

FINAL YEAR PROJECT LOGBOOK PORTAL

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SUPERVISOR'S DECLARATION

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

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STUDENT'S DECLARATION

I hereby declare that the work in this thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at Universiti Malaysia Pahang or any other institutions.

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ABSTRACT

Final Year Project (FYP) Logbook Portal is a Web-based application developed for Universiti Malaysia Pahang (UMP) communities which are students, supervisors, and coordinator that involved in the Final Year Project. This system is designed to replace the manual logbook of Final Year Project. Students claimed that it is difficult using the manual logbook because they did not understand their supervisor handwriting, forgot to bring the logbook during the meeting which is resulted the progress is made not meets the supervisor's expectation.

The main purpose of this project is to develop an online logbook as a replacement of the manual logbook of Final Year Project that can help the student progressing the Final Year Project become more productive. The system convenience for coordinator, supervisor and student who take the FYP. Its help the coordinator and supervisor to monitor the student progress on the Final Year Project. In order to develop the system, the Rapid Application Development (RAD) Methodology is used to manage the development process. This methodology can improve the quality of the project flow. This project incorporates some of the latest technology which using Bootstrap as graphic interface design, Visual Studio to develop the codes and PHPMyAdmin as the database storage.

In conclusion, the Final Year Project (FYP) Logbook Portal connects both supervisor and student in order to make the progress of Final Year Project more efficient.

ABSTRAK

Final Year Project Logbook Portal (FYP) adalah aplikasi berasaskan web yang dibangunkan untuk komuniti Universiti Malaysia Pahang (UMP) yang merupakan pelajar, penyelia, dan penyelaras yang terlibat dalam Projek Tahun Akhir. Sistem ini direka untuk menggantikan buku catatan manual Projek Tahun Akhir. Pelajar mendakwa bahawa sukar menggunakan buku catatan manual kerana mereka tidak memahami tulisan tangan penyelia mereka, lupa membawa buku catatan yang mengakibatkan kemajuan yang

Tujuan utama projek ini adalah untuk membangunkan buku catatan dalam talian sebagai pengganti buku catatan manual yang dapat membantu pelajar menyiapkan Projek Tahun Akhir menjadi lebih produktif. Sistem ini memudahkan penyelaras, penyelia dan pelajar yang mengambil PSM. Ia membantu penyelaras dan penyelia untuk memantau kemajuan pelajar dalam menyiapkan Projek Tahun Akhir. Untuk membangunkan sistem, Kaedah Rapid Application Development (RAD) digunakan untuk menguruskan proses pembangunan. Metodologi ini dapat meningkatkan kualiti aliran projek. Projek ini menggabungkan beberapa teknologi terkini yang menggunakan Bootstrap untuk mereka bentuk grafik, Visual Studio untuk membangunkan kod dan PHPMyAdmin sebagai penyimpanan pangkalan data.

Sebagai kesimpulan, Final Year Project Logbook Portal (FYP) menyambungkan penyelia dan pelajar menyiapkan Projek Tahun Akhir dengan lebih cekap.

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LIST OF ABBREVIATIONS

FYP	Final Year Project
UMP	Universiti Malaysia Pahang
FSKKP	Fakulti Sistem Komputer Kejuruteraan Perisian
PSM	Projek Sarjana Muda
RAD	Rapid Application Development
ISTQB	International Software Testing Qualifications Board
UTeM	Universiti Teknikal Malaysia Melaka
FKE	Faculty of Electrical Engineering
UAT	User Acceptance Test

CHAPTER 1

INTRODUCTION

1.1 Introduction

The Final Year Project (FYP) Logbook Portal is a Web-based application developed for Universiti Malaysia Pahang (UMP) communities which are students, supervisors, and coordinator that involved in the Final Year Project. Before going further, I will explain the meaning of the logbook.

Based on Collins English Dictionary (2010), a logbook is a book that documented by someone about a certain event (something like process or ways) in text form (can be written by hand or typing on a computer). It must be something that already happens because of word 'record'. Also, the record must be write in details about the related event. Second, based on Business Dictionary, a logbook is a document information in text form (can be written by hand or typing on a computer) that hourly recorded by someone. Also, can be on an everyday basis, except perhaps on weekend. It is done according to a systematic or established form of procedure.

According to the system that I will develop and from these two definitions, I can conclude that Final Year Project (FYP) Logbook Portal is a record of final year project progress by a student that marked with the date and time which student need to record every meeting with the supervisor. It also contains the supervisor's comments, status and action taken by the student as an improvement. While the coordinator will monitor student activity by view every report submitted by the student. The logbook updated week by week and the record must be in the texts form. In conclusion, the Final Year Project (FYP) Logbook Portal connects both supervisor and student in order to make Final Year Project progress more efficient.

1.2 Problem Statement

The survey regarding FYP Logbook was conducted among 10 students FSKKP. The purpose of this survey is to know what the problem arises and opinion of FSKKP students about the FYP Logbook.

Most of the students are thinking the manual logbook is lacking where 70% of students which is 7 out of 10 students. While 30% of students think that the manual logbook not lacking. Most of the students think the manual logbook lacking because they are 'Not understand the supervisor handwriting' where 66.7% agreed with this statement. When this happened, it can be disturbed the student's progress for the Final Year Project. We can see that based on the survey, it said 40% of students are agreed that they did the Final Year Project but not meets with expected progress by the supervisor while 60% of students are disagreed with the statement. Other than that, 11.1% of students are agreed 'Book torn' is the one of the lack of using the manual logbook. As we know, the manual logbook is a paper made which is easily got torn. Also, 1 out of 10 students agreed on the 'Forgot to bring the logbook' statement where he or she sometimes forgot to bring the logbook while meeting with the supervisor. This can happen because sometime student meets the supervisor in a hurry after the class and not bring the logbook together. Lastly, 11.1% of students are agreed with 'Not enough space to write' statement. If the handwriting is too big, it can cause the space are not enough.

The students also recommended to improve the logbook which are change the manual logbook to the online logbook, provides more space to write and make digital logbook. The recommendations will take into the consideration.

1.3 Objective

The following are the objectives to be applied in the system that being develop:

- i. To design an online logbook as a replacement of manual logbook.
- ii. To develop the system that help student to record the progress of Final Year Project.
- iii. To help the coordinator and supervisor to monitor the student progress on the Final Year Project.

1.4 Scope

The scopes of the system are:

i. System User

There are three users can use this system which is coordinator, supervisor and student.

ii. Function

The function of this system is to provide an online logbook system for PSM student. It can manage various type of information such as student progress report, user's profile and announcement.

1.5 Significance

The significance of the system are:

- i. The Portal help the UMP student in progressing the final year project.**
- ii. The Portal help the supervisor in monitoring the student's progress of the final year project.**
- iii. The Portal solve the problems that stated in the *Problem Statement*.**

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