

**Universiti Teknologi MARA**

**Task Submission Alert System (TSAS)**

**Siti Nabihah Binti Mohd Pera'aid**

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

**July 2017**

## ACKNOWLEDGEMENT

*“In the name of Allah, the compassionate, the Merciful, Praise be to Allah, Lord of Universe, and peace and prayers be upon His Final Prophet and Messenger”*

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 goes to my supervisor, Madam Norizan Mohamad. I am extremely grateful and indebted for her expert, sincere and valuable guidance, motivation and support throughout the work process. I also would like to express my sincere thanks to my project advisor, Dr. Hasiah binti Mohamed, for their guidance, guideline and great resource in order to be in the right direction to complete the research paper and project.

Special appreciation also goes to my beloved parents Mohd Pera'aid Bin Yunus and Tuan Norizan Bt Tuan Mat for their support and prayer. Hands on hands, to all my siblings that also provide greatest support and encourage me to keep strong and patient to complete the project.

Last but not least, I would like to give my gratitude to my dearest friends, Nur Azrina bt Mohd Zafree, Nur Salehah Nabila Bt Ishak and Farah Syazwani Bt Zolkofly for their help and encouragement and lecturers for their support. Whether, they help me directly or indirectly during my study.

I also place on record, my sense of gratitude to one and all who directly or indirectly, have lent their helping hand in this venture. A big thanks to all of you.

## ABSTRACT

Students nowadays have to search the student portal each time to know about any news updates like datelines of the task, tutorial, and assignment, uploading a document to lecturer and get new detail information about the task. The project entitled “Task Submission Alert System” is a system that students can upload their assignment through online. While lecturers can view and check assignment their students through online. Administrator of the system can register lecturer, student, and the course in this system for student and lecturer to access this system. Only the registered students will receive the notifications. They also can upload any type of documents such as task, tutorial, and assignment to their lecturer at anytime and anywhere before, during or after the datelines. This project has been developed using Waterfall Model. The Waterfall Model consists of five phases such as Requirement Definition, System and Software Design, Integration and Unit Testing, Integration and System Testing and Operation Maintenance. However, for user evaluation, it is involved 30 respondent of the potential user. The evaluation towards TSAS is based on the six construct such as ease of use, user interfaces, web-based system, alert system, usefulness, and satisfaction. The result shows that user has satisfied with the system with the highest mean 3.90 (SD=0.52). Future improvement towards the system such as on the user interfaces and the performances of the system.

# TABLE OF CONTENT

<b>CONTENT</b>	<b>PAGE</b>
<b>SUPERVISOR APPROVAL</b>	<b>i</b>
<b>STUDENT DECLARATION</b>	<b>ii</b>
<b>ACKNOWLEDGEMENT</b>	<b>iii</b>
<b>LIST OF TABLES</b>	<b>ix</b>
<b>CHAPTER ONE INTRODUCTION</b>	
1.1 Project Background	1
1.2 Problem Statement	1
1.3 Project Objective	2
1.4 Project Scope	3
1.5 Project Significance	3
1.6 Project Framework	4
1.7 Gantt Chart	5
1.8 Expected Outcome	7
1.9 Conclusion	7
<b>CHAPTER TWO LITERATURE REVIEW</b>	
2.1 Introduction	8
2.2 Alert System	8
2.3 SMS and Email	9
2.4 Methodology	9
2.4.5 Waterfall Model	14
2.5 Similar Systems	15
2.6 Implication Literature Review To Project Development	17
2.7 Conclusion	18
<b>CHAPTER THREE METHODOLOGY</b>	
3.1 Introduction	19
3.2 Methodology Overview	20
3.2.1 System development Life Cycle (SDLC)	20
3.3 Preliminary Investigation Phase	23
3.4 The Analysis Phase	23
3.4.1 User Requirement	24

3.4.2	System Requirement	24
3.5	The Design Phase	25
3.5.1	Context Diagram	25
3.5.2	Functional Hierarchy Diagram	26
3.5.3	Data Flow Diagram Level 0 (DFD)	27
3.5.4	Entity Relationship Diagram (ERD)	28
3.5.5	Table of Product	30
3.5.6	User Interface	34
3.6	The Development Phase	35
3.6.1	Hardware and Software Requirement	35
3.7	The Testing Phase	38
3.7.1	System Testing	38
3.7.2	System Evaluate	39
3.8	Conclusion	43
<b>CHAPTER FOUR ANALYSIS AND DISCUSSION</b>		44
4.1	Introduction	44
4.2	Business Process Improvement	44
4.3	Task Submission Alert System	45
4.3.1	Admin Process	45
4.3.2	Student Process	48
4.3.3	Lecturer Process	50
4.4	System Testing	52
4.5	Expert Evaluation	53
4.6	User Evaluation	54
4.6.1	Result Part A: Demographic Data	54
4.6.2	Result Part B: Evaluation Criteria	55
4.7	Project Summary	62
4.8	Discussion	62
4.9	Conclusion	63
<b>CHAPTER FIVE CONCLUSION AND RECOMMENDATIONS</b>		
5.1	Introduction	64
5.2	Contribution	64
5.3	Project Summary	64
5.4	Project Limitation	65
5.5	Recommendation for future Enhancement	66