

STUDENT MANAGEMENT SYSTEM

(SMS)

PUI HOCK YOUNG

A REPORT IN FULFILMENT OF THE REQUIREMENT FOR THE AWARDS OF THE DEGREE OF BACHELOR OF COMPUTER SCIENCE (COMPUTER SYSTEMS & NETWORKING) WITH HONOURS

FACULTY OF COMPUTER SYSTEM AND SOFTWARE ENGINEERING
UNIVERSITI MALAYSIA PAHANG

2014

ABSTRAK

Sistem Pengurusan Pelajar (SMS) adalah aplikasi perisian yang gunakan untuk mengurus maklumat pelajar dan data dalam sektor pendidikan. Sistem ini direka untuk sekolah rendah untuk membantu pentadbir dan guru-guru dalam pengurusan pelajar. Sistem Pengurusan Pelajar terdiri daripada empat modul termasuk Pendaftaran Guru, Maklumat pelajar dan ibu bapa, Keputusan Peperiksaan Pelajar, cadangan dan pemberitahuan melalui SMS. Guru-guru boleh menggunakan sistem ini untuk mendaftar maklumat murid dan ibu bapanya serta mengurus profil pelajar. Selain itu, guru boleh tengok prestasi keputusan pelajar melalui graf. Di samping itu, guru juga boleh menghantar keputusan pelajar kepada ibu bapa melalui Short Message Service (SMS). Bagi ibu bapa, mereka boleh login ke sistem dan melihat keputusan peperiksaan anak-anak mereka dan juga prestasi keputusan anaknya melalui graf juga. Sistem ini juga mumpunyai satu ruang untuk ibu bapa dan guru-guru berkomunikasi. Oleh itu, dengan menggunakan sistem ini boleh memberi manfaat kepada pentadbir, guru-guru dan ibu bapa.

ABSTRACT

Student Management System (SMS) is software application for the education that can be used to managed student information and data. This system is designed for primary school to help administrators and teachers in the management of students. Students Management System consists of four modules including Teachers, Students and Parents Profile, Student Exam Results, Comment Reply and SMS notification. Teachers can use this system to register information of student and managing parents and student profile. Teachers can view results of the students in graph format to know their performance. Besides that, teachers also can send the student results to parents through Short Message Service (SMS). For the parents, they can login to system and view their children examination results and also graph for know their performance. This system also provides a communication platform for parents and teachers. Thus, by using this system can benefits to administrators, teachers and parents.

TABLE OF CONTENTS

DECLARATIONi
SUPERVISOR DECLARATIONii
ACKNOWLEDGEMENTiii
ABSTRAKiv
ABSTRACTv
CHAPTER 1 INTRODUCTION 1
1.1 Introduction
1.2 Problem Statement
1.3 Objectives
1.4 Scopes
1.5 Studies Existing System
1.5.1 iSchool Management System
(a) System Description 5
(b) Problem in Existing System6
(c) Interfaces of SMS6
1.5.2 SchoolWorks Student Information System (SchoolWorks SIS)
(a) System Description
(b) Problems in Existing System
(c) Interfaces of SchoolWorks SIS
1.5.3 TMS School Management System 8
(a) System Description9
(b) Problems in Existing System10
(d) Interfaces of SMS
1.5.4 Comparison within Existing System
CHAPTER 2 REPORT BODY 12
2.1 Introduction
2.2 User Requirement
2.2.1 Parent Survey Form
2.2.2 Teacher Survey Form

