

UNIVERSITI TEKNOLOGI MARA

**A WEB-BASED SYSTEM GRAB TUTOR
MANAGEMENT SYSTEM WITH SMS
NOTIFICATION**


ZATIL SYAMIMI BINTI MOHD ZAMRI

**Thesis submitted in fulfilment of the requirements for Bachelor of
Information Technology (Hons.) Faculty of Computer and Mathematical
Sciences**

JULY 2020

STUDENT DECLARATION

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



ZATIL SYAMIMI BINTI MOHD ZAMRI
2018424474

JULY 17, 2020

ABSTRACT

The aim of this study is to address the inherent issue in finding suitable tutor match among the students and teachers. The idea is to design and develop a web-based system for Grab Tutor Management System with SMS Notifications. The common problems encountered by any students are the difficulties in finding the suitable tutors based on their preferred choice. The current existing web application are still lack of responsive elements where they just only provide the fill-in form to search for the tutors. This project is focused on designing a web development for finding private tutors for Sigma One Tuition Centre in Kelantan, Malaysia. The system is targeted to secondary school, which is focused on SPM candidates. The target users for the system are tutor and student. To ensure the effectiveness of this system, this system is integrated with the SMS Notifications that can inform the users before the class session. The System Development Life Cycle (SDLC) Waterfall Model was adapted as its development methodology. This web-based system has been developed using PHP and HTML and SQL for database. In order to evaluate the application, it goes through a series of testing which are the functional testing and User Acceptance Testing. The User Acceptance Testing (UAT) was conducted with 30 participants using a Google Form platform that consists of student and teachers from any secondary school background in respected area. The results indicate positive acceptance where 98% users are strongly agreed that this system is easy to use. Therefore, the study has successfully developed a web-based Grab Tutor Management System with SMS Notifications.

TABLE OF CONTENT

	PAGES
SUPERVISOR APPROVAL	i
STUDENT DECLARATION	ii
ABSTRACT	iii
ACKNOWLEDGEMENT	iv
TABLE OF CONTENTS	v
LIST OF FIGURES	vii
LIST OF TABLES	xi
CHAPTER 1 INTRODUCTION	1
1.1 Background of Study	1
1.2 Problem Statement	2
1.3 Objectives	3
1.4 Project Scope	3
1.5 Project Significances	4
1.6 Summary	4
CHAPTER 2 LITERATURE REVIEW	
2.1 Private Tutor System	5
2.2 Notification Technology	6
2.2.1 Short Message Services (SMS) Technology	6
2.3 Technology	10
2.3.1 Web Based Application	10
2.3.2 Advantages of Web Based Application	11
2.4 Integration of Web-Based and Notification Services	12
2.5 User Acceptance Testing (UAT)	12
2.6 Related Work	13
2.6.1 A+ Home Tuition Malaysia Website	13
2.6.2 E-Education Portal for Student and Teachers	14

4.4.1 Login	50
4.4.2 Admin - Create Subject	51
4.4.3 Student - Information Filtering for Searching Tutor	52
4.4.4 Set Appointment	54
4.4.5 Tutor Profile Page	55
4.4.6 Approve or Reject Interface	55
4.4.7 Notify and Reminder using SMS Notification	56
4.5 Summary	57
CHAPTER 5 RESULT AND FINDINGS	58
5.1 Functional Testing	58
5.1.1 Admin	58
5.1.2 Manage Tutor	60
5.1.3 Manage Student	62
5.2 User Acceptance Testing (TAM)	64
5.2.1 Questionnaires	64
5.2.2 Demographic Background	64
5.2.3 Findings	67
5.3 Summary	78
CHAPTER 6 DISCUSSIONS AND RECOMMENDATION	79
6.1 Objective: Revisit	79
6.2 Limitations of Research	80
6.3 Recommendation for Future Research	80
6.4 Summary	81
REFERENCES	82
APPENDICES	86