellent Creative is ready to provide their clients the best events and exhibitions with vibrant, dynamic and energizing creative strategy throughout east coast of peninsular Malaysia. This company always needs to competitive with variety of event based management companies in whole of Malaysia. The creativity and innovation of company need to inspire to open new market in anywhere. Because of this problem, they try to promote their company using web. The main objective for doing website is let more their client more understand about the background of company and it will leading them to be giving trust to them. In this proposal project involved of three main users, there are admin, member and external user.

ABSTRAK

PR Excellent Creative adalah syarikat yang menjalankan perhubungan awam dan perancangan pelbagai aktiviti. Syarikat tersebut bersedia untuk memberikan perkhidmatan yang terbaik kepada pelanggannya. Akan tetapi, PR Excellent Creative sentiasa menghadapi cabaran daripada syarikat-syarikat yang berasaskan daripada perancangan aktiviti. Untuk menangani masalah ini, PR Exellent Creative memerlukan kreatif dan inovatif untuk mengembangkan perniagaan mereka dan kepercayaan daripada pelanggan. Melalui rancangan yang teliti, pembangunan laman web adalah salah satu cara untuk memberi peluang kepada pelanggannya untuk memahami latar belakang syarikat dan memberikan kepercayaan dan peluang kepada mereka untuk merancang aktiviti mereka. Dalam sistem ini terdapat tiga pengguna, iaitu admin, member, dan pengguna luar.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

What is an event? According to the definition of business dictionary, event means occurrence happening at a determinable time and place, with or without the participation of human agents. It may be a part of a chain of occurrences as an effect of a preceding occurrence and as the cause of a succeeding occurrence. As PR means public relation, PR Excellent Creative is a company which is does public relation in managing variety of event. The PR Excellent Creative is Malaysia east coast's upcoming leading exhibition and PR events organizer. In other word, PR Excellent Creative is manage in event planning which involves studying the intricacies of the brand, identifying the target audience, devising the event concept, planning the logistics and coordinating the technical aspects before actually executing the modalities of

the proposed event. Post-event analysis and ensuring a return on investment have become significant drivers for the event industry.

Now established in the biggest state of West Malaysia Pahang that inspires every sense with its choice in fashion, food and urban of leisure – Kuantan. The PR Excellent Creative is ready to provide their clients the best events and exhibitions with vibrant, dynamic and energizing creative strategy throughout east coast of peninsular Malaysia. The company vision to be the first choice for event management and marketing center within east coast of peninsular of Malaysia. The PR Excellent Creative is trying their best to operate across 3 markets. There are fashion lifestyle & leisure, business & trade, education & entertainment. These are main core for PR excellent Creative.

They are now aiming to serve in the region with 2,000 exhibitor and 150,000 visitors and the company was founded in the time in response to growing interest in exhibition as a new sales and marketing tool. The PR Excellent Creative strives to continue to match and exceed market needs. Otherwise, budgeting for an event is by far the most important aspect of a successful event. This is a goal for PR Excellent Creative need to achieve to help its customer to organize in lower cost. Decorations in an event are necessary for setting the mood, framing the emotion and underscoring the importance of the event. That is another goal for company to achieve in managing an impressive event .In order to make event management more efficient, the web page is an alternative way to have a successful for event management.

As a result, The PR Excellent Creative is decided to develop a company web page which integrated with an event budget calculator. These webpage is consists of multiple purpose. The most important is to help PR Excellent Creative to archive the company vision as soon as possible. It will helps to

change PR Excellent Creative to be more standardize and systematic. On the other hand.it helps the customer and visitor more understand about the company's operation and the service provided by PR Excellent Creative. For additional, PR Excellent Creative had decide to make an event budget calculator to help his client to estimate the location by budget.

1.2 Problem Statement

In order to survive in the event management sector, PR Excellent Creative had faced a lot of challenge from variety of event Management Company. The creativity and reliability of company is needed to help PR Excellent Creative to leading the event management sector in the future.

Otherwise, management of PR Excellent Creative cannot always update its event status to its client and any changes or update cannot be transmitted to its client at an efficiency way.

On the other hand, clients always confuse with the process and the objective of event management. They always ignore the importance of event management and causing events cannot be managed as scheduled. Some of case will leading to over budget.

Furthermore, clients always can't estimate their venue for find a suitable organize their event. For solved this kind of problem, a solution is required to ensures that the event can be success in shortest and efficiency way.

1.3 Objective

In this project, we have to develop a website that describe about the operation of PR Excellent Creative. It is required to help their clients to understand about the background of their company and increase their trust. This is because web applications do not require any complex "roll out" procedure to deploy in a large organization. A compatible web browser is all that is needed. On the other hand, we are required to get the requirements for the event budget. It is very important part for an event budget calculator. The further step is to design rule for event budget and activities suggested using rule based expert system. When the whole webpage is completed, we need to evaluate the system performance. It is to help the website can achieve the objective which set by PR Excellent Creative. For the design of the website, it must be simplify the structure of the task which helps to increase the performance for webpage.

1.4 Scope

This project is involves three kinds of user; there are external users, member and admins. For admins, there is a way for them to modify the data which is displayed in website. They can update, edit and delete the variety of data which that think is suitable to their website. Some of information is restricted with time duration to ensure that all data is correct all the time.

For external users, they can view and get the information about PR Excellent Creative, Many kinds of information such as background of company, event done by PR excellent Creative, upcoming event, video clip and so on.

Users also give some ways to communicate with admins. They allowed applying some part time job trough website.

Beside of that, the users also can calculate his event budget by self before they assign his project to PR Excellent Creative. This will help them to think about the scale of event they want to organize.

1.5 Thesis Organization

There are five chapters:

- Chapter 1: Introduction

  In this chapter, we will describe about the introduction, objective, scope and thesis organization of the system.

- Chapter2: Literature Review

  In this chapter, we will review the literatures which of related to system and event management.

- Chapter3: Methodology

  This chapter will discuss about the methodology used in the system and process flow through the project.

- Chapter4: Result and Discussion

This chapter will interpret the result and making discuss about the system and make suggestion future improvement for the system.

- Chapter5: conclusion

In this chapter, we will make the conclusion about the system.

Chapter 2

LITERATURE REVIEWS

2.1 Introduction

Ad Event Management (M) SDN BHD is an event service company which specializes in event solution more than 10 years experience. The company always provides a full range of service to their clients. The service includes creative development, design, production, staging, celebrity entertainments, concert, production launches and more. They have gain an unparalleled reputation for their quality service. They provide a wide range of services to their customers.

For this company, their philosophy is to have controlled growth of their client event and projects by experience and professional perspective. They will provide as many services and good in order of insure overall quality and give spectacular and memorable event to their clients.

2.1.1 Overview the AD Event Management (M) SDN BHD‘s Website

In the website, we found a lot of information about AD Event Management (M) SDN BHD‘s detail. Inside this website, there are 11 modules existing for this website. They are home, about us, service, project, testimonials, advertise here, directory, event blog, news, log in, and contact us. The interface is shown in figure 2.1 to figure 2.4.

In the home module, there are briefly describes about AD Event Management (M) SDN BHD. It also contains of their company philosophy and mission. From this page, there are some picture slide shows for viewing. Whereas in about us module, there are some description about job scope of this company.

In the services, there are list of event which this company provides service. It can be category to 8 kinds: there are special events, leisure events, convention, seminar & meetings, product launching, corporate launching & opening ceremony and other. With this list, client can understand about what service is provided.

In the project, there are some projects or events have been done by this company. Additional description and picture in this page to helps client

understand about the event and project. For advertise section, user can make an advertisement. A complicated form need to fill in before post in website. When it successfully posted, there will exists in directory according to his feature.

In the log in module, it allows users to log in or register to be a member. There are some benefits to become member, there are gain access to professional advice if you are a “NEW TALENT”, the “Get a FREE URL” where your clients and potential clients can view your profile directly, and get more information about showcase, product and service in the international arena.

From design perspective, there are some interaction between the user and the website. For example, website allow user to log in for getting advance information and interaction.

This webpage has fulfilled some rules in Shneiderman’s 8 Golden Rules. Firstly, it strives for consistency. For interface page, there is almost the same but with different content .With same interface will help the user feel familiarity with the webpage. Another rule is to offer informative feedback. Some of invalid step during log in and advertise here will giving an alert to remind user to change it correctly.

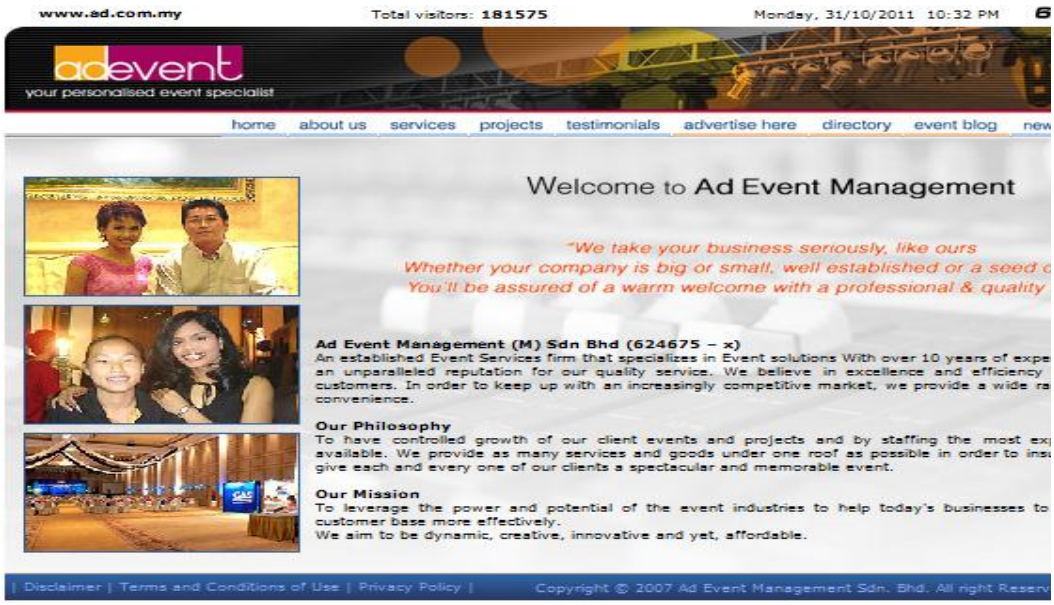

Figure 2.1: Home page for AD Event Management

Figure2.2: Services which provided by AD Event Management

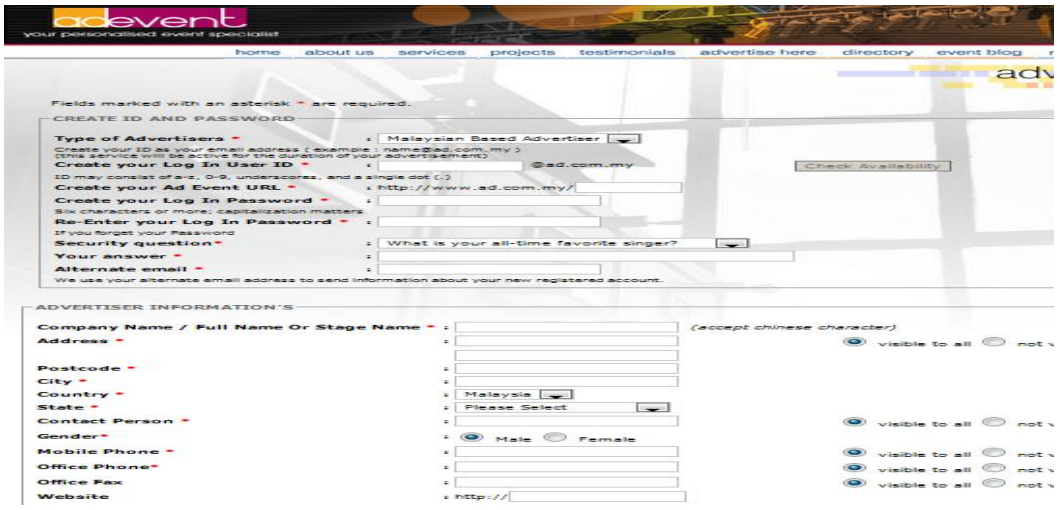

Figure 2.3: Advertise here module for AD Event Management

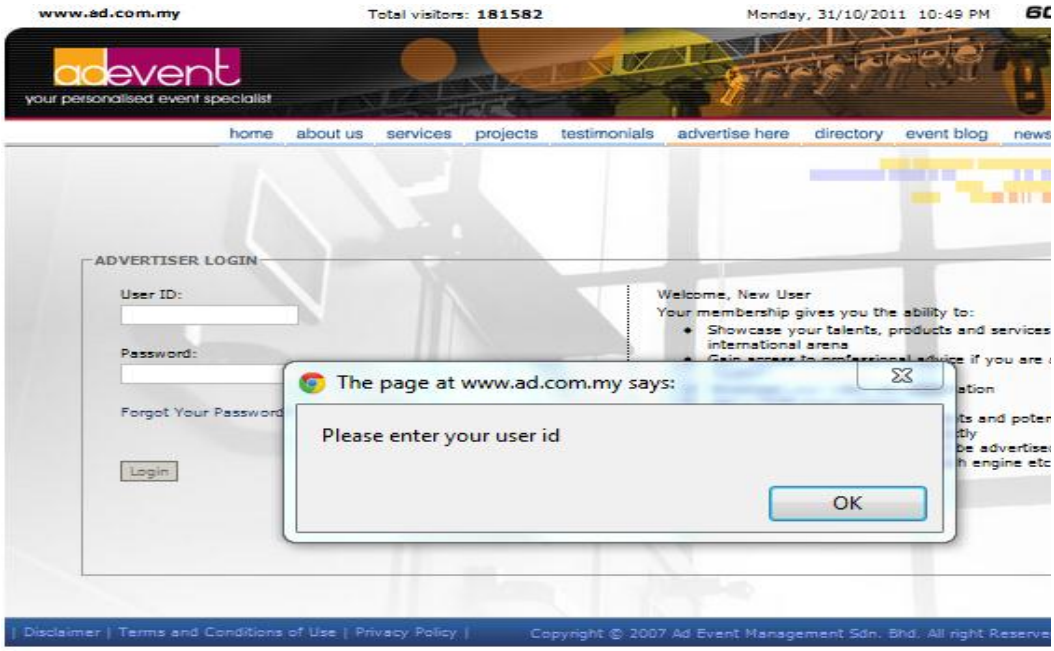

Figure 2.4: **Alert box when user id and password are empty**

2.1.2 Difference between AD Event management (M) SDN BHD and Proposal Webpage for PR Excellent Creative

Proposal webpage for PR Excellent Creative	AD Event Management (M) SDN BHD
Integrated with event budget calculator	No integrated with event budget calculator
Provided a mailbox for user to communicate with admin	No mailbox available
Admin can make any advertising in home page	No advertising place in home page.
User can comment on some event	No site for comment on event
RVSP for those interested user for certain event (sending update message about specific event.)	No RSVP available.
Provide some event video.	No event video provided in webpage.
Automated removal expired advertising and event in event upcoming.	No automated removal expired advertising.

