

Universiti Teknologi MARA

Online Computer Lab Booking System

Rabiatul Adawiah Binti Hasyim

**Bachelor of Science (Hons) Business Computing
Faculty of Computer and Mathematical Sciences**

July 2012

DECLARATION

I certify that this thesis and the research to which it refers are the product of my own work and that any ideas or quotation from the work of other people, published or otherwise are fully acknowledgement in accordance with the standard referring practices of the discipline.

JULY, 2012


RABIATUL ADAWIAH BINTI HASYIM
2009625834

APPROVAL

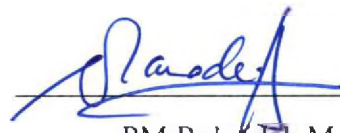
ONLINE COMPUTER LAB BOOKING SYSTEM

BY

RABIATUL ADAWIAH BINTI HASYIM

This thesis was prepared for the requirement of Information Technology Project course has been approved by thesis supervisor, PM Ruhaidah Mohd Amin. It was submitted to the Faculty of Science Computer and Mathematics and was accepted in partial fulfillment of the requirement for B.Sc (Hons) Business Computing.

Approved by:



PM Ruhaidah Mohd Amin

Project Supervisor

Dr Hamidah Jantan

Project Coordinator

Date: July 2012

ABSTRACT

Booking computer lab is still using manual system in SK Abu Bakar, Mentakab, Pahang. It involves several processes in which teachers have to register and book manually in the log book. Manual system is considered to be costly and time consuming as it requires a lot of documentation and large space of filing cabinets to store data. Online Computer Lab Booking System is developed in order to overcome the problems encountered within the manual system. The methodology used in the development of the system is System Development Life Cycle (SDLC). SDLC is the sequential phases or stages an information system (IS) follows throughout its useful life. The SDLC establishes a logical order or sequence in which the system development activities occur and indicates whether to proceed from one system development activity to the next through the phases of planning, analysis, design, implementation, and maintenance. The system is developed as a medium to help users efficiently reserve the computer lab. Apart from that, the system is developed to enhance the booking process through an online and users are allowed to access into the system anywhere at any time. For further study, the system can be applied to other schools around Pahang that have computer lab facilities.

TABLE OF CONTENTS

DECLARATION	i
APPROVAL	ii
ACKNOWLEDGEMENT	iii
ABSTRACT	iv
CONTENT	v
LIST OF FIGURES	vii
LIST OF TABLES	ix

CHAPTER ONE: INTRODUCTION

1.1	Introduction.....	1
1.2	Project Overview	2
1.3	Problem Statement	3
1.4	Project Objectives	3
1.5	Project Scope	3
1.6	Project Significance.....	4
1.7	Research Methodology	5
1.8	Summary	6

CHAPTER TWO: LITERATURE REVIEW

2.1	Introduction.....	7
2.2	Evolving from Manual Reservation Systems to Online Booking Systems	8
2.3	SK Abu Bakar Site Information	10
2.4	Web-Based Application System	12
	2.4.1 Roles of Web-Based Application System	13
	2.4.2 Core Benefits of Web-Based Application System	13
2.5	Comparison between Web-Based and Paper and Pencil Approach	15
2.6	Database Driven Website	16
2.7	Summary	17

CHAPTER THREE: RESEARCH METHODOLOGY

3.1	Introduction.....	18
3.2	The Systems Development Life Cycle (SDLC).....	19
3.3	Phases in SDLC	20
	3.3.1 Phase 1: Planning	21
	3.3.2 Phase 2: Analysis	21
	3.3.3 Phase 3: Design	21
	3.3.4 Phase 4: Implementation	22
	3.3.5 Phase 5: Maintenance	22
3.4	Methodology Framework.....	22
3.5	Planning Phase.....	25
3.6	Analysis Phase.....	27
3.7	Design Phase.....	30
3.8	Implementation Phase	34
3.9	Maintenance Phase	37
3.10	Summary.....	38