

LIBRARY MANAGEMENT SYSTEM



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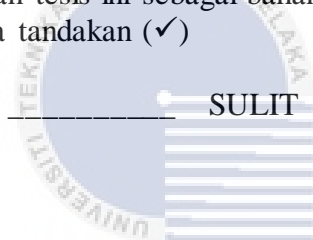
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SESI PENGAJIAN: [2020/2021]

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LIBRARY MANAGEMENT SYSTEM

NURUL AQILAH SHAHIRAH BINTI AMIRUDIN



This report is submitted in partial fulfillment of the requirements for the Bachelor of [Computer Science (Software Development)] with Honours.

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

2021

DECLARATION

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DEDICATION

I dedicated this project for my family, and my friends that always support and actively encourage me throughout this project. Thank you for supporting me and praise to Allah, I have finished this project.



ACKNOWLEDGEMENTS

In this project, I have been working. Without the aid and guidance from many people and our supervisor, Dr.Raja Rina Binti Raja Ikram this would not have been possible. Our heartfelt appreciation to all of them is extended. We are very obliged to Dr.Raja Rina Binti Raja Ikram for her encouragement, continuous supervision and knowledge about the project and support for it in the completion of the project. We thank our parents for their support and motivation that will enable us to complete this project. We also thank our colleagues for their contributions and the individuals who have helped us voluntarily with their expertise.



ABSTRACT

Library Management System is a system to help admin of library to manage the library by ease their task by develop a few modules that can change their task from manual to web-based system. This system also adds one module for user to reserve books from user part. This report will include the analysis and the design of the system such as user interface design and database design. The current system is record all of the data manually and the redundancy data, data is not organized are becoming issues. Thus, the Library Management System is being proposed to reduce the redundancy of data and data will be organized. Through the process research that have been made, the library system is develop to ease the admin manage the library whenever admin need to keyed in, view, edit and remove data.



ABSTRAK

Sistem Pengurusan Perpustakaan(SPP) adalah sebuah sistem untuk membantu pentadbir perpustakaan menguruskan perpustakaan melalui membina beberapa modul yang mengubah sistem manual kepada sistem berasaskan web. Sistem ini juga menambah satu modul untuk pengguna iaitu pengguna boleh menempah buku secara awal sebelum pergi ke perpustakaan. Laporan ini adalah untuk melaporkan tentang analisis dan reka bentuk system seperti 'user interface design' dan 'database design'. Sistem yang sekarang adalah menggunakan buku. Iaitu merekodkan data secara manual menyebabkan data adalah tidak tersusun dan berlakunya pertindihan data. Sehubungan dengan itu, melalui cadangan membina Sistem Pengurusan Perpustakaan ini adalah untuk mengurangkan pertindihan data dan untuk menjadikan data lebih tersusun. Melalui proses pencarian yang telah kami lakukan, Sistem Pengurusan Perpustakaan adalah dibina untuk menyenangkan pentadbir untuk menguruskan perpustakaan.



TABLE OF CONTENTS

	PAGE
DECLARATION.....	II
DEDICATION.....	III
ACKNOWLEDGEMENTS.....	IV
ABSTRACT.....	V
ABSTRAK.....	VI
TABLE OF CONTENTS.....	VII
LIST OF TABLES.....	XII
LIST OF FIGURES.....	XIV
LIST OF ABBREVIATIONS.....	XVI
LIST OF ATTACHMENTS.....	XVII
CHAPTER 1: INTRODUCTION.....	1
1.1 INTRODUCTION.....	1
1.2 PROBLEM STATEMENT	1
1.3 Objective	1
1.4 Scope.....	2
1.4.1 Scope of Project.....	2
1.4.2 Scope of User	2
1.4.3 Scope of Functionality	3
1.5 Project Significance.....	4

1.6	Expected Output.....	4
1.7	Conclusion.....	4
CHAPTER 2: LITERATURE REVIEW AND PROJECT METHODOLOGY..5		
2.1	Introduction	5
2.2	Facts and Findings.....	5
2.2.1	Domain.....	5
2.2.2	Existing System	6
2.2.3	Technique.....	10
2.3	Project Methodology	11
2.4	Project Requirements	11
2.4.1	Software Requirements	11
2.4.2	Hardware Requirements	12
2.5	Project Schedule and Milestone	12
2.6	Conclusion.....	13
CHAPTER 3: ANALYSIS.....14		
3.1	Introduction	14
3.2	Problem Analysis	15
3.2.1	Current business flow of staff.....	15
3.2.2	Problem Statement.....	17
3.3	Requirement Analysis	17
3.3.1	Data Requirement	17
3.3.2	Functional Requirement	21
3.3.2.1	Use Case View.....	21
3.3.2.2	Functional Requirement Table	22