2.1.3 Conclusion

AD Event Management has makes some inspired me to develop a website for PR Excellent Creative. With some new idea for the website, some new feature will be added into website to make more advance website for PR Excellent Creative compare to AD Event Management's website. Some new features will be added according to client's need such as mailbox, event budget calculator.

2.2 The Current System of PR Excellent Creative

PR Excellent Creative is a company that manages in event planning. Variety of services provided by company to helps client to get good performance on their event.

To get more attention from client, instead of price for organize an event, promotion about company is much more important for an event planning company. Without any creative and reputation of company, it will bring company to be eliminated soon from real world since many of competitor to fight with them.

Before PR Excellent Creative decided to develop a website for their company, they have done many of way to increase reliability of his client. They provided many of good service and getting many of good impression from customers. With limitation of existing customer, the potential customers need to explore out by some efficient method.

One of the ways PR Excellent Creative has been done is making a blog. During the blog, some event can be promoted to public to let more people to know about the existence of that event. It easily to update from time to time as some new hot issue want to show with public.

2.2.1 Blog

A blog is a part of a website supposed to be updated with new content from time to time. Its helps existing customers to get useful content and the

blog enables them to interact with the blogger and the discussions that they have together can be potentially unending.

A blog is different from website and it provides a dimension or perspective to the content that you can't get from your website content. Through your consistent and regular blog content, you will eventually be regarded as a subject matter expert in your niche and people will turn to you for answers. This will be discussing and indirect promote something [2].

What is really being done in this case is that relationships are being developed and strengthened. Some of the people with whom you interact on your blog will never become your customers. That is perfectly acceptable. They can interact with you as much as they like and do not have to worry about any pressure to buy anything. A very important fact is that the people with whom you interact are getting to know you as a person, which includes your level of integrity, your passion for what you are doing and offering and your knowledge, knowledge that you impart to them [2].

Blogs give a lot of useful features that are very giving benefit in promoting interactivity. Blogs allow visitors to subscribe to them so they can receive updates on a very regular basis. They will always get notifications when new content is updated or there has been some update to the social media profiles of the people with whom they interact [2].

In order to make it to be more effective, blogs must always update new post at least once or twice a week. Fresh, attractive and original content is very important as is exactly what attracts and retains people and many of those people will eventually become customers [2].

The true purpose of a blog is to provide interesting, valuable and helpful content that helps other people and that they find interesting. A blog's purpose is actually not to advertise or to do a hard sell on anyone. If you try to use your blog in that way, you will be very disappointed with the results. You

will not be able to build relationships with anyone and you most likely won't sell very much. People don't buy from people whom they don't trust. The only way that they will trust you is if they get to know you.

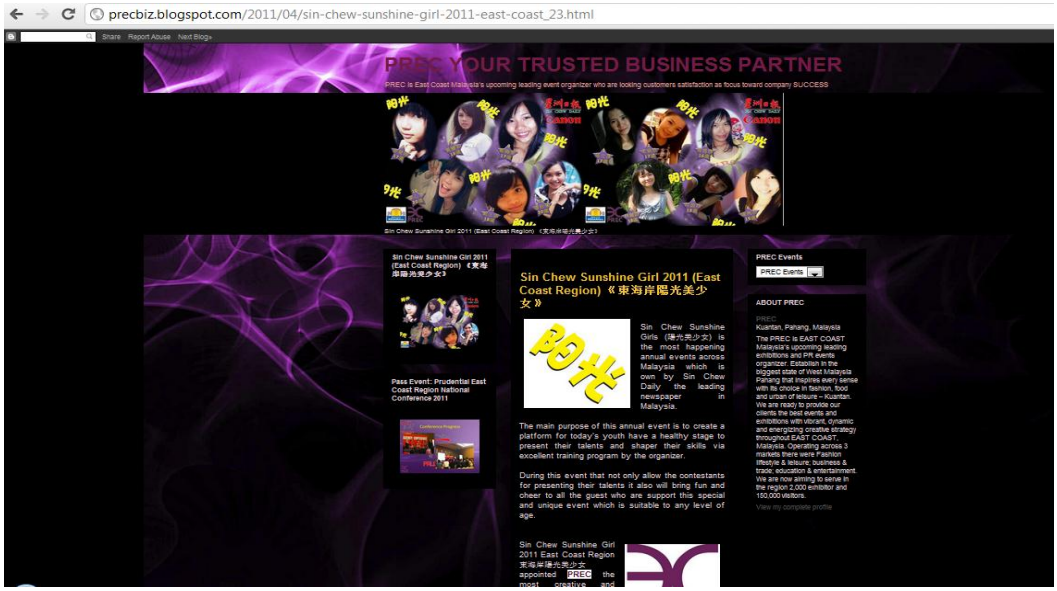

Figure 2.5: The blog done by PR Excellent Creative [3]

2.2.2 Weakness of Blog

The existence of blog can't be an official web page business. It is much informal since it no a formal way to interactions with customers. It seems no professional and will difficult to get more reliable from customers.

The blocking to blog on some country always becomes a barrier for business. It will restrict some customer from blocking country to get the information of company [4]. Consequently, it will cause company to get lesser offers from this range of customer. Otherwise, to prevent employee from writing blog during office hour, some of company have block of use of blog. That means that company can't view about the detail about company. It is much bad for an event planning company.

On the other hand, some specific function can't be achieved by using blog. From instance, like some calculation can be performs on blog, since it need a specific coding to run it.

For those who are expert on blogging, they are no problem on blogging. In contrast, for those who novice on blog, it is a difficult job for them to make a good blog. They need a lot time to learn how to write a blog which fulfill to his thinking.

2.2.3 Comparison between Website and Blog

Website	Blog
Professional-official address and location of a web based business. [6]	Informal- day to day thought and share. It mostly can become sub domain of website.
Works as representative of company.	Works as online diary.[5]
Homepage always static	Homepage depend on user update.
More security since some confidential detail only can view by admin.	Less security compare to website.
Building more reputation for company	Reputation less build since it more constant contract with target audience.
Build potential customer and existing customer	Doesn't build potential customer.
Mostly to help client to get their goal.	Informative and educational.
No blocking in certain country.	Blocking existing in certain country.

Specific function can be exists.	Some specific functions can be done.

2.2.4 Reason to Develop a Website

The website is a best solution for solve weakness of blog. It is more professional and official business website. It can be consider as representative of a company and formally to customer to get reliability from them.

The content of website can be say more reliable compare to blog since it like an official announcement to public and mostly helps customer to get their goal. It also mostly remains static on main page [6].

Some specific function can be declared on website according to company need. It making website to be more worth to use to get some result or answer from website.

2.3 Rule Based Expert System

Rule based expert system is a skill derived from artificial intelligent [12]. It is a computer system which can emulates human expert to making decision [7]. Unlike conventional program, rule based expert system are design to solve a complex problems by reasoning about knowledge like an expert. It doesn't follow the procedure of a developer to solve problem [8] [9] [10].

In expert system, one of most common form of knowledge representation is if-else rule. It made up a set of rules that analyze user supplied

information about a specific class of problem. System can utilize reasoning capability and draw conclusion.

In real world, rule based expert system very useful to companies but it must be in a high level of experience and expertise that difficult to transfer to other member. This kind of system normally use by professional field such as medical, accounting and engineering .

2.3.1 Component of Rule Based System

A common Expert system consists of three components. There are the working memory, the rule base and inference engine. The rule base and working memory exist as data structure where data is used by system. The inference engine is basic program. There is very clear about separation between data and control in a system.

Working Memory (WM)

The working memory (WM) consists of a set of fact which is about domain. The element in fact is reflects the current state of world. Commonly, Working Memory contains of information and solution about problem being addressed. Working Memory always help system focus in its problem solving.

The actual data inside Working Memory is depends on type of application. In early state, Working Memory will contain a priori information known to the system. The inference engine uses this information to find out more information about the problem being solved with rules in rule base [11].

Rule Base

The rule base is also known as knowledge base. It consists of the set of rules which used to represent knowledge about domain. It can be express in natural language with rule IF…THEN. This formulation has the advantage of understanding by using everyday language which is rare used in computer science.

The condition in IF statement is call as antecedent which evaluated based on current situations about problem being solve. Some systems allow disjunctions in the antecedent. It helps to evaluate the true by Boolean operation with determine combination of several rules. The consequents of a rule normally will alter to Working Memory. It usually will incorporate the information obtained by application of the rules. Consequently, some elements in Working Memory had been modified, deleted, or new elements are added into Working Memory.

Inference Engine

The main role of inference engine is tries to derive new information about problem by using rules in rule base and situation specific knowledge in the Working Memory. The engine has two ways to run. There are batch or conversational.

In batch, expert system has all the necessary data to process from the beginning. For the user, the program works as a classical program: he provides data and receives results immediately. Reasoning is invisible.

The conversational becomes necessary when the developer knows he can't ask the user all the necessary data at the start, the problem being too complex. The software must "invent" the way to solve the problem, request the user missing data, gradually, approaching the goal as quickly as possible.

The result gives the impression of a dialogue led by an expert. To guide a dialogue, the engine may have several levels of sophistication: "forward chaining", "backward chaining" and "mixed chaining". Forward chaining is the questioning of an expert who has no idea of the solution and investigates progressively (e.g. fault diagnosis). In backward chaining, the engine has an idea of the target (e.g. is it okay or not? Or: there is danger but what is the level?).

It starts from the goal in hopes of finding the solution as soon as possible. In mixed chaining the engine has an idea of the goal but it is not enough: it deduces in forward chaining from previous user responses all that is possible before asking the next question. So, quite often, he deduces the answer to the next question before asking it.

2.3.2 Conventional Programs VS Rule Based Systems

In a conventional program, this program is much different from Rule based system since it doesn’t has a clean separation but rule based system give a procedural interpretation [11].

The most difference between conventional program and rule based system is declarative. Declaration of the knowledge of the world in the form of rule and fact always unique of rule based system. A control mechanism will be used to infer facts about the world. But this kind of feature cannot be found in conventional program [11].

Another difference between rules based system and conventional system is natural of procedure invocation. A rule based system always giving a procedural interpretation. That's means rules can modify the contents of working memory. The modification in working memory causes other rules become reliable. Unlike procedure invocations in conventional program which doesn't invoke other rules directly [11].

Compare to mostly conventional program, a rule based system always show a high degree of modularity. This is because each rule in rule based system is unique and does not affect any other rule. In contrast, the additional of new procedure would modify the existing code in real world to get more accurate of value [11].

2.3.3 Advantages of Rule Based Systems

The existing of rule based system is giving some advantage to real world. The most seen is homogeneity. This is because rule based system consists of uniform syntax, the meaning and interpretation of each rules can be easily analyzed.

Otherwise, another advantage of rule based system id simplicity. Since the syntax of rule based system is simple, it easily to understand by domain expert about rules without explicit translation. Therefore, rules can be self-documenting to a good extent.

The rule in rule based system is independent. Each rule is an independent piece of knowledge about domain. It no need to worry about the rule located and will not interact with other rules in rule based system.

The next advantage of use of rule based system is separation of knowledge from use and control. That means rule base separate knowledge from interference engine from solving problem. In advance, different rules in rule based can be uses in different interference engine.

Another unique of rule based system is this system has procedural interpretation. With this kind of interpretations, it enables them to view as computational model.