2.2.3	Result Analysis of Survey	17
(a)	Result Analysis of Survey for Parents	17
(b)	Result Analysis of Survey for Parents	25
(c)	Conclusion of Result Analysis of Survey for Parents and Teachers	s35
2.3 I	Design Description (Methodology)	36
2.3.1	Types of Methodology	36
2.3.2	Methodology Student Management System - Spiral Model	39
(a)	Identification	39
(b)	Design	40
(c)	Construct or Build	40
(d)	Evaluation and Risk Analysis	40
2.4	Design Description	41
2.4.1	Use Case Diagram	41
2.4.2	Dialogue Diagram	42
2.4.3	Activity Diagram	44
2.4.4	System Flow Diagram	53
2.4.5	Entity Relationship Diagram (ER Diagram)	54
2.4.6	Context Diagram	55
2.4.7	Data Flow Diagram Level 0	56
2.4.8	User Interface	57
2.4.9	Software and Hardware Requirements	62
2.5	Development Plan	64
CHAPT		
	mplementation Phase	
3.1.1	Database Development	
3.1.2	System Development	
	Sesting Phase	
	Login and Logout System	
	Administrators Functionality	
	Teachers Functionality	
3.2.4	Parent Functionality	95
3.2.5	User Acceptance Testing	96

(a)	Teacher Acceptance Test	96
(b)	Parent Acceptance Test	99
СНАРТ	TER 4 RESULT AND DISCUSSION	101
4.1 Intro	oduction	101
	ult and Discussion	
4.3 Syst	tem Testing Feedback Results	102
4.3.1	Result Analysis of Feedback for Parents	102
4.3.2	Result Analysis of Feedback for Teachers	107
4.4 Adv	vantages and Disadvantages	112
4.4.1	Advantages	112
4.4.2	Disadvantages	112
4.5 Con	astraints	113
CHAPT	TER 5 CONCLUSION	114
5.1	Conclusion	114
5.2 F	Future Enhancement	115
REFER	RENCES	116
APPEN	NDICES	117
Sign	Off and Acknowledgement	118
Paren	nt Feedback Form	119
Teacl	her Feedback Form	120
Parer	nts Feedback Form Results	121
Teacl	hers Feedback Form Results	121
Gant	t Chart	122

LIST OF TABLES

TABLE NUMBER	PAGE
Table 1. 1: Comparison within Existing System	11
Table 2. 1: Comparison between three types of methodolog	y38
Table 2. 2: Hardware Requirements	
Table 2. 3: Software Requirements	
Table 3. 1: Test Case Result for Login and Logout Function	189
Table 3. 1: Continued	90
Table 3. 2: Test Case Result for Administrators Function	Error! Bookmark not
defined.	
Table 3. 2: Continued	91
Table 3. 2: Continued	
Table 3. 3: Test Case Result for Teachers Function Er	ror! Bookmark not defined
Table 3. 3: Continued	93
Table 3. 3: Continued	
Table 3. 4: Test Case Result for Parent Function Er	

LIST OF FIGURES

FIGURE NUMBER PAG	Æ
Figure 1. 1: Login page iSchool Management System	. 6
Figure 1. 2: State Requirements for Student Information Systems	
Figure 1. 3: Student Information System Admin for SchoolWorks SIS	
Figure 1. 4: Simple interface of TMS School Management System or SPS of SMK	
Taman Tun Dr. Ismail	10
Figure 2. 1: Survey form for parents	14
Figure 2. 2: Survey form for teachers	
Figure 2. 3: Survey result about responder by gender	
Figure 2. 4: Survey result about responder by race	
Figure 2. 5: Survey result about responder by nationality	
Figure 2. 6: Survey result about responder by age	
Figure 2. 7: Survey result about responder by children school	
Figure 2. 8: Survey result about having internet connection	
Figure 2. 9: Survey result about where to access internet	
Figure 2. 10: Survey result about type of communication prefer	
Figure 2. 11: Survey result about school has website/online student management syste	
Figure 2. 12: Survey result about parents know every test /exams results of your child	
Figure 2. 13: Survey result about how often get the test/exam report book	
Figure 2. 14: Survey result about getting children test/exam marks through SMS is a	
good way	22
Figure 2. 15: Survey result about school should have a website / online student	
management system	23
Figure 2. 16: Survey result about parents should have the right of access to student	
management system	23
Figure 2. 17: Survey result about logging in to the website / online student management	nt
system to view their child's performance is required	24
Figure 2. 18: Survey result about web sites / online student management system should	
have a space that allowing communicate with the teacher	
Figure 2. 19: Survey result about school has Student Management System	25
Figure 2. 20: Survey result about current system is helpful	
Figure 2. 21: Survey result about functions that included in the system	
Figure 2. 22: Survey result about that every school needs Student Management Systen	
Figure 2. 23: Survey result about that it is important to send students test/exam result	to
their parents using SMS	
Figure 2. 24: Survey result about parents should have access to the system	29
Figure 2. 25: Survey result about system should have a space that allows teachers to	
	29
Figure 2. 26: Survey result about how important having students management module	30
Figure 2. 27: Survey result about how important having teachers management module	
Figure 2. 28: Survey result about how important having co-curriculum management	
module	31