3.3.3	Non-Functional Requirement.....	23
3.4	Conclusion.....	23
CHAPTER 4: DESIGN		25
4.1	Introduction	25
4.2	High-Level Design	25
4.2.1	System Architecture	25
4.2.2	User Interface Design.....	26
4.2.2.1	User Interface Design(Admin).....	26
4.2.2.2	User Interface Design(User)	32
4.2.3	Database Design	35
4.2.3.1	Conceptual and Logical Database Design.....	36
4.3	Detailed Design.....	38
4.3.1	Software Design.....	38
4.3.1.1	Use Case Specification.....	38
4.3.1.2	Sequence Diagram – Authenticate User	42
4.3.1.3	Sequence Diagram – Manage Book	43
4.3.1.4	Sequence Diagram – Manage User	45
4.3.1.5	Sequence Diagram – Manage Booking.....	47
4.3.1.6	Sequence Diagram – Reserve Book	49
4.3.1.7	Sequence Diagram – Generate Report.....	50
4.3.2	Physical Database Design.....	50
4.4	Conclusion	55
CHAPTER 5: IMPLEMENTATION.....		56

5.1	Introduction	56
5.2	Software Development Environment setup	56
5.3	Software Configuration Management	57
	5.3.1 Configuration Environment Setup	57
	5.3.2 Version Control Procedure	58
5.4	Implementation Status	59
5.5	Conclusion	61
CHAPTER 6: TESTING		62
6.1	Introduction	62
6.2	Test Plan.....	62
	6.2.1 Test Organization.....	62
	6.2.2 Test Environment.....	63
	6.2.3 Test Schedule	63
6.3	Test Strategy.....	64
	6.3.1 Classes of Test.....	64
6.4	Test Design.....	65
	6.4.1 Test Data.....	65
	6.4.1.1 System Testing	66
6.5	Test Result and Analysis	76
	6.5.1 Beta Testing.....	80
6.6	Conclusion	83
CHAPTER 7: CONCLUSION		84
7.1	Observation on Weakness and Strength.....	84
7.2	Propositions for Improvement.....	85

7.3	Project Contribution	85
7.4	Conclusion	86
REFERENCES.....		87



LIST OF TABLES

	PAGE
Table 2. 1: Technique Comparison.....	10
Table 2. 2: List of Software	11
Table 2. 3: List of Hardware.....	12
Table 3. 1:Data Dictionary of Admin Table	17
Table 3. 2:Data Dictionary of Book Table	18
Table 3. 3:Data dictionary of Booking Table.....	19
Table 3. 4: Data Dictionary of booking_user Table.....	19
Table 3. 5: Data Dictionary of borrow_return Table	20
Table 3. 6: Data Dictionary of user Table.....	20
Table 3. 7: Functional requirement of system.....	22
Table 3. 8: Non-Functional Requirements of system.....	23
Table 4. 1: Use case of Authenticate User.....	38
Table 4. 2:Use Case of Manage Book	39
Table 4. 3:Use Case of Manage User	39
Table 4. 4:Use Case of Manage Booking	40
Table 4. 5: Use Case of Reserve Book.....	41
Table 4. 6: Use Case of Generate Report.....	42
Table 4. 7: Admin Table	50
Table 4. 8:Book Table.....	52
Table 4. 9: Booking Table.....	52
Table 4. 10: booking_user Table.....	53
Table 4. 11: borrow_return Table	53
Table 4. 12: User Table.....	54
Table 5. 1: Implementation Status	59
Table 6. 1 : Test Organization	63
Table 6. 2 : Test Environment	63