2.3.4 Prominent Expert Systems

- MYCIN – used to diagnose infectious blood diseases and recommend antibiotics.
- DENDRAL – embedded a chemist's knowledge of mass spectrometry rules to use in analysis.
- CADUCEUS – used to analyze blood-borne infectious bacteria
- CLIPS and Prolog programming languages are both used in expert systems
    - The Age of Empire game uses CLIPS to control its AI

2.3.5 Summary

In develop website, the event budget calculator is using rule based system technique to process it. This is required for use because of conventional program can't process it well compare to rule based expert system. The some feature of rule based system such as homogeneity, simple and separation between knowledge base and inference engine is much needed for develop event budget calculator.

2.4 Conclusion

As conclusion, PR Excellent Creative need to be develops a website for their company. With existence of website, it can be as formal way for company to promote any event to user in internet. Their client can view about many detail from website and understand for future cooperation. Furthermore, it can make get reliable and confident about their company from customers.

On the other hand, some artificial intelligent technique will be used in event budget calculator. It to helps users to gets a roughly budget on his event.

CHAPTER 3

METHODOLOGY

3.1 Introduction

Methodology is guideline for solving a problem with specific condition and component such as phase, tasks, methods, techniques and tools

. It's useful for design and implementation most of system. For this project, a correct methodology will helps to archive objective and complete of project. The processes are done iteratively and incrementally. There are several models for such process, each describing approaches to a variety of tasks or activities that take place during the process for instance: the Waterfall model, the RAD model and other.

In this chapter, a detailed description and elaboration about the methodology will be describes for developing of this project. There is a prototype that I choose, there is Rapid Application development (RAD) is. There are four phases stated in RAD which is requirement planning, design, construction and cutover. Thus RAD lifecycle is designed to ensure that developers build the systems that the user really needs it. Figure 3.1 shown processes for RAD.

Through the following four states which describes on RAD lifecycle, include all the activities and tasks required to scope and define business requirements and design, develop, and implement the application system that supports those requirement. RAD is following a schedule that refers design improvement to the product version.

First phase which is requirement planning, this stage defines the problem statement and business functions that required by business part which is PR Excellent Creative (PREC) and collect data subject areas that system support and determines the system's scope of PR Excellent Creative webpage with integrated Event Budget Calculator (PRECEBC).

Second phase is design. This stage uses workshops to model the system's data and processes and to build a working prototype of critical system components. It includes design the user interface and database.

Third phase is construction. This phase also known as development stage. This stage completes the construction of the physical application system, builds the conversion systems and develops user aids and implementation work plans. It includes implement the coding and link the database as well.

Stage of cutover includes final user testing and training, data conversion, and implementation of the application system.

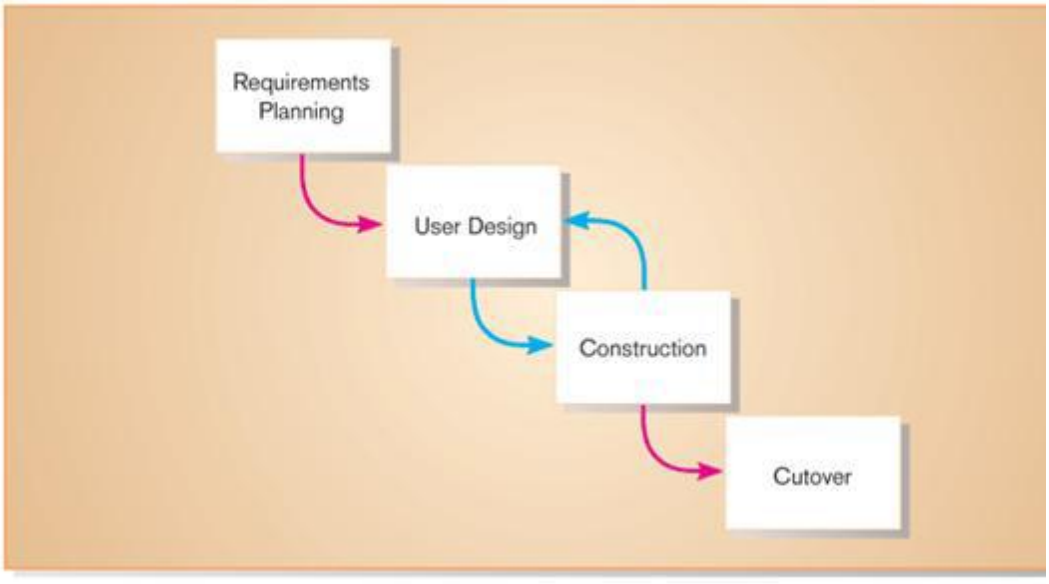

Figure 3.1:Rapid Application Development (RAD)

Methodology is very important to ensure the software produces is up to standard. Furthermore, Grant Chart is always referring which is develops referring to RAD to make sure the progress is going as planning. Techniques is used in the methodology will directly affect th final quality of the software that going to develop. These techniques are detailed out, to further ensure that its system meet its requirements, and able to deliver on time.

3.2 Justification Rapid Application Development (RAD)

Rapid Application Development (RAD) is development lifestyle designed to give much faster development and higher quality results than those achieved with the traditional methodology lifestyle.

RAD takes advantage of automated tool and techniques to restructure the process the process of building information systems. It can be shown in my system, PR Excellent Creative webpage with integrated Event Budget Calculator (PRECEBC). In PRECEBC, there are two modules which are admin management and external users management also focus on store information system.

Otherwise, RAD replaces hand design and coding processes, which are dependent upon the skills of isolated individuals with automated design and coding. To be more stable for system, RAD always is choice for methodology since is much faster and less error prone than hand coding.

In Creating of this system, the satisfaction from my customer is much more important. As result, the case study about PRECEBC is important from my client to ensure that my system is exactly what my client need.

RAD process also directly integrates the end users in the development of the application. Iterative prototyping mandated that the development teams concentrate on delivering a series of fully functional prototypes to designated user experts.

3.3 Requirement Planning

The system requirements are obtain from my client which is PR Excellent Creative (PREC). Mr. Alex Chea is Public Relation Manager of PREC who will become representative of PREC. With cooperation of Mr. Alex Chea, he helps us to state the system requirements of PR Excellent Creative Webpage with integrated Event Budget Calculator (PREC). According to his description, the webpage should be bringing out many of information about company service, event and upcoming event. On the other hand, admin allow to updates all the information of webpage.

For more additional option, Mr. Alex Chea requests us to making an event budget calculator. It will help client to estimate about his event budget in more efficient way. By the ways, the client can save many of time instead of waiting for public relation company to calculate out the cost of event.

The planning phase is provided a framework that is enable the developer to estimate resources required for whole project. It may be hardware or software. For development of PRECEBC, a lot of resources are used for complete the project. The hardware resources included laptop, printer and software resources such as Visual Studio 2010, Rational Rose, and etc. With listing out the resource will make job more easily when it going to execute the progress.

For scheduling, the arrangement time is important step for making project to be success. All of phase must be progress and completed on time. To making scheduling, we had arranged time by build a grant chart using Microsoft Visio 2010. From the grant chart, the total time of spend to develop PRECEBC is record and the estimation of the delivery time for system. Appendix A shows grant chart for this project.

3.4 User Design

User interface is a very important part in a system and it is the part that interacts with user. The user interface is a key and determines the application usability; therefore user interface must be friendly and meet the user requirement. This is required due to the reason of a user who is in inexperience and limited knowledge in using the system.

There will be different set of user interfaces display according to their role and responsibilities. It will discuss on Software Requirement and Specification.

3.4.1 Interface Design

Interface design is a structure of the system which display to user to view. In this project, many of interfaces have been done to helps user to comfort and understand the content of our web page. The examples of interface will be in the Software Requirement Specification document.

3.4.2 Data Flow Diagram

Data Flow Diagram (DFD) was chosen as process model to show the flow of data and work performed by system. The pictorial representation is able to give a distinct idea about the data flow in the system. An overview of the system will be constructed first and it will show the source of the system. There are only three symbols and one connection which is rounded rectangle represents processes, squares represent external agents, open boxes represent data stores and arrow represent data flow. The context diagram show in figure 3.2 whereas the Data Flow Diagram (DFD) has be show in Appendix B.

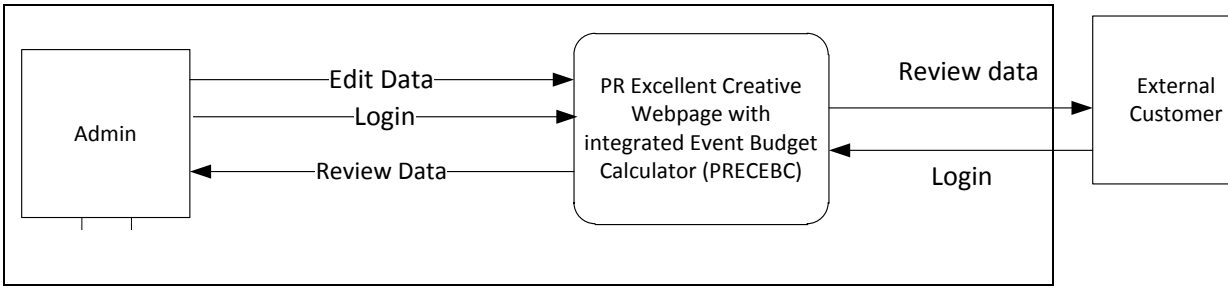

Figure 3.2:context Diagram

3.4.3 Database Design

A database design is the data from the database to be structured neatly and logically with the relationships linked. There are two aspects to database design that was defined by Oracle Corporation (Guide to Database Design and Definition, 1996):

i. **Logical design** – Involves arranging data objects into a series of logical relationships called entities and attributes.

ii. **Physical design –** consists of converting the information gathered during the logical design phase into a description of the physical database.

Appendix C shows the database model diagram for this system. In this design, there are five tables which are: external user table, admin table, event table, advertising table, video table, and picture table.

3.4.4 User Review Session

In user review sessions, we have been done by making few meeting with my client. We have discussed about the requirements, functionalities, and constraints for their system.

First Review Session	
Date	20 September 2011
Time	1600-1800
Location	UMP
Description	We have discussed about the requirement for PRECEBC system. Some functionality is request by representative of PREC for their system. With constraints, they claimed that will make their system more to be systematic.

Table 3.1 : First Review Session

Second Review Session	
Date	1 October 2011

Time	1200-1500
Location	Gambang
Description	We have discussed about progress of development. A document called Software development design (SDD) have been done and presented to client. The client making correction for wrong requirements.

Table 3.2 : Second Review Session

Third Reviews Session	
Date	4 November 2011
Time	1400-1800
Location	Gambang
Description	The prototype of system has been done and it has been present to client for reviews.

Table 3.3 : Third Reviews Session

Fourth Review Session	
Date	18 December 2011
Time	1200-1500
Location	UMP
Description	The correction prototype of system has been presented to client.

Table 3.4: Fourth Review Session

3.5 Construction

In construction phase, the activities coding in the system and the database is very important. The development of this system based on the several modules. There are log in and registration, staff management, event management.

When all modules are developed, it will go through the integration phase and all the sub modules in every module will be integrated into a complete system. During the construction phase, testing is always carried on to make sure every particular function can work as well. For more detail about Construction phase, it will be discuss on chapter 4. Figure 3.3 shown example coding.

```
<?php
/* This code is to make connection with mysql database
*/
$host = "localhost";
$user = "root";
$pass = "";
$dbse = "tanedu";
$connect = mysql_connect($host, $user, $pass) or die("Cannot connect
database");
mysql_select_db($dbse) or die("Cannot select the database");|
?>
```

Figure3.3:Code for validation of login

3.6 Cutover

Cutover is started when construction phase was done. By this phase, many of testing will be carried to testing will be done to test the system. The testing such as unit testing, integration testing and system testing will be done in this phase. For unit testing, it concern on module testing which included functionality and non-functionality of the module.

After unit testing have been done, integration testing will carried out to test the integration function between modules. This testing useful since it test for the success of integration and interaction between different modules. System testing is the last part for this phase. In this state, whole system will be undergoes testing to ensure that system can work as well and eliminate all erroneous problem when error have been found. For evaluate the system during testing phase, the test case (Figure3.4) will be used for PR Excellent Creative (PRECEBC).

TEST CASE			
Tested By:			
Test Type:			
Test Case ID:			
Test Case Description:			
Item(s) to be tested			
1			
2			
SPECIFICATION			
Test Inputs	**Inputs**	**Expected results**	**Pass/Fail**
Notes and Questions:			

Figure3.4:Example of test cases

3.7 Software and Hardware Specification

In the development of PR Excellent Creative Webpage with integrated Event Budget Calculator (PRECEBC), there are several things that should be prepares early for smoothing the process. There are hardware and software. Hardware is the physical aspect of the computer whereas software is the general term or part for the various kinds of program used to operate computer and other devices

3.7.1 Software Item

Development Phase	**Software**	**Purpose**
Construction phase	• Adobe Dreamweaver CS5 • Microsoft visual studio 2010 • Adobe Flash	System interface design and coding implementation.
Inception phase and Elaboration phase	• Microsoft Office Word 2010 • Microsoft Office PowerPoint 2010 • Microsoft Office Project 2010 • Microsoft Office Visio 2010	Documentation, presentation, project planning and scheduling.
Construction Phase	• XAMPP	Database Platform
Transition Phase	• WinRAR 4.00	File compression
Inception Phase	• Window 7 Home	Operating system to be

Elaboration Phase Construction Phase Transaction Phase	Basic	used in system development
Inception Phase Elaboration Phase	• Microsoft Visio 2010	UML modeling and designing.