Figure 2. 29: Survey result about how important having library mana	igement module . 31
Figure 2. 30: Survey result about how important having attendance n	nanagement module
	32
Figure 2. 31: Survey result about how important having time table m	_
Figure 2 22: Surgery regult about how important having for	
Figure 2. 32: Survey result about how important having fee managen	nent module 33
Figure 2. 33: Survey result about how important having registration a module	
Figure 2. 34: Survey result about teacher agree need the system that	34
graphgraph	
Figure 2. 35: Survey result about that contain graphical information of	
about the performance of students	
Figure 2. 36: Waterfall Model	36
Figure 2. 37: Spiral Model	30
Figure 2. 38: V-Model	
Figure 2. 39: Spiral Model	
Figure 2. 40: Use Case Diagram	
Figure 2. 41: Dialogue Diagram for Teacher	
Figure 2. 42: Dialogue Diagram for Parent	
Figure 2. 43: Dialogue Diagram for Administrator	43
Figure 2. 44: Activity Diagram for Login Function	44
Figure 2. 45: Activity Diagram for Teacher Management Module	45
Figure 2. 46: Activity Diagram for Student Management Module	46
Figure 2. 47: Activity Diagram for Class Teacher Assign Manageme	
Figure 2. 48: Activity Diagram for Student Class Assign Managemen	
Figure 2. 49: Activity Diagram for Exam Result Module	
Figure 2. 50: Activity Diagram for View & Reply Comment Page	
Figure 2. 51: Activity Diagram for Parents to the System	
Figure 2. 52: System Flow Diagrams for Login System	53
Figure 2. 53: System Flow Diagrams for User Registration Function	53
Figure 2. 54: Entity Relationship Diagram for School Management S	
Figure 2. 55: Context diagram of School Management System	55
Figure 2. 56: Data Flow Diagram Level 0 of Student Management Sy	
Figure 2. 57: The Prototype of Homepage	
Figure 2. 58: The Prototype of Login Page	58
Figure 2. 59: The Prototype of Teacher Home Page	
Figure 2. 60: The Prototype of Add New Students Information and D	
Figure 2. 61: The Prototype of View Students Information and Data	
Figure 2. 62: The Prototype of View Students Exam/Test Result Pag	
Figure 2. 63: The Prototype of Send Exam / Test Result Page	
Figure 2. 64: The Prototype of Add New Comment Page	
Figure 2. 65: The Prototype of View Comment Page	
Figure 2. 66: Gantt chart for Identication Stage – Stage 1	
Figure 2. 67: Gantt chart for Design Stage – Stage 2 Figure 2. 68: Gantt chart for Construct or Build Stage – Stage 3	04
Figure 2. 69: Gantt chart for Evaluation and Risk Analysis Stage – S	
- 15 2. 07. Gailti Giart for Evaluation and Risk Aliarysis Stage - 5	iage 4 03
Figure 3. 1: school databased	66
Figure 3. 2: class table	
	······ 0 /

