# Universiti Teknology MARA

# **Student Portal on IOS Devices(Client Side)**

Mohamed Mustaffa Murad Jaafar Ali

Thesis submitted in fulfillment of the requirement for Bachelor of Science (Hons) Network And Data Communication Faculty of Computer and Mathematical Science

January 2014

#### ACKNOWLEDGEMENT

Alhamdulillah, praise and thank to Allah because of His Almighty and His utmost blessings, I was able to finish this research within the time duration given. Firstly, my special thanks go to my supervisor, Puan Shapina Bte Abdullah for giving me all the necessary and valuable guidance in conducting this Final Year Project. I am also indebted to my supervisor for his constructive comments and criticism.

Special appreciation also goes to my beloved parent for their supports, patience and understanding to complete this project.

Last but not least, I would like to give my gratitude to my friends that supports and gave ideas for me to complete this project.

#### ABSTRACT

A mobile application a new trend in these modern days. Mobile application are designed to simplify access especially on smaller screen mobile devices. Mobile application are vary from personal to business used. A UiTM student accessing student portal using mobile phone, although the current system works well on normal computer, accessing on mobile devices can be hassle most time for part time student especially when on the move or busy with commitment This project focus on developing student portal for part time student.. Using RAD methodlogy , we focus on developing student portal that part time student have basic access such as i-student, icress, contact and announcement. Here, part time student can perform update profile, course registration and view information such as billing, contact announcement and classes. We found that the application is helpful based on questionaire and demostration conducted with part time student and public. We received good feedback and hopes to see more improvement to the mobile application in term of more functionality and new interface design.

## **TABLE OF CONTENTS**

CONTENTS	PAGE
SUPERVISOR'S APPROVAL	ii
DECLARATION	iii
ACKNOWLEDGEMENT	iv
ABSTRACT	V
TABLE OF CONTENTS	vi
LIST OF FIGURES	viii
LIST OF ABBREVIATIONS	х

## **CHAPTER ONE: INTRODUCTION**

1.1	Introduction	1
1.2	Problem Statement	2
1.3	Project aims and objectives	2
1.4	Project Scope	3
1.5	Project Significant	4

### CHAPTER TWO: LITERATURE REVIEW

2.1	Introduction		5
2.2	Technology		
	2.2.1	IOS Technology	5
	2.2.2	Android OS	6
	2.2.3	Symbian OS	7
	2.2.4	PHP Programming Language	7
	2.2.5	MySQL database	8
	2.2.6	MSSQL Database	8

	2.2.7 Oracle Database	8
	2.2.8 Sqlite	8
	2.2.9 Apache server	9
	2.2.10 Internet Information server	9
	2.2.11 JSON	9
	2.2.12 XML	10
	2.2.13 REST	10
	2.2.14 SOAP	10
	2.2.15 Push Notification	11
	2.2.16 IOS Software Development Kit	11
	2.2.17 Android Software Development Kit	11
2.3	Related Work	12
2.4	Comparison of related works	16
2.5	Summary	16

### **CHAPTER THREE: METHODOLOGY**

3.1	Introduction		
3.2	Project Formulation Methodology	17	
3.3	Analysis & Quick Design	18	
	3.3.1 Database Design	18	
	3.3.2 Use Case Diagram	20	
	3.3.3 Sequence Diagram	22	
	3.3.4 Interface Design	26	
3.4	Developed, Demonstrate & Refine	35	
3.5	Testing	35	
3.6	Implementation		