Table3.5: Software Item

3.7.2 Hardware Item

Item	Specification	Purpose
Laptop	Intel(R) Core (TM) i5 CPU M450@2.40GHz	To run the system
Printer	HP Deskjet D2660	Print the resource and documentation
USB Flash	Imation 4GB data traveler	Transferring data

Table3.6: Hardware Item

3.8 Conclusion

The development tools, programming language, software and hardware specification are also selected out for the development of the system. PRECEBC is developed by using Rapid Application Development (RAD) model which consists four phases. RAD model consists of requirement planning, design, construction and cutover.

CHAPTER 4

IMPLEMENTATION

4.1 Introduction

This chapter is discussing on the system implementation phase. PRECEBC is using structure programming to implement, so in this chapter discussing on the DFD diagram level-1 and DFD diagram level-2 for every module. DFD diagram describing every function in details for every module, it is easier to develop the system when refer to these DFD diagram. There are two main users for PRECEBC which is admin and members, so come out with two (2) classes of DFD diagrams. PRECEBC database is shown in this chapter to easier developer to develop the database.

4.2 DFD for Login by Administrator

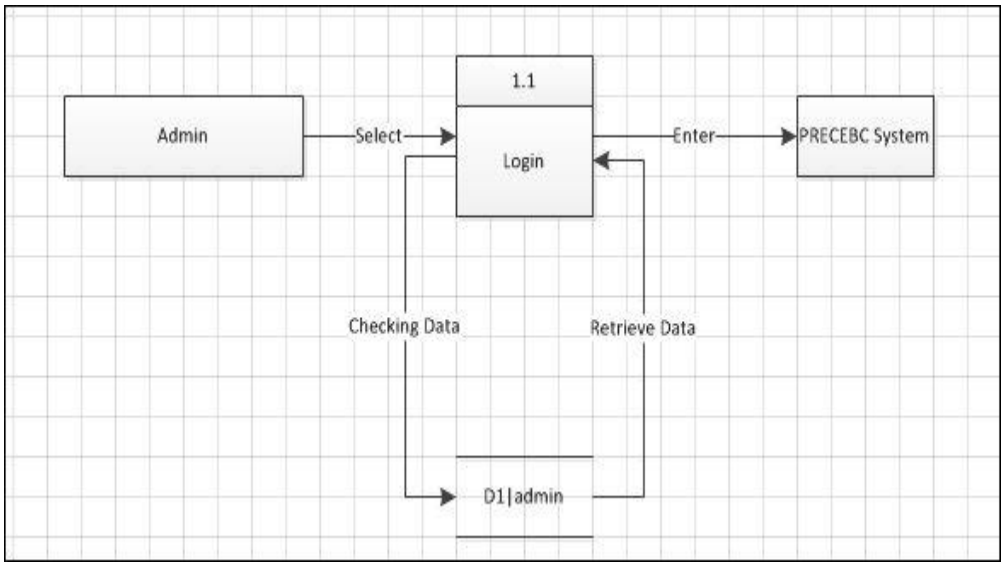

Figure 4.1: DFD Level 1 for Data Process 1.0, Login by Administrator

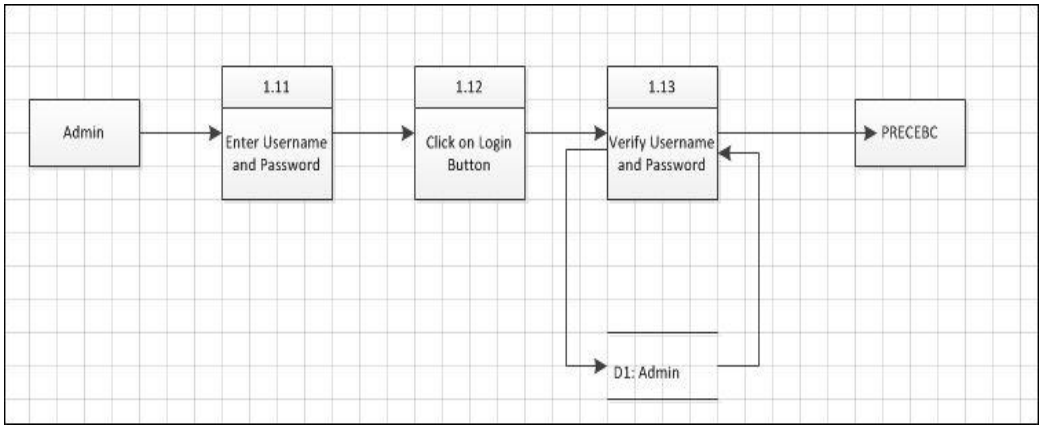

Figure 4.2: DFD Level 2 for Data Process 1.1, Login by Administrator

4.2.1 Brief Description

This state is allows administrator to log in to the system. It only will fully function if administrator enters the correct username and password.

4.2.1.1 Pseudo code for Login by Administrator

1.0 BEGIN

2.0 IF USERNAME = NULL || PASSWORD = NULL

3.0 THEN Error Message shown

4.0 ELSE Check Database

4.1 IF USERNAME = USERNAME (Database) && PASSWORD = PASSWORD (Database)

4.2 THEN Information message “Login Success” is shown

4.3 ELSE Information message “incorrect username or password” is shown

5.0 End

4.2.2 DFD for Event Management by Administrator

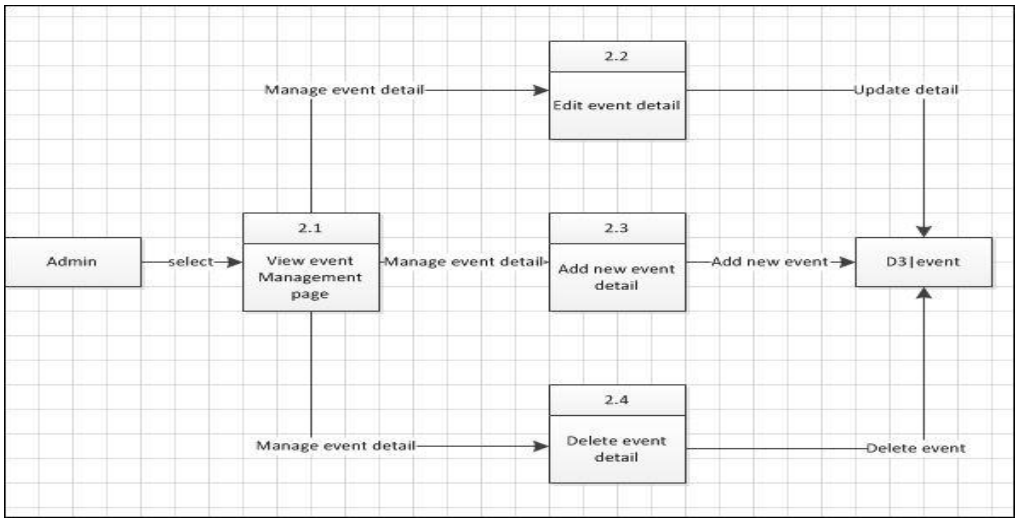

Figure 4.3: DFD Level 1 for Data Process 2.0, Event Management by Administrator

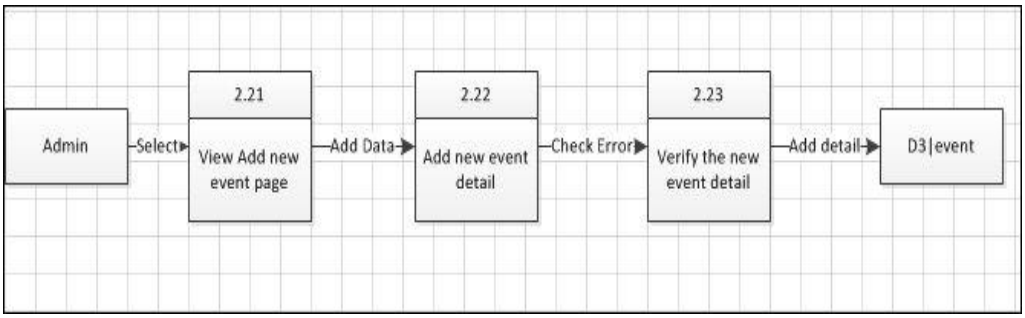

Figure 4.4: DFD Level 2 for Data Process 2.2, Event Management by Administrator

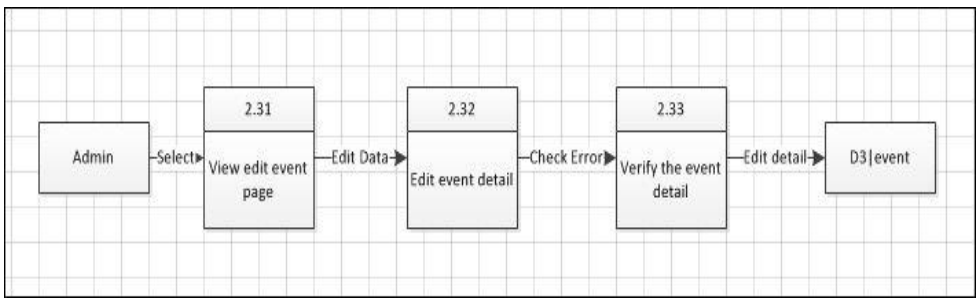

Figure 4.5: DFD Level 2 for Data Process 2.3, Event Management by Administrator

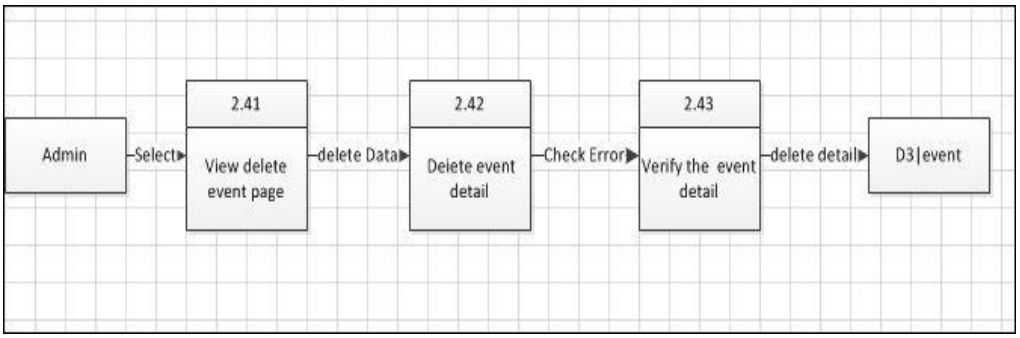

Figure 4.6: DFD Level 2 for Data Process 2.4, Event Management by Administrator

4.2.2.1 Brief Description

In Event Management page, administrator can manage the event information which can add, delete and edit the information of event.

4.2.2.2 Pseudo code for Event Management by Administrator

4.2.2.2.1 View Event Management

```
1.0  BEGIN
2.0  IF event_id = NULL
3.0  THEN Error Message shown
4.0   ELSE Check Database
        4.1  IF event_id = event_id (Database)
```

4.2 THEN Information related to the selection made is shown in the list provided

4.3 ELSE Information message “No record found” is shown

5.0 END

4.2.2.2.2 Add New Event

1.0 BEGIN

2.0 event_id = NULL

3.0 THEN Error Message shown

4.0 ELSE Check Database

4.1 IF event_id = event_id (Database)

4.2 THEN Information message “EVENT ALREADY EXIST” is shown

4.3 ELSE Data successful stored in database

5.0 END

4.2.2.2.3 Update New Event

1.0 BEGIN

2.0 IF event_id = NULL

3.0 THEN Error Message shown

4.0 ELSE Check Database

4.1 IF event_id = event_id (Database)

4.2 THEN Information message “Data updated” is shown

4.3 ELSE Error message “Update is unsuccessful” is shown

5.0 END

4.2.2.2.4 Delete Event Information

1.0 BEGIN

2.0 IF event_id = NULL

3.0 THEN Error Message is shown

4.0 ELSE Check Database

4.1 IF event_id = event_id (Database)

4.2 THEN Information message “Data Deleted” is shown

4.3 ELSE Error message “Delete is unsuccessful” is shown

5.0 END

4.2.3 DFD for Gallery Management by Administrator

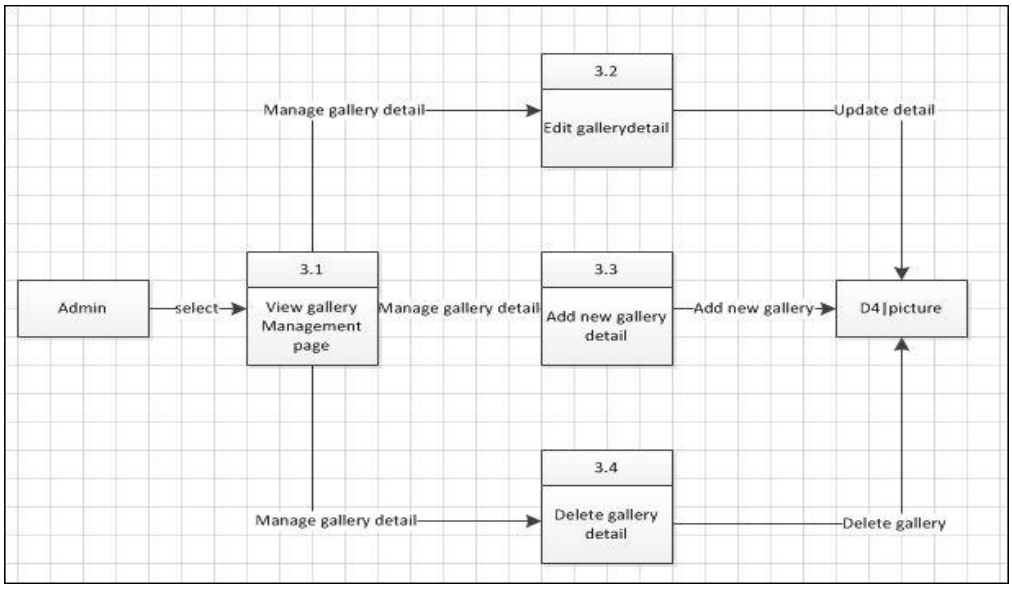

Figure 4.7: DFD Level 1 for Data Process 3.0, Gallery Management by Administrator