Figure 3. 3: comment table	. 67
Figure 3. 4: login table	. 67
Figure 3. 5: school_clsss table	. 68
Figure 3. 6: student table	. 68
Figure 3. 7:student_result table	. 69
Figure 3. 8: subject table	
Figure 3. 9: teacher table	
Figure 3. 10: teaching_class table	
Figure 3. 11: The home page of Student Management System	. 70
Figure 3. 12: The login page of Student Management System	
Figure 3. 13: login.php	
Figure 3. 14: sessionHandler.php (PartA)	
Figure 3. 15: sessionHandler.php (PartB)	
Figure 3. 16: Insert student information page	
Figure 3. 17: student input.php	
Figure 3. 18: View student information page	
Figure 3. 19: student_display.php (PartA)	
Figure 3. 20: student display.php (PartB)	
Figure 3. 21: Update student information page	
Figure 3. 22: student update.php	
Figure 3. 23: student_delete.php	
Figure 3. 24: Student class assign page	
Figure 3. 25: student_class_assign.php (PartA)	
Figure 3. 26: student_class_assign.php (PartB)	79
Figure 3. 27: Students result insert page	79
Figure 3. 28: View students result page	
Figure 3. 29: Edit students result page	
Figure 3. 30: result.php	
Figure 3. 31: result_save.php	
Figure 3. 32: Personal student results page	
Figure 3. 33: Send student result confirmation page	
Figure 3. 34: sms_send.php	
Figure 3. 35: Received children results	
Figure 3. 36: View student results in graphical page	
Figure 3. 37: testchart2.php	
Figure 3. 38: Comment page	
Figure 3. 39: teacher comment.php	
Figure 3. 40: Teacher Acceptant Test User Story 1	
Figure 3. 41: Teacher Acceptant Test User Story 2	
Figure 3. 42: Teacher Acceptant Test User Story 3	
Figure 3. 43: Teacher Acceptant Test User Story 4	
Figure 3. 44: Teacher Acceptant Test User Story 5	
Figure 3. 45: Teacher Acceptant Test User Story 6	
Figure 3. 46: Teacher Acceptant Test User Story 7	
Figure 3. 47: Teacher Acceptant Test User Story 8	
Figure 3. 48: Parent Acceptant Test User Story 1	
Figure 3. 49: Parent Acceptant Test User Story 2	
Figure 3. 50: Parent Acceptant Test User Story 3	
Figure 3. 51: Parent Acceptant Test User Story 4	
AARGIV.A. AL LAIGH BECCHAIN ION LINGUIUV +	

Figure 3. 52: Parent Acceptant Test User Story 5	100
Figure 4. 1: The colour, font, text using in this system is that suitable	102
Figure 4. 2: Survey result about the system user friendly	
Figure 4. 3: Survey result about this system is better and more helpful compare to	
traditional system	103
Figure 4. 4: Survey result about is that every page of this system are functioning	104
Figure 4. 5: Survey result about is it can view children exam results through system	
better	
Figure 4. 6: Survey result about is that helpful you to know your children academic	
performance through viewing exam results in graphical format	
Figure 4. 7: Survey result about can received children exam results through SMS in	
•	105
Figure 4. 8: Survey result about received children exam results through SMS give	
benefit to you	106
Figure 4. 9: Survey result about is that the comment function is good and helpful in	
communicate	
Figure 4. 10: Survey result about the colour, font, text using in this system is that	
suitable	107
Figure 4. 11: Survey result about the system user friendly	107
Figure 4. 12: Survey result about this system is better and more helpful compare to	
traditional system	
Figure 4. 13: Survey result about is that every page of this system are functioning	
Figure 4. 14: Survey result about is that manage students information is better than	
traditional method	
Figure 4. 15: Survey result about is that easy to analyse student academic performa	nce
in graphical format compare with current method using data format	109
Figure 4. 16: Survey result about is that student class assign function more easy and	
better compare with current method	110
Figure 4. 17: Survey result about is that class teacher assign function more easy and	d
better compare with current method	
Figure 4. 18: Survey result about is that sending students results function working	
properly	
Figure 4. 19: Survey result about is that the comment function is good and helpful:	
communicate	111

CHAPTER 1

INTRODUCTION

1.1 Introduction

In this 21'st century, all is about technology. The schools and education nowadays also already changed. Not only for University and secondary school, primary school also must have their own management system. But the current management system primary school is already defined as old generation management system and it already cannot satisfy the user needed.