Table 6.3 : Test Schedule	64
Table 6.4 : Test Cases for Username	66
Table 6.5 : Test Cases for Password	66
Table 6.6 : Test Cases for Email	67
Table 6.7 : Test Cases for Phone Number	68
Table 6.8 : Test Cases for ISBN Number.....	69
Table 6.9 : Test Cases for Login.....	69
Table 6.10 : Test Cases for Register New User.....	70
Table 6.11 : Test Cases for Add New Book.....	70
Table 6.12 :Test Cases for View Books	72
Table 6.13 : Test Cases for Add Borrower	72
Table 6.14 : Test Cases for Pending Request.....	73
Table 6.15 : Test Cases for Borrow Book Details	73
Table 6.16 : Test Cases for View User	74
Table 6.17 : Test Cases for Reserve Books	74
Table 6.18 : Test Cases for Update Profile	74
Table 6.19 : Test Result and Analysis.....	76

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LIST OF FIGURES

	PAGE
Figure 2. 1: Case Study Website of Perpustakaan Awam Johor.....	6
Figure 2. 2: Information of Borrowing Books	6
Figure 2. 3 : Login Page of E-Perpustakaan Terengganu	7
Figure 2. 4: Search Page	7
Figure 2. 5: Display Page of Book Details.....	8
Figure 2. 6: Case Study Perpustakaan Awam Pahang	8
Figure 2. 7 Scrum Methodology	11
Figure 2. 8: Gantt Chart	12
Figure 3. 1: Current system for Add User.....	15
Figure 3. 2: Current system for Add Books.....	16
Figure 3. 3: Current System for Manage Borrower	16
Figure 3. 4: Use Case View.....	21
Figure 4. 1: System Architecture of Library Management System.....	25
Figure 4. 2: Register Page.....	26
Figure 4. 3: Login Page.....	27
Figure 4. 4: Add Book Page.....	27
Figure 4. 5: Add User Page	28
Figure 4. 6: Add Borrower Page.....	28
Figure 4. 7: Dashboard Page	29
Figure 4. 8: List of Borrowed Books Page	29
Figure 4. 9: List of Pending Request Page	30
Figure 4. 10: List of Book	30
Figure 4. 11: List of User.....	31
Figure 4. 12: Update Profile Page.....	31
Figure 4. 13 : Borrowed History	32
Figure 4. 14: List of Books Page	32
Figure 4. 15: Book Details Page.....	33

Figure 4. 16: View Profile Page	33
Figure 4. 17: Update Profile Page.....	34
Figure 4. 18: Reserve Books Page.....	34
Figure 4. 19: Conceptual Database Design.....	36
Figure 4. 20: Logical Database Design.....	37
Figure 4. 21 : Primary Flow for Authenticate User.....	42
Figure 4. 22 : Alternative Flow for Authenticate User	43
Figure 4. 23 : Exception Flow for Authenticate User	43
Figure 4. 24 : Primary Flow for Manage Book.....	44
Figure 4. 25 : Alternative Flow for Manage Book	44
Figure 4. 26 : Alternative Flow(A2) for Manage Book	45
Figure 4. 27 : Exception Flow for Manage Book	45
Figure 4. 28 : Primary Flow for Manage User.....	46
Figure 4. 29 : Alternative Flow for Manage User.....	46
Figure 4. 30 : Alternative Flow (A2) for Manage User.....	47
Figure 4. 31 : Exception Flow for Manage User.....	47
Figure 4. 32 : Primary Flow for Manage Booking.....	48
Figure 4. 33 : Alternative Flow for Manage Booking	48
Figure 4. 34 : Alternative Flow (A2) for Manage Booking	49
Figure 4. 35 : Primary Flow for Reserve Book.....	49
Figure 4. 36 : Primary Flow for Generate Report.....	50
Figure 5. 1: Deployment Diagram	57
Figure 5. 2: XAMPP and Atom	58
Figure 5. 3: Localhost Index Dashboard	58

LIST OF ABBREVIATIONS

FYP	-	Final Year Project
LMS	-	Library Management System



LIST OF ATTACHMENTS

		PAGE
Appendix A	Sample of data	19
Appendix B	Analysis of data collection	78



CHAPTER 1: INTRODUCTION

1.1 INTRODUCTION

Library Management system is developed because the current system is having difficulties to organize the book data and the user details. Day by day the user is increasing so it is become more complicated to organize the data resulting the duplication of data and searching data also is become harder. Therefore, the purpose of introduce the Library Management System is to organized the data properly and to avoid the duplication of data. This is to make it easier for the admin to search and view the details all the data such as books and user.