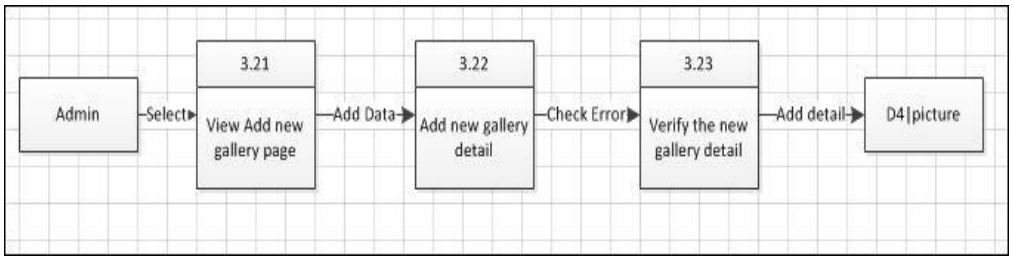

Figure 4.8: DFD Level 2 for Data Process 3.2, Gallery Management by Administrator

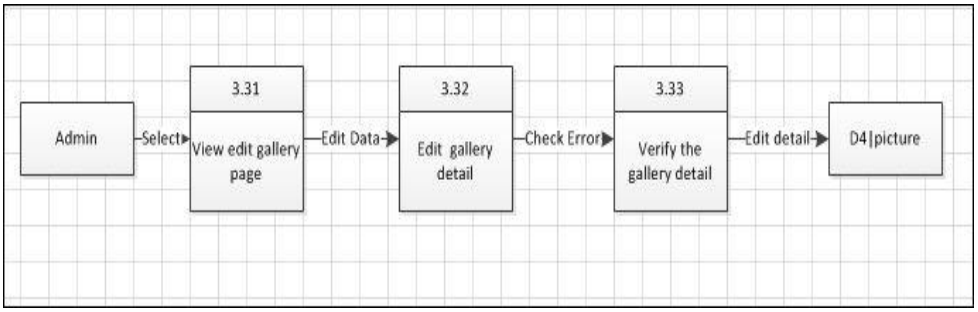

Figure 4.9: DFD Level 2 for Data Process 3.3, Gallery Management by Administrator

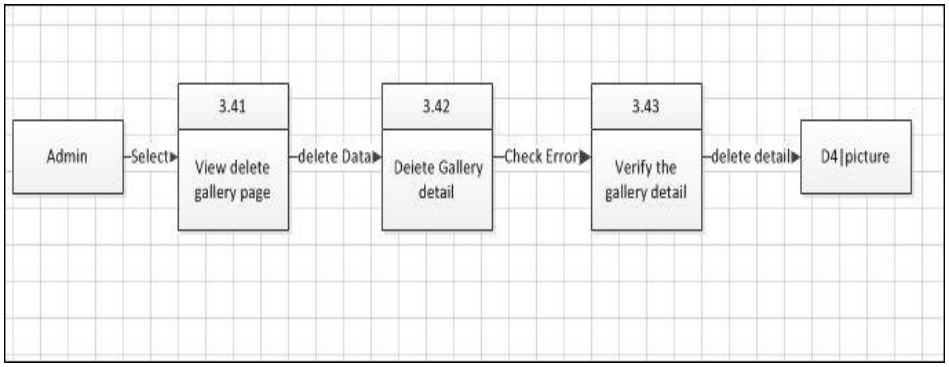

Figure 4.10: DFD Level 2 for Data Process 3.4, Gallery Management by Administrator

4.2.3.1 Brief Description

In Gallery Management page, administrator can manage the gallery information which can add, delete and edit the information of gallery.

4.2.3.2 Pseudo code for Gallery Management by Administrator

4.2.3.2.1 View Picture Management

1.0 BEGIN

2.0 IF picture_id = NULL

3.0 THEN Error Message shown

4.0 ELSE Check Database

4.1 IF picture_id = picture_id (Database)

4.2 THEN Information related to the selection made is shown in the list provided

4.3 ELSE Information message “No record found” is shown

5.0 END

4.2.3.2.2 Add New Gallery

1.0 BEGIN

2.0 picture_id = NULL

3.0 THEN Error Message shown

4.0 ELSE Check Database

4.1 IF picture_id = picture_id (Database)

4.2 THEN Information message “GALLERY ALREADY EXIST” is shown

4.3 ELSE Data successful stored in database

5.0 END

4.2.3.2.3 Update New Gallery

1.0 BEGIN

2.0 IF picture_id = NULL

3.0 THEN Error Message shown

4.0 ELSE Check Database

4.1 IF picture_id = picture_id (Database)

4.2 THEN Information message “Data updated” is shown

4.3 ELSE Error message “Update is unsuccessful” is shown

5.0 END

4.2.3.2.4 Delete Gallery Information

1.0 BEGIN

2.0 IF picture_id = NULL

3.0 THEN Error Message is shown

4.0 ELSE Check Database

4.1 IF picture_id = picture_id (Database)

4.2 THEN Information message “Data Deleted” is shown

4.3 ELSE Error message “Delete is unsuccessful” is shown

5.0 END

4.2.4 DFD for Job Management by Administrator

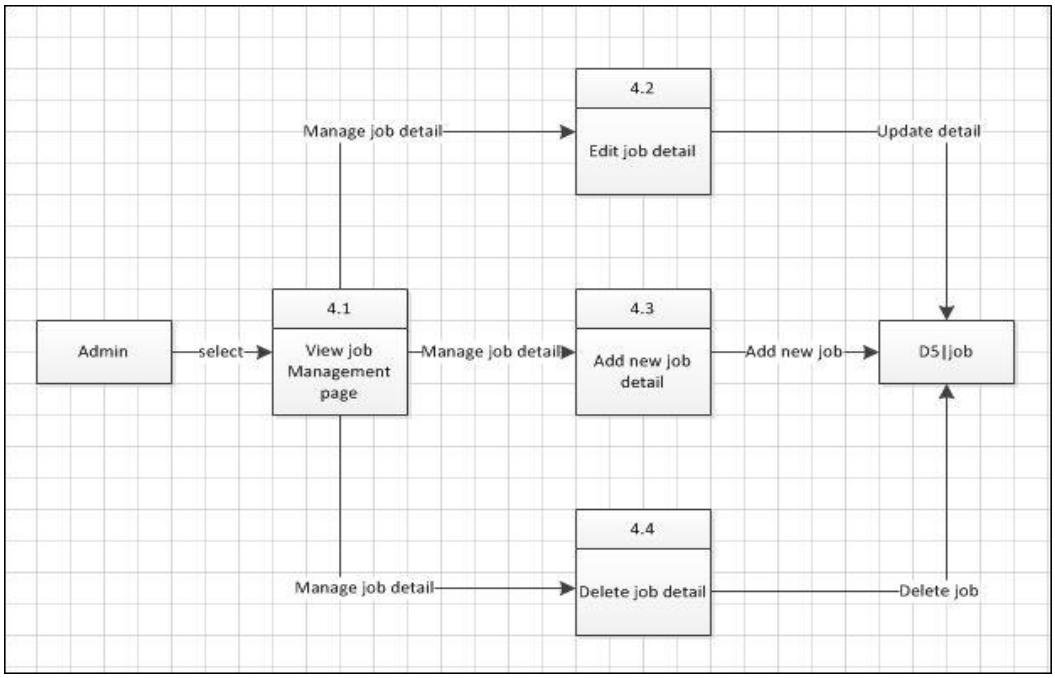

Figure 4.11: DFD Level 1 for Data Process 4.0, Job Management by Administrator

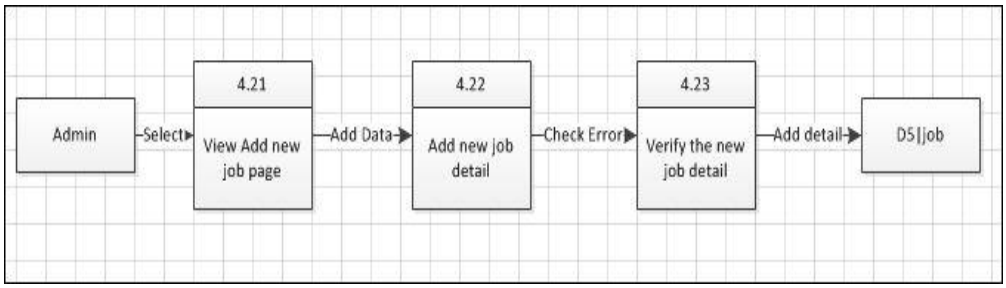

Figure 4.12: DFD Level 2 for Data Process 4.2, Job Management by Administrator

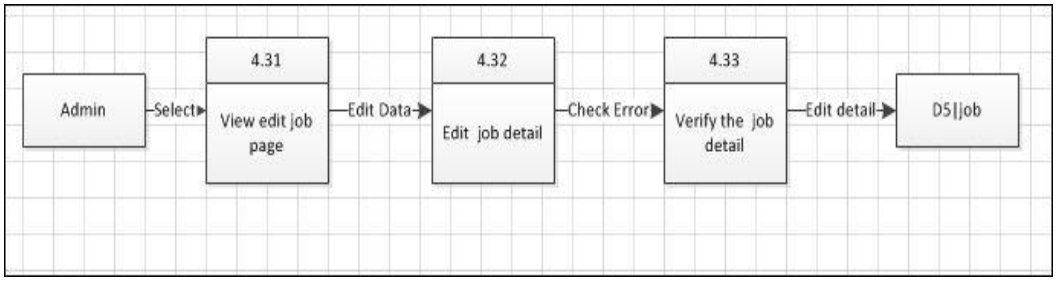

Figure 4.13: DFD Level 2 for Data Process 4.3, Job Management by Administrator

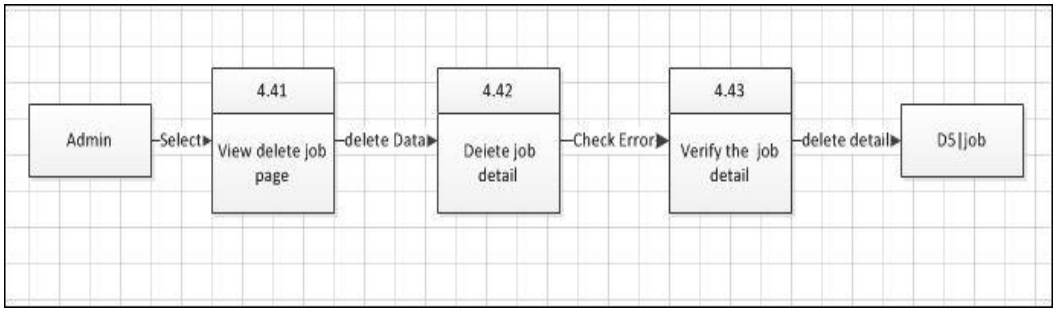

Figure 4.14: DFD Level 2 for Data Process 4.4, Job Management by Administrator

4.2.4.1 Brief Description

In Job Management page, administrator can manage the job information which can add, delete and edit the information of job.