As a result, a system called Student Management System will be developing as an upgrade version of the old system or to replace manual system to solve problem that facing when was using the old system or manual system. Student Management System (SMS) is a software application for education that use to managed students information and data. Also known as student information system (SIS), student information management system (SIMS), or school management system (SMS).

This design of this system is web-based type, so the user also can directly use the system by connect to internet .The users of this system are given to three groups, which are administrators, teachers and parents. The functions of administrators and teachers are read, write and edit, while the parents their functions are only read and write. Through this system, administrators and teachers can manage all student data and information easily and the parents also can easily know their children performance easily.

Besides that, this system added new technologies, which are using the Web Service to send the SMS (*Short Message Service*). Through this Web Service, teachers can send the exam result to children parents, so the parents can know the exam or test result of their children. Another technologies is the system will auto generates warning letter also by checking the attendance of students.

This new system will replace the current system that is used in primary school and surely this system will improve the student management system of the school and efficiency of the job.

1.2 Problem Statement

Using manual system to manage the students which are records all information and in the book or paper was causing the job of the teachers becomes more and troublesome. The record in the have a possibility missing or destroy when happen any accident. While now already have the school use the computer to manage the student information, but both of the systems they use are already out-dated. The system they use all are standalone and separately, one system only have one function. This was cause teacher harder to use all the system on the same time. The separately system without connection with each other also cause the same data and information the needed key in in every system. Besides that, the system that using also does not have the communicate platform for the parents to communicate with the parents. This will cause the interaction between teachers and parents become less.

Failed in test or scores dropped are causing the student were scared to telling their parents. Added some of the parents are busy with their own carrier, both of them may indifferent their child's results. Besides that, also have some student prevent their parents to know their test result, they may cheated their parents with multiple reason like teacher haven't given back the report card or others to avoid their parents know the result. This was causing the parents does not know their children exam or test results.

Every students learning ability are different, some of them are good, some of them weak. So the results that gets also different. As a teacher, they need to know every exam results of each student to know which subject is the weakness of students. But all the students results are record in the paper, teachers is harder to know the performance of the students if not through data or graphical image. This is because through the graph, teacher can know is that any improvement of students in term of the status, progress or performance.

1.3 Objectives

- a) To design and develop a Student Management System for primary school.
- b) To include the function of students performance with graphical information and feedback platform for parents and teachers.
- c) To sends students results to their parents through SMS.

1.4 Scopes

The main focus of this project is primary school and the target/user is the administrators, teacher and parents. The scope of the students years only focus on standard 1.

Student Management System is a prototype system and the content is using dummy data.

Device that used in this project are a set of computer and mobile phone. Computer is a local server that runs the system and database. Mobile Phone is a device that used to receive the notification or message from teachers.

Tools that used to build the interfaces and the database are PHP, HTML, JavaScript and PHP MyAdmin Database.

1.5 Studies Existing System

This chapter is briefly explains about the descriptions, functions of existing student management system and do some comparison. The other aspects that will be discussed include the specification of hardware and software that will be used to develop the system.

Three existing system will be as a research at this report, which are "iSchool Management System", "SchoolWorks Student Information System (SchoolWorks SIS)" and "TMS School Management System".

1.5.1 iSchool Management System

iSchool Management System is the system that using by SMJK Dindings, a school located in the Malaysian small town of Lumut, Perak. iSchool Management System is the flagship product[1] of iSchool Suite education products. It is school administration software and starts implemented since year 2001.

(a) System Description

iSchool Management System was an integrated school management software system. These systems are using by the school to simplifying management tasks and manage student information. Which are gives school administrators and teachers the ability to easily and cost-effectively manage every aspect of data gathering and reporting[1].

iSchool Management Systems delivers real-time information[1]. Any information or data that are added or changed will be update and available to all users. This allows the administrators, teachers, parents and students to access the latest information and also the data.