1.2 PROBLEM STATEMENT

- i. The data in current system is not organized.
- ii. Difficulties in detecting the borrowed book and the book that already return to the library.
- iii. Takes time to detect user that borrow book due to date duplication.

1.3 Objective

The following are the objectives of this system:

- i. To make sure all of the data such as books details, borrowed date and user details are organized properly.

- ii. To ease the admin to insert the data of borrowed and return book without having redundancy of data
- iii. To allow user to book their book in advance

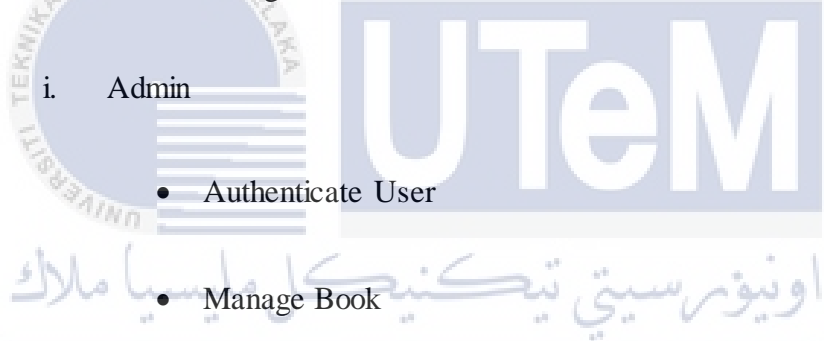
1.4 Scope

1.4.1 Scope of Project

The scope of the project is identifying module and build module to develop the system. In this section scope of user and scope of functionality were discussed as stated below.

1.4.2 Scope of User

There are two of target user for LMS:

- 
- The logo for Universiti Teknikal Malaysia Melaka (UTeM) is displayed in the background. It features a circular emblem with a sun and the university's name in Malay and English. To the right, the acronym 'UTeM' is written in large, bold, blue letters. Below the emblem, the Malay name 'اونيورسي تيكنيكل ماليسيا ملاك' is written in Arabic script.
- i. Admin
 - Authenticate User
 - Manage Book
 - Manage User
 - Manage Booking
 - Manage Borrow Books
 - Generate report
 - Logout
 - ii. Consumer
 - Login

- Booking book
- Manage profile
- Logout

1.4.3 Scope of Functionality

Module to be developed:

i. Authenticate Module

- To allow admin and consumer to login into the system

ii. Manage Book Module

- Admin will insert, view, edit, and delete book in the system.

iii. Manage User Module

- Allow admin to insert, view, edit and delete user.

iv. Manage Booking Module

- Allow admin to approve or deny the request of booking book.

v. Manage Borrow Book Module

- Allow admin to insert ISBN and user information as record when borrowing book.

vi. Manage Profile Module

- Allow consumer to edit their profile information.

vii. Booking Book Module

- Allow consumer to booking book and view books.

viii. Generate Report Module

- Allow admin to generate report of the system such as the list of monthly top borrower.

1.5 Project Significance

LMS project is designed to ensure that the library of the employees can correctly organize the data. It also helps personnel insert borrowing and returning books so that data are not redundant. In addition, without going to library, the consumer can reserve his book in advance.

1.6 Expected Output

LMS can support the organization of data by library staff, and LMS also gets the management of the borrowing books without the redundancy of data compared to the manual system. In addition, consumers will have no worry about booking their book in advance.

1.7 Conclusion

In order to solve the problem, LMS will be designed and developed according to the project objective. The results of this project and the project methodology are discussed next.

CHAPTER 2: LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 Introduction

This chapter will discuss regarding the facts and findings that related to the systems. We made a research regarding the of existing system that are similar to this system. The purpose of these research is to identify problems and things that can be avoided when developed the system. It also to helps to reached our goals by completing the system that is none in other system.

2.2 Facts and Findings

2.2.1 Domain

The domain for this project is Library Management System. Library Management System is a system to assist admin or staff of the library to manage the library. In the Library Management System allows admin insert the data of the books, user and the borrowed book details such as the ISBN Number, book title, quantity of books, username, name for the user and date for the borrowed details. Furthermore, the system as platform for the user to view the list book and reserve them in advance. The system is save time, make it admin jobs easier as they can view the all of the data in the system directly compared to the previous system.