4.2.4.2 Pseudo code for Job Management by Administrator

4.2.4.2.1 View Job Management

1.0 BEGIN

2.0 IF job_id = NULL

3.0 THEN Error Message shown

4.0 ELSE Check Database

4.1 IF job_id = job_id (Database)

4.2 THEN Information related to the selection made is shown in the list provided

4.3 ELSE Information message “No record found” is shown

5.0 END

4.2.4.2.2 Add New Job

1.0 BEGIN

2.0 job_id = NULL

3.0 THEN Error Message shown

4.0 ELSE Check Database

4.1 IF job_id = job_id (Database)

4.2 THEN Information message “JOB ALREADY EXIST” is shown

4.3 ELSE Data successful stored in database

5.0 END

4.2.4.2.3 Update Job

1.0 BEGIN

2.0 IF job_id = NULL

3.0 THEN Error Message shown

4.0 ELSE Check Database

4.1 IF job_id = job_id (Database)

4.2 THEN Information message “Data updated” is shown

4.3 ELSE Error message “Update is unsuccessful” is shown

5.0 END

4.2.4.2.4 Delete Job Information

1.0 BEGIN

2.0 IF job_id = NULL

3.0 THEN Error Message is shown

4.0 ELSE Check Database

4.1 IF job_id = job_id (Database)

4.2 THEN Information message “Data Deleted” is shown

4.3 ELSE Error message “Delete is unsuccessful” is shown

5.0 END

4.2.5 DFD for Video Management by Administrator

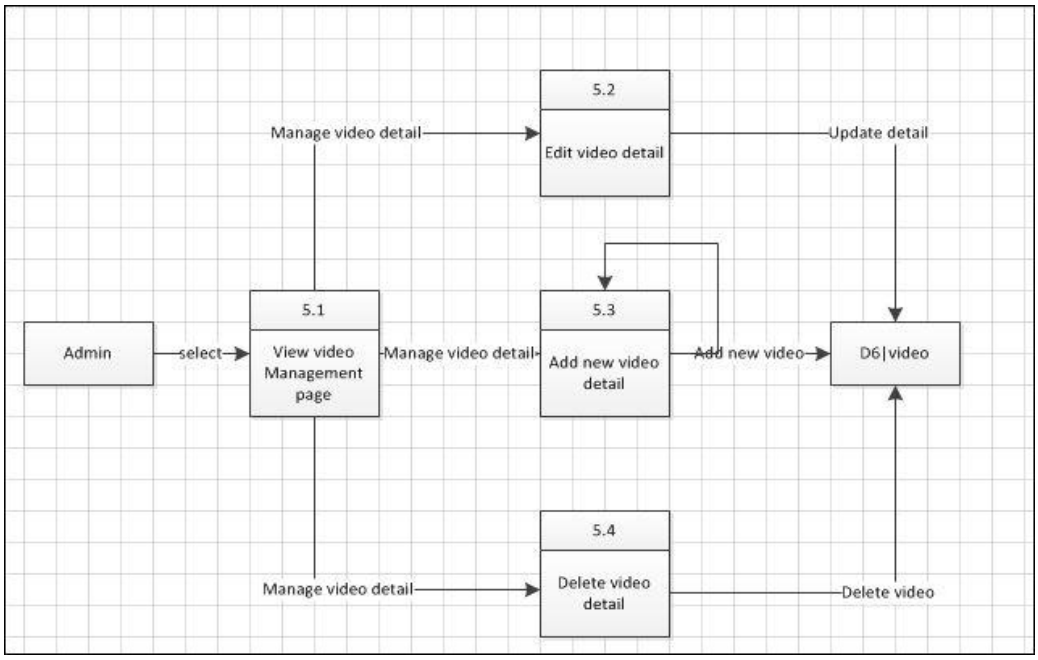

Figure 4.15: DFD Level 1 for Data Process 5.0, Video Management by Administrator

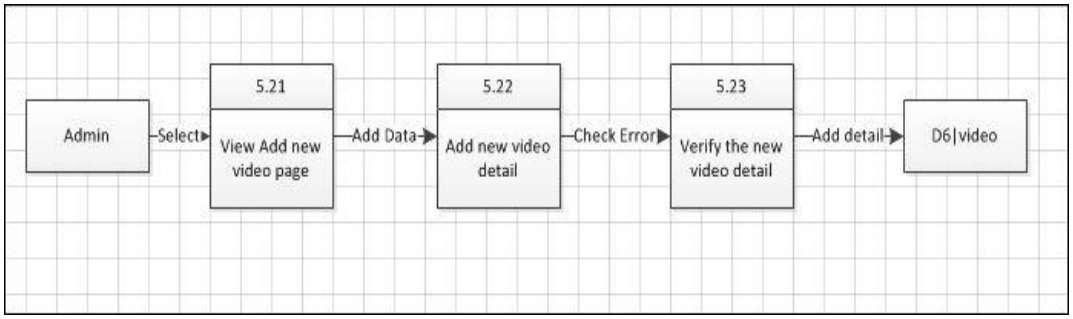

Figure 4.16: DFD Level 2 for Data Process 5.2, Video Management by Administrator

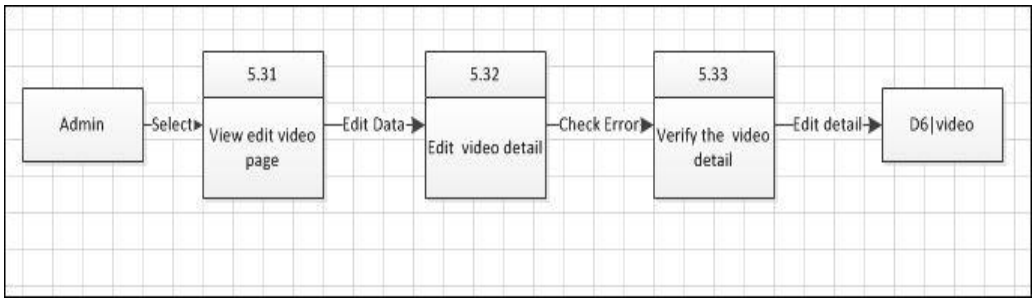

Figure 4.17: DFD Level 2 for Data Process 5.3, Video Management by Administrator

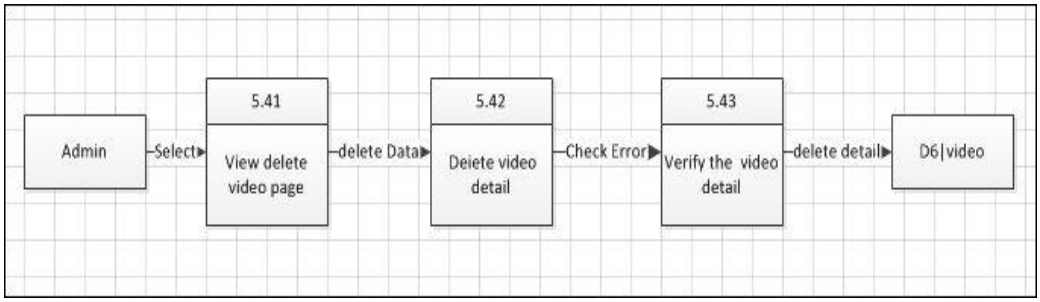

Figure 4.18: DFD Level 2 for Data Process 5.4, Video Management by Administrator

4.2.5.1 Brief Description

In Video Management page, administrator can manage the video information which can add, delete and edit the information of video.

4.2.5.2 Pseudo code for Video Management by Administrator

4.2.5.2.1 View Video Management

1.0 BEGIN

2.0 IF video_id = NULL

3.0 THEN Error Message shown

4.0 ELSE Check Database

4.1 IF video_id = video_id (Database)

4.2 THEN Information related to the selection made is shown in the list provided

4.3 ELSE Information message “No record found” is shown

5.0 END

4.2.5.2.2 Add Video

1.0 BEGIN

2.0 video_id = NULL

3.0 THEN Error Message shown

4.0 ELSE Check Database

4.1 IF video_id = video_id (Database)

4.2 THEN Information message “VIDEO ALREADY EXIST” is shown

4.3 ELSE Data successful stored in database

5.0 END

4.2.5.2.3 Update Video

1.0 BEGIN

2.0 IF video_id = NULL

3.0 THEN Error Message shown

4.0 ELSE Check Database

4.1 IF video_id = video_id (Database)

4.2 THEN Information message “Data updated” is shown

4.3 ELSE Error message “Update is unsuccessful” is shown

5.0 END

4.2.5.2.4 Delete Video Information

1.0 BEGIN

2.0 IF video_id = NULL

3.0 THEN Error Message is shown

4.0 ELSE Check Database

4.1 IF video_id = video_id (Database)

4.2 THEN Information message “Data Deleted” is shown

4.3 ELSE Error message “Delete is unsuccessful” is shown

5.0 END

4.2.6 DFD for Login by Member

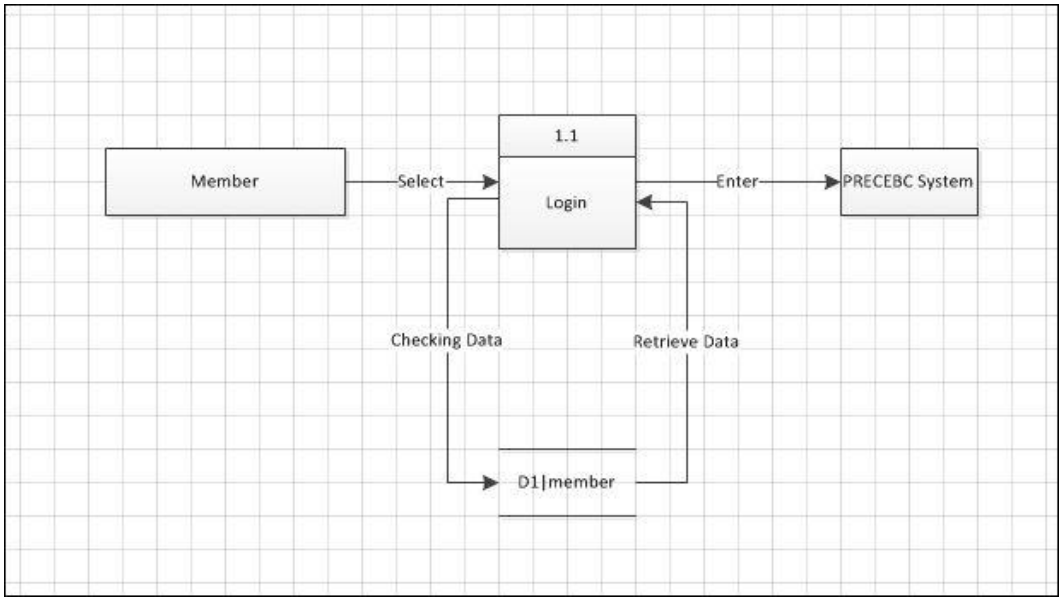

Figure 4.19: DFD Level 1 for Data Process 1.0, Login by Administrator

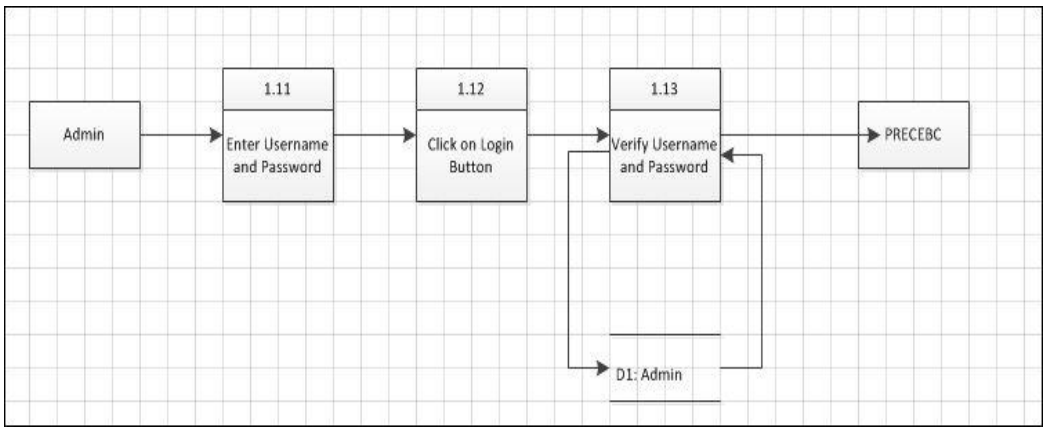

Figure 4.20: DFD Level 2 for Data Process 1.1, Login by Administrator

4.2.6.1 Brief Description

This state is allows member to log in to the system. It only will fully function if member enters the correct username and password.

4.2.6.2 Pseudo code for Login by Member

1.0 BEGIN

2.0 IF USERNAME = NULL || PASSWORD = NULL

3.0 THEN Error Message shown

4.0 ELSE Check Database

4.1 IF USERNAME = USERNAME (Database) && PASSWORD = PASSWORD (Database)

4.2 THEN Information message “Login Success” is shown

4.3 ELSE Information message “incorrect username or password” is shown

5.0 End

4.3 Database Implementation

PREBC is information system base software, so the database design on PRECEBC is very important implementation part. Database design for PRECEBC consists of SIX (6) main tables. From Table 4.1 to Table 4.6 are the tables that allocated in PRECEBC database.