This system also provides comprehensive functionality in a single application. It includes a full-featured, in order to meet all requirements which are individual login for teachers, students, parents and administrators. This system having more 20 different module[1] in the whole system, most school basically will purchase the Basic Module[1], Exam & e-Report Card, Library, Co-curriculum and student discipline[1] from starting. After that just added or purchase others module if needed.

Besides that, to use this system, the school also needs to purchase the hardware Server. The sizes of server is depends number of students population, number of modules and number of user access the module.

(b) Problem in Existing System

iSchool Management System is a good system, but it is harder to use. Compare with other system, the progress to doing something is complicated. The user needs to take long time to learn and explore. This system also have another problem, which are the module system not in one package when purchase, the user need to choose what type of module needed or required. For user who are not familiar or comprehend with this, they may face the problem when choosing the module. Besides that, home pages of the system also not user friendly. The user need to login first just can view the information, for the outsider user means who won't have the account but Interest and want know more about the system, they may cannot view the information about the system.

(c) Interfaces of SMS



For the best viewing experience and use of all functionality, we recommend using Internet Explorer 5 and above.

Figure 1. 1: Login page iSchool Management System

Figure 1.1 shows the login page of iSchool Management System, the user need to login first just can view the data/information.

1.5.2 SchoolWorks Student Information System (SchoolWorks SIS)

SchoolWorks Student Information System (SchoolWorks SIS) is the system that used by American International School in Genoa (AISG). This developed by SchoolWorks from K-12 software market in year 2005.

(a) System Description

SchoolWorks SIS is school administration software. This system was using the latest programming and database standards design by using the browser-based to manage student information. That means it (system) was allowed the Independent student data entry, stands as the key for the school that need to manage students information efficiently. The aim of this system is want to reduce the bottlenecks in the office.

This system can completely tracking and managed student information and data. The complete student information was include student activities, daily attendance, period or classroom attendance, discipline, health and immunizations, grades, schedules, and more[2]. Through this system, the administrators are ability to efficiently manage the student information and data. The SchoolWorks SIS also have the standard report and allowed the custom reports to creation.

Besides administrators, parents also allowed to access to the system to access their children academic records.

(b) Problems in Existing System

SchoolWorks Student Information System (SchoolWorks SIS) is a web application that driven by a single database. The system is easily to install and requirements for installation also standard. The main problem of this system is this system is a complex vertical application, the user need to take a several day to training for that system. It have a several level of irreducible complexity, compare with other system. This may waste a lot of time and cost for all administrators to complete all training.

(c) Interfaces of SchoolWorks SIS

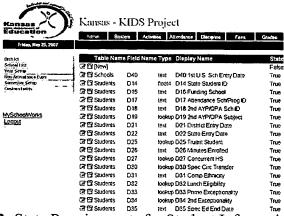


Figure 1. 2: State Requirements for Student Information Systems

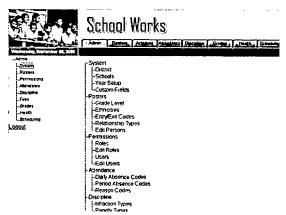


Figure 1. 3: Student Information System Admin for SchoolWorks SIS

1.5.3 TMS School Management System

TMS School Management System is the system that developed by The Media Shoppe Berhad ("TMS" or "the Company"). This TMS School Management System was have used by many school at Malaysia which call "Sistem Pengurusan Sekolah (SPS)". So, SMK Taman Tun Dr. Ismail is one of the school use this system. SMK Taman Tun Dr. Ismail is located at Jalan Leong Yew Koh, Taman Tun Dr. Ismail, 60000 KualaLumpur, Wp Kuala Lumpur.

(a) System Description

TMS School Management System is a web-based system[3] for administrators, teachers, parents and students[3]. The function of this system is helps to simplify daily operational tasks involved in registration management, exam management and so on. The combination of the powerful framework and carefully designed interfaces are let it easy to use and allows for an efficient management[3] and exchange of extensive data across an interactive platform[3].

