

UNIVERSITI TEKNOLOGI MARA

PROTOTYPE OF M-STUDENT APPLICATION

SAFWAN BIN HASHAN

MUHAMMAD AMIRULZAMAN BIN MANGSOR

MOHAMMAD FADZLI BIN MOHD SHAFIE

BACHELOR OF SCIENCE (Hons.)

DATA COMMUNICATION AND NETWORKING

JANUARY 2013

ACKNOWLEDGEMENT

In the name of Allah, the Most Gracious and the Most Merciful, Peace be upon the Holy Prophet, Muhammad S.A.W. Alhamdulillah, praise and thank to Allah because of His Almighty and his utmost blessing, we was able to finish this research within the time duration given. Apart from our efforts, the success of this project depends largely on the encouragement and guidelines of many others. We would like to take this opportunity to express our gratitude to the people who have been instrumental in the successful completion of this thesis.

Firstly, my special thanks go to my supervisor Puan Nor Shahniza Binti Kamal Bashah. We would like to express a million thanks for the valuable guidance and advice. She inspired us greatly to work and to finish this thesis. Our gratitude also goes to our coordinator Dr Zolidah Kasiran who is willingness to motivate us and to give ideas into completion of this thesis.

We are also like to extend our gratitude and thanks to our beloved parents and sibling for their endless encouragement and helpful thoughts. They have given us the opportunity, ideas and support throughout the years and for that, we are blessed.

Lastly, not to forget our classmates and all of our friends, we would like to thank them for their cooperation and knowledge-sharing. Hope all of us will achieve the success in studies, career and life. Amin Ya Rabbal Alamin.

ABSTRACT

As mobile devices become a trend in modern lifestyle, a new approach is required because mobile devices appeared to be smaller compared to the current devices used to surf the Internet which is the computer. However, most of the mobile user nowadays faced problem and difficulties when they surf the Internet. In some situation they feel awkward due to the nature of the mobile device itself. Besides, mobile device depend fully on wireless connection and the data transfer rate is lower than the computer. This project will convert the I-Student portal of UiTM into a mobile application called Prototype of M-Student Application. The Prototype of M-Student Application will have a small interactive interface that suit nicely with the size of the screen on mobile devices. The flow of the Prototype of M-Student Application is much simpler to provide a smooth surfing experience for the user. In this project, the mobile application is developed using Eclipse editor while the web service is developed using PHP and MySQL. It is hope that from the Prototype of M-Student Application developed it will solve the problem arise and therefore provide a better surfing experience for the mobile user in general and the UiTM student using the I-Student portal in specific.

TABLE OF CONTENTS

CONTENTS	PAGE
SUPERVISOR'S APPROVAL	III
DECLARATION	IV
ACKNOWLEDGEMENT	V
ABSTRACT	VI
TABLE OF CONTENTS	VII
LIST OF FIGURES	XI
LIST OF TABLES	XIII
LIST OF ABBREVIATION	XIV
CHAPTER ONE: INTRODUCTION	
1.1 Introduction	1
1.2 Problem Statement	2
1.3 Project Aims and Objectives	3
1.4 Project Scope	4
1.5 Significance of the Project	5
CHAPTER TWO: LITERATURE REVIEW	
2.1 Introduction	7
2.2 Explanation of Technology Used	7
2.2.1 Android Operating System	7
2.2.2 Mobile Application	8
2.2.3 PHP Programming Language	8
2.2.4 Wireless Technology	8
2.2.5 Xampp Apache Server	9

CHAPTER 1

INTRODUCTION

This chapter elaborates the overview and brief explanation of this thesis. It starts with the introduction, followed by problem statement, objective of this project, scope and ends with significance of the project.

1.1 Introduction

Internet is a global system of interconnected that use standard Internet Protocol (TCP/IP) to serve billions of user worldwide [1.]. Internet has been a part of human life since it was introduced to the world in 1982. As time goes on, the Internet has become more and more important with its wide variety of use.

Web portal is a web site that offers services like email, information, databases, entertainment and much more function [2.]. Compared to normal web sites, web portal provides various functions such as login, registration and view information from databases. In UiTM, all students need to use a student portal to register courses, view examination result, download notes, view timetable, and lots more. This portal is known as I-Student portal and handled by Pusat Teknologi Maklumat or also known as InfoTech.