Column Name	Data Type	Null
id	Int(200)	NOT NULL
username	Varchar(200)	NOT NULL
password	Varchar(200)	NOT NULL
address	Varchar(200)	NOT NULL
state	Varchar(200)	NOT NULL
postcode	Varchar(200)	NOT NULL
gender	Varchar(200)	NOT NULL
email	Varchar(200)	NOT NULL
status	Varchar(200)	NOT NULL

Table 4.1: member table design

Column Name	Data Type	Allow Nude
event_id	Int(200)	NOT NULL
event_name	Varchar(200)	NOT NULL
event_type	Varchar(200)	NOT NULL
event_startadate	Varchar(200)	NOT NULL
event_enddate	Varchar(200)	NOT NULL
description	Text	NOT NULL
Image	Varchar(200)	NOT NULL

Table 4.2: event table design

Column Name	Data Type	Null
Picture_id	Int(200)	NOT NULL
Event_id	Int(200)	NOT NULL

Image	Varchar(200)	NOT NULL

Table 4.3: gallery table design

Column Name	Data Type	Null
job_id	Int(200)	NOT NULL
Job_name	Varchar(200)	NOT NULL
location	Varchar(200)	NOT NULL
company	Varchar(200)	NOT NULL
started_date	Varchar(200)	NOT NULL
end_date	Varchar(200)	NOT NULL
working_time	Varchar(200)	NOT NULL
salary	Int(200)	NOT NULL

Table 4.4: job table design

Column Name	Data Type	Null
video_id	Int(200)	NOT NULL
video_name	Varchar(200)	NOT NULL
video_description	Text	NOT NULL
video_link	Varchar(200)	NOT NULL

Table 4.5: video table design

Column Name	Data Type	Null
apply_no	Int(200)	Not NULL
id	Int(200)	Not NULL
job_id	Int(200)	Not NULL

Table 4.6: apply_job table design

CHAPTER 5

RESULT, DISCUSSION AND CONCLUSION

5.1 Introduction

This chapter is discussed on the result output of the PRECEBC. There are six (6) main modules in PRECBEC, every module will have their own interface like Figure 5.1 and is tested by using correct inputs and wrong outputs to make sure it can come out with correct outputs. The testing part is to make sure PRECEBC free from any errors based on the inputs users made and make sure the error handling is work. There are several advantages and disadvantages by using PRECEBC. Constraints when using PRECEBC had been stated in this chapter. Finally, the assumption and further research are stated in details. The minimum requirement to run PRECEBC is run in a computer with internet browser.

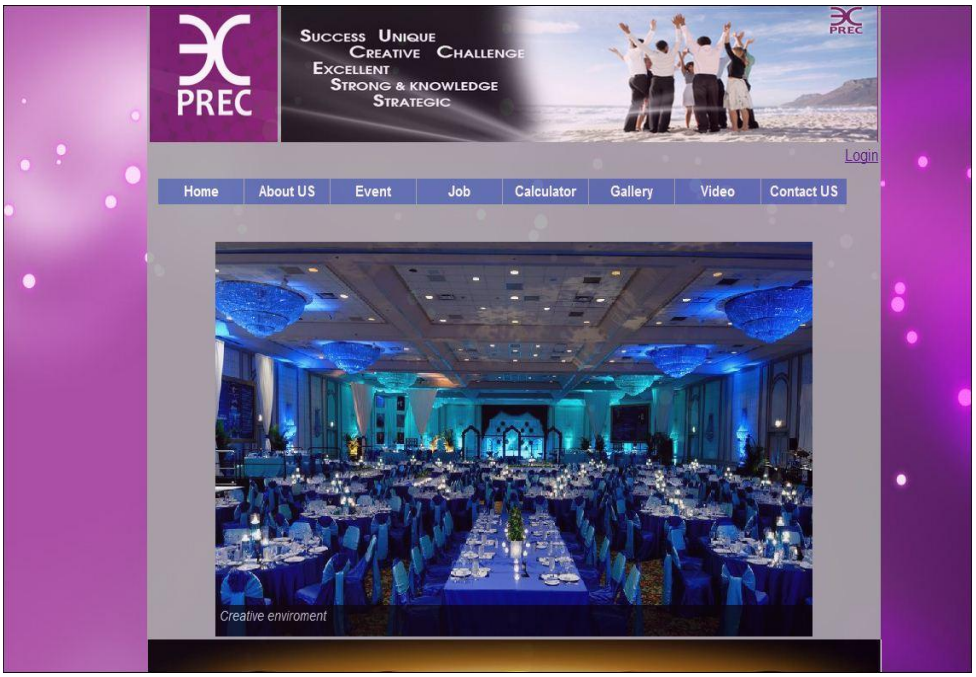

Figure 5.1 : Example interface for Home page

5.2 Test Result

The testing phase was completed by construct test cases to test the inputs and outputs. Units testing which is test by modules is used to make sure all modules does not have any error occur when user using PRECEBC.

Testing is carry out by module and every function in the particular module, Table 5.1 shown the problems category, correct outputs, and successful rate for the testing based on the functions.

Problem category	**Correct output**	**Successful rate**
Users registration	15/15	100%

Calculator correctness	15/15	100%
New event information	15/15	100%
New job information	15/15	100%

Table 5.1: Test result

As shown in Table 4.1, the problem category is based on the function of the module while 15 times of testing is carry on to make sure it give correct output. The success rate of every testing is fully success, so it is error free after the implementation is done.

5.2.1 Module

There are three sub modules are tested, which are user registration, event management, advertising management.

5.2.1.1 User Registration Test

TEST CASE	
Tested By:	Lee Soon LI
Test Type:	Functional Testing
Test Case ID:	User registration test
Test Case Description:	User allows to registers as member.
Item(s) to be tested	
1	username
2	password
3	address

4	state
5	postcode
6	gender
7	email

Specification

Test Inputs	**Inputs**	**Expected output/results**	**Pass/Fail**
TEST-1-1	“lim” , “890216”,”Taman indah”, “malacca” , “78000”, “Male” , “Lim@yahoo.com”	Info message “Registered success” is shown.	Pass
TEST-1-2	“lim” , “890216”,”Taman indah”, “malacca” , “78000”, “Male” , “Lim@yahoo.com”	Info message “Username already exist” is shown.	Pass
TEST-1-3	“ ” , “ ”,”Taman indah”, “malacca” , “78000”, “Male” , “Lim@yahoo.com”	Info message “Not Allow Empty” is shown.	Pass

TEST-1-4	“wendy” , “890216”,”Taman indah”, “malacca” , “78000”, “Female” , “ ”	Info message “Not Allow empty” is shown.	Pass
TEST-1-5	“lim” , “ ”,”Taman indah”, “malacca” , “78000”, “Male” , “Lim@yahoo.com””	Info message “Not allow empty” is shown.	Pass
Procedural Step			
1. click on registration link 2. Filling on the data in the form. 3. Press submit button 4. register success			

Figure 5.2 User Registration Management

5.2.1.2 Event Management

TEST CASE	
Tested By:	Lee Soon Li
Test Type:	Functional Testing

Test Case ID:	Event management
Test Case Description:	Administrators allow managing event detail.
Item(s) to be tested	
1	event_name
2	event_type
3	description
4	image

Specification

Test Inputs	**Inputs**	**Expected output/results**	**Pass/Fail**
TEST-2-1	“IBM” , “PRODUCT / CORPORATE LAUNCHING / OPENING CEREMORNY” , “Ceremony”	Info message “new event updated ” is shown.	Pass
TEST-2-2	“ ” , “PRODUCT / CORPORATE LAUNCHING / OPENING CEREMORNY” , “Ceremony”	Info message “not allow empty” is shown.	Pass
TEST-2-3	“” , “ Select ” , “Ceremony”	Info message “not allow empty” is shown.	Pass

TEST-2-4	"PREC Anniversary" , "PRODUCT / CORPORATE LAUNCHING / OPENING CEREMORNY" , " "	Info message "not allow empty" is shown.	Pass
TEST-2-5	"Conference", "MEETINGS, SEMINARS, CONFERENCES AND CONVENTIONS", "Conference"	Info message "new event updated" is shown.	Pass
Procedural Step			
1. Click on new event menu. 2. Filling on the data in the form. 3. Press submit button 4. event update success			

Figure 5.3 Event Management Test Case

5.2.1.3 Job Management

TEST CASE	
Tested By:	Lee Soon Li
Test Type:	Functional Testing

Test Case ID:	job management
Test Case Description:	Administrators allow to managing new job detail.
Item(s) to be tested	
1	job_name
2	location
3	company
4	started_date
5	end_date
6	working_time
7	salary

Specification

Test Inputs	**Inputs**	**Expected output/results**	**Pass/Fail**
TEST-3-1	“Mamee Promoter”, “Kuantan Parade”, “Mamee”, “16-5-2012”, “20-5-2012”, “1000-1800”, RM10 per hour	Info message “new job updated” is shown.	Pass
TEST-3-2	“Brand Promoter”, “Kuantan Parade”, “Mamee”,	Info message “new job updated” is shown. .	Pass

	“16-6-2012”, “20-8-2012”, “1000-1800”, RM60 per days		
TEST-3-3	“ ”, “Kuantan Parade”, “Mamee”, “16-6-2012”, “20-8-2012”, “1000-1800”, RM60 per days	Info message “not empty allowed” is shown. .	Pass
TEST-3-4	“ ”, “”, “Mamee”, “16-6-2012”, “20-8-2012”, “1000-1800”, RM60 per days	Info message “not empty allow” is shown. .	Pass
TEST-3-5	“ ”, “”, “Mamee”, “16-6-2012”, “15-6-2012”, “1000-1800”, RM60 per days	Info message “Invalid input” is shown.	Pass
Procedural Step			
1. Click on new job menu. 2. Filling on the data in the form. 3. Press submit button 4. New job update success.			

Figure 5.4 Job Management Test Cases

5.3 Assumptions

The assumptions that were taken in consideration during the development of PRECEBC are:

i. The information that to be saved into database should be confirmed before it is saved in database to make sure the correctness of the system to give a correct output.

ii. User must been trained or familiar to this system before operate it to make sure there no wrong information to be stored in database because of the user mistaken.

5.4 Assumptions and Further Research

Several assumptions have to be considered along with the development of this system in evaluation of the system's accuracy. In the view for the disadvantages stated, further research should be carried out to enhance the current research. Making the possibility to deliver the system in order to provide complete, efficiency and consistent to the user in real business environment.

5.5 Summary

This chapter is discussed on the result output of the PRECEBC. The testing part is to make sure PRECEBC free from any errors based on the inputs users made and make sure the error handling is work. There are several advantages and disadvantages by using PRECEBC. Constraints when using PRECEBC had been stated in this chapter. Finally, the assumption and further research are stated in details.

5.6 Conclusion

As conclusion, PR excellent Creative Webpage integrated With Event Budget Calculator will provide an online management system which to help increase the efficiency and productivity of company. These webpage is consists of multiple purpose. The most important is to help PR Excellent Creative to archive the company vision as soon as possible. It will helps to change PR Excellent Creative to be more standardize and systematic. On the other hand.it helps the customer and visitor more understand about the company's operation and the service provided by PR Excellent Creative. For additional, PR Excellent Creative had decide to make an event budget calculator to help his client to estimate the current budget for their event.

The development tools, programming language, software and hardware specification are also selected out for the development of the system. PRECEBC is developed by using Rapid Application Development (RAD).Several assumptions have to be considered along with the development of this system in evaluation of the system's accuracy. In the view for the disadvantages stated, further research should be carried out to enhance the current research. Making the possibility to deliver the system in order to provide complete, efficiency and consistent to the user in real business environment.

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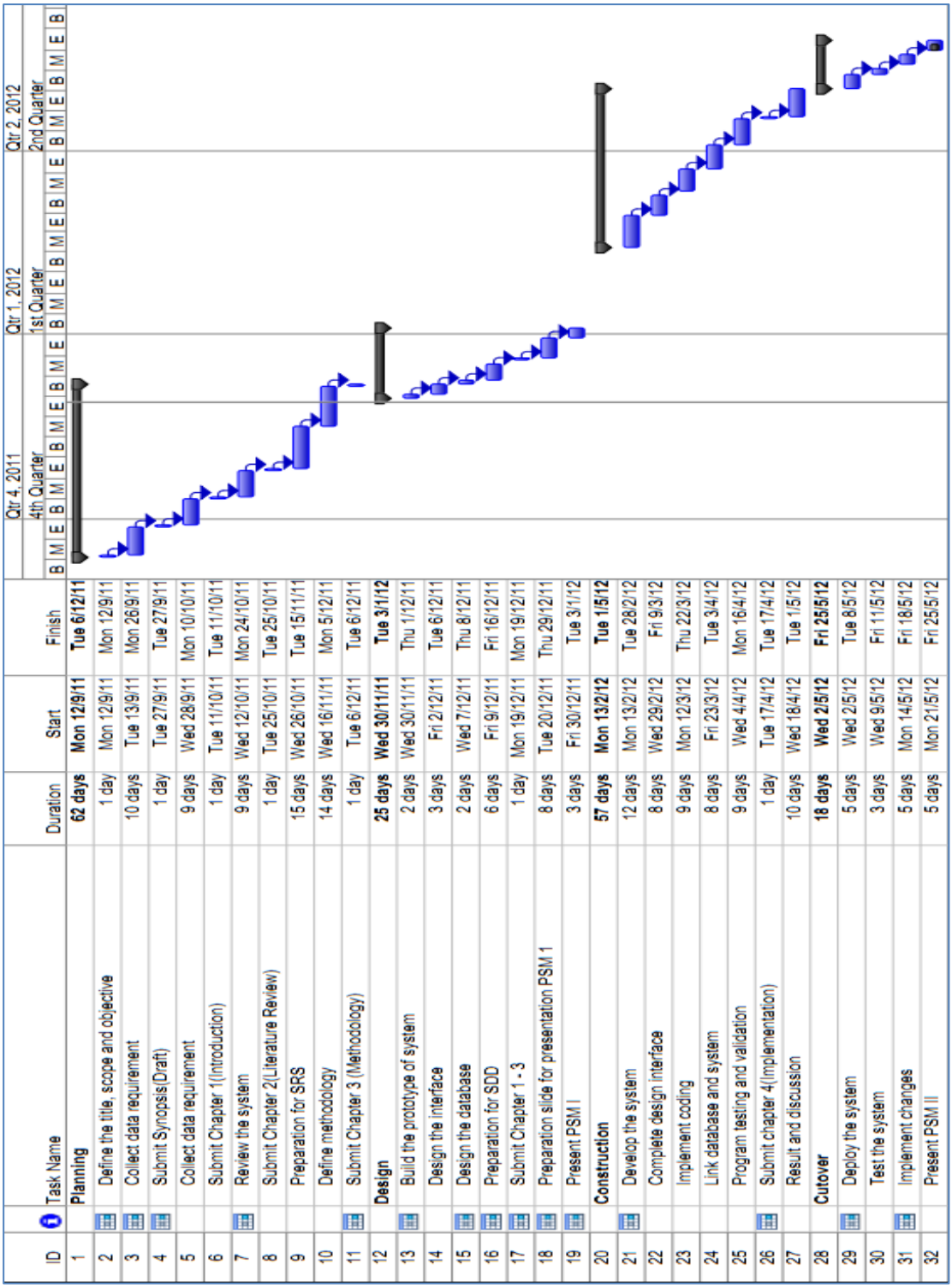
APPEDIX A