The aim of TMS School Management System is to help schools improve the quality student management[3], increase student performance and better communicate with parents[3]. Besides that, this system also able to support multiple users and schools[3], enabling them to record, access reports[3], as well as managed their student and employee data, and performance records in real time[3].

TMS School Management System re given to two level, which are school level and minister level. Because this system is intended for schools in Malaysia, so we are only focus on school level[3], SMK Taman Tun Dr. Ismail is the school that using the school level TMS School Management System. The module are comprises Registration Management, Class Management, ECA Club Management[3], Marks Management, Financial & Human Resource Management[3], Access Control & Security Management, Disciplinary Management, Administration Management, Facility & Asset Management, Learning Management, Collaboration & Knowledge Management and Hostel Management Module.

(b) Problems in Existing System

TMS School Management System is one of the good system has been found. The system are accessible through any type device browser, it also supports a lots of function which cover all information and management needed by school. The main problem of this system is this system is more to commercial sector, it did not truly focus on what needed by school. Besides that, it also focuses more on management for a secondary school compare with primary school. The most function that provide by this system is not so suitable to primary school.

(d) Interfaces of SMS



Figure 1. 4: Simple interface of TMS School Management System or SPS of SMK Taman Tun Dr. Ismail

1.5.4 Comparison within Existing System

 Table 1. 1: Comparison within Existing System

Description	Student	iSchool	SchoolWorks	TMS School
	Management	Management	Student	Management
	System	System	Information	System –
			System	School Level
			(SchoolWorks	
			SIS)	
User group	Parents, Teachers	Administrators	Administrators,	Administrators
	and	and Teachers	and Parents	and Teachers
	Administrators			
Interaction	Yes	No	Yes	No
platform			·	
between				
teachers and				
parents				·
Registration	Yes	No	No	Yes
System				
Automatic	Yes	No	No	No
generate				
graph				
Result send	Yes	No	No	No
through SMS				
System Type	Web based	Web based	Web based	Web based

CHAPTER 2

REPORT BODY

2.1 Introduction

Report body is a reflecting of the structure outlined in the introduction. So in this chapter will explain the main four things in body report which are the user requirement, design description, development plan and testing plan. User requirement is specification of the requirements that user expects from software or system. Design description is the methodology that used and applied in this whole project. Next is development plan which are the Gantt chart that illustrates a project schedule from start to finish dates. Last is testing plan which are the part about how to testing and the testing result.

2.2 User Requirement

To understand and know more about the requirements and the function that needed by the user, a survey was be done to collect the opinion about the system. This survey was done to two group users which are parents and teachers.

2.2.1 Parent Survey Form

Parent survey form is the survey that done to 50 parents that came from three different states which are Tumpat Town at Kelantan, Kota Bharu which is capital of Kelantan and Gambang Town at Kuantan Pahang. Figure 2.1 is the survey form for parent which was using in this project.

	Parents Survey Form
# Ple	ease answer question below using (🏏). Thank you.
1.	Gender (Jantina) Male (Lelaki) Female (Perempuan)
2.	Race (Bangsa)
	Malay (Melayu) Chinese (Cina) Indian (India) Other (Lain-lain):
3.	Nationality (Kewarganegaraan)
	Malaysian Others (Lain-lain):
4.	Age (Umur) Below 25 (25 ke bawah)
5.	Children school (Sekolah anak) Primary school (Sekolah Rendah) Secondary school (Sekolah Menengah)
6.	Do you have internet connection? Adakah anda mempunyai sambungan internet? Yes (Ya) No (Tidak)
7.	Where did you access internet? Di manakah anda akses internet? Home (Rumah) Office (Pejabat) CyberCafe Mobile
8.	What communication method do you prefer? Apakah kaedah komunikasi yang anda pilih? Phone call(panggilan telefon) SMS Meeting (Perjumpaan)