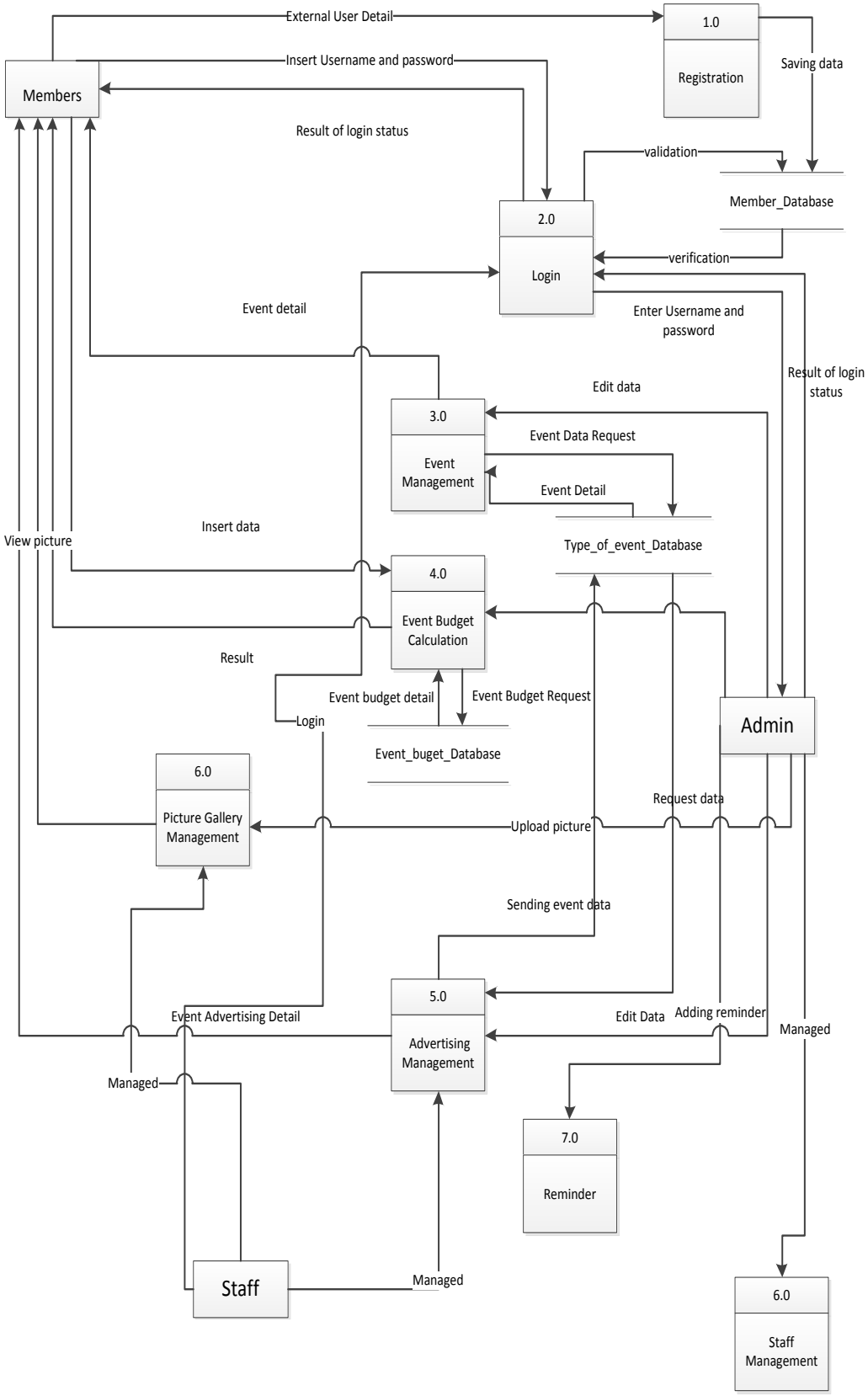
GRANT CHART



ID	Task Name	Duration	Start	Finish
1	**Planning**	**62 days**	**Mon 12/9/11**	**Tue 6/12/11**
2	Define the title, scope and objective	1 day	Mon 12/9/11	Mon 12/9/11
3	Collect data requirement	10 days	Tue 13/9/11	Mon 26/9/11
4	Submit Synopsis(Draft)	1 day	Tue 27/9/11	Tue 27/9/11
5	Collect data requirement	9 days	Wed 28/9/11	Mon 10/10/11
6	Submit Chapter 1(Introduction)	1 day	Tue 11/10/11	Tue 11/10/11
7	Review the system	9 days	Wed 12/10/11	Mon 24/10/11
8	Submit Chapter 2(Literature Review)	1 day	Tue 25/10/11	Tue 25/10/11
9	Preparation for SRS	15 days	Wed 26/10/11	Tue 15/11/11
10	Define methodology	14 days	Wed 16/11/11	Mon 5/12/11
11	Submit Chapter 3 (Methodology)	1 day	Tue 6/12/11	Tue 6/12/11
12	**Design**	**25 days**	**Wed 30/11/11**	**Tue 3/1/12**
13	Build the prototype of system	2 days	Wed 30/11/11	Thu 1/12/11
14	Design the interface	3 days	Fri 2/12/11	Tue 6/12/11
15	Design the database	2 days	Wed 7/12/11	Thu 8/12/11
16	Preparation for SDD	6 days	Fri 9/12/11	Fri 16/12/11
17	Submit Chapter 1 - 3	1 day	Mon 19/12/11	Mon 19/12/11
18	Preparation slide for presentation PSM 1	8 days	Tue 20/12/11	Thu 29/12/11
19	Present PSM I	3 days	Fri 30/12/11	Tue 3/1/12
20	**Construction**	**57 days**	**Mon 13/2/12**	**Tue 1/5/12**
21	Develop the system	12 days	Mon 13/2/12	Tue 28/2/12
22	Complete design interface	8 days	Wed 29/2/12	Fri 9/3/12
23	Implement coding	9 days	Mon 12/3/12	Thu 22/3/12
24	Link database and system	8 days	Fri 23/3/12	Tue 3/4/12
25	Program testing and validation	9 days	Wed 4/4/12	Mon 16/4/12
26	Submit chapter 4(Implementation)	1 day	Tue 17/4/12	Tue 17/4/12
27	Result and discussion	10 days	Wed 18/4/12	Tue 1/5/12
28	**Cutover**	**18 days**	**Wed 2/5/12**	**Fri 25/5/12**
29	Deploy the system	5 days	Wed 2/5/12	Tue 8/5/12
30	Test the system	3 days	Wed 9/5/12	Fri 11/5/12
31	Implement changes	5 days	Mon 14/5/12	Fri 18/5/12
32	Present PSM II	5 days	Mon 21/5/12	Fri 25/5/12

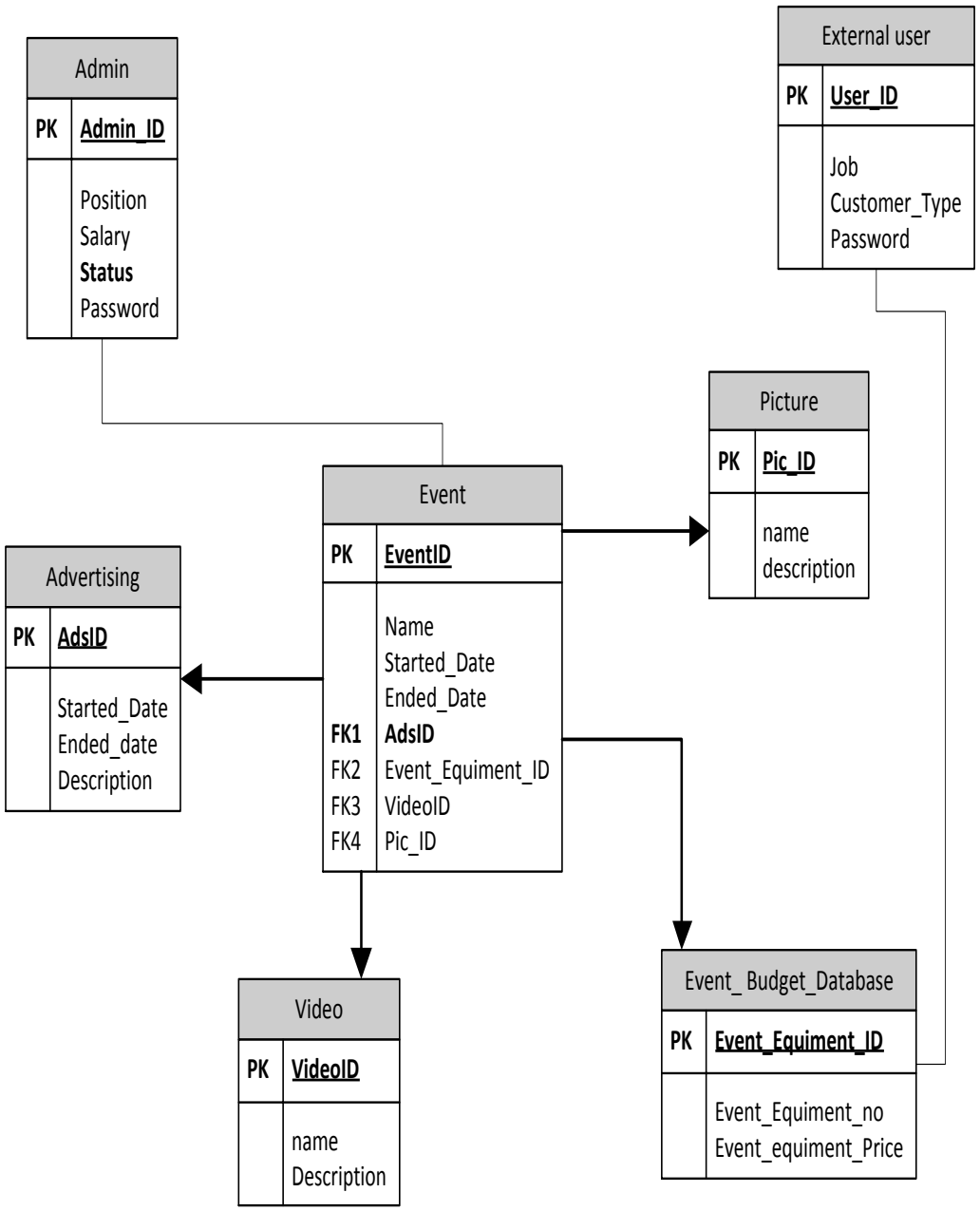
APPEDIX B

DATA FLOW DIAGRAM


External User Detail
1.0
Registration
Saving data
Members
Insert Username and password
Result of login status
validation
Member_Database
2.0
Login
verification
Event detail
Enter Username and password
Result of login status
Edit data
3.0
Event Management
Event Data Request
Event Detail
Insert data
View picture
Type_of_event_Database
4.0
Event Budget Calculation
Result
Event budget detail
Event Budget Request
Login
Admin
Event_buget_Database
6.0
Picture Gallery Management
Request data
Upload picture
Sending event data
5.0
Advertising Management
Event Advertising Detail
Edit Data
Adding reminder
Managed
Managed
7.0
Reminder
Staff
Managed
6.0
Staff Management

APPEDIX C

DATABASE MODEL DIAGRAM


Admin
PK
Admin_ID
Position
Salary
Status
Password
External user
PK
User_ID
Job
Customer_Type
Password
Picture
PK
Pic_ID
name
description
Event
PK
EventID
Name
Started_Date
Ended_Date
FK1
AdsID
FK2
Event_Equiment_ID
FK3
VideoID
FK4
Pic_ID
Advertising
PK
AdsID
Started_Date
Ended_date
Description
Video
PK
VideoID
name
Description
Event_ Budget_Database
PK
Event_Equiment_ID
Event_Equiment_no
Event_equiment_Price