

UNIVERSITI TEKNOLOGI MARA

**REQUIREMENT ENGINEERING FOR
KANTIN ONLINE SYSTEM**

DIYANA BINTI HALIM KHOO

IT Project submitted in partial fulfillment
of the requirements for the degree of
Master of Science in Information Technology

Faculty of Computer and Mathematical Sciences

July 2016

AUTHOR'S DECLARATION

I declare that the work in this IT Project was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as reference work. This IT Project has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Post Graduate, Universiti Teknologi MARA, regulating the conduct of my study and research.

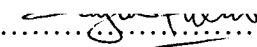
Name of Student : Diyana Binti Halim Khoo

Student I.D. No. : 2013309099

Programme : Master of Science in Information Technology

Faculty : Computer and Mathematical Sciences

IT Project Title : Requirement Engineering of Kantin Online

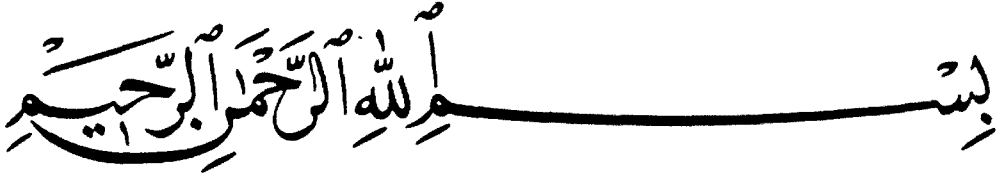
Signature of Student : 

Date : 25 JULY 2016

ABSTRACT

The schools in Malaysia are equipped with a canteen that offered food for the children to purchase during their recess. The current issues gathered from the past studies and newspaper specially had indicated that the food provided are not healthy and expensive compared with the quantity and quality provided. A preliminary study of families with parents working in urban areas such as the Klang Valley had been conducted in order to understand their satisfaction and awareness of the food purchased by their children at the school canteen. It had resulted that parents are concerned with the food purchased by their children at the school canteen, especially the primary school children. Most of the parents do not know what their children had been buying and eating at the school canteen currently. Getting enough food, if possible a healthy and nutrition is very important for children so that their performance in school will not be disturbed or drop. This had led to this research by gathering the requirement engineering for a system called Kantin Online. It is an online system that runs through the web that monitors children food purchase in schools. In order to gather the requirement engineering, this research needs to understand how the school canteen in the primary school manage their operations. Interview and observation were done with the canteen operator and school while questionnaire was distributed within the parents in Klang Valley. From the result of interview, observation and questionnaire, this research had listed the requirement engineering for Kantin Online and translated these requirements into a prototype where it had been evaluated by the HCI experts through Heuristic Evaluation. Although a lo-fidelity prototype had been developed, it has managed to gather user requirements with the experts' feedback helping to enhance the features further. Kantin Online has the potential to help parents manage their child's food intake but this requires further studies.

ACKNOWLEDGEMENT



Dengan nama Allah Yang Maha Pemurah lagi Maha Mengasihani
In the name of Allah, the Most Beneficent and the Most Merciful.

First of all, I would like to praise and acknowledge Allah S.W.T, the Almighty, the Most Beneficent and the Most Merciful on whom ultimately we depend for sustenance and guidance. My humble gratitude to the Holy Prophet Muhammad ﷺ SAW whose way of life has been a continuous guidance for me.

I would like to give my appreciation to all my families especially to my beloved parents, Halim Khoo bin Abdullah and Maznah binti Ahmad; to my husband, Fariq bin Abdullah; and to my sons, Hadif Bin Fariq and Mikael Bin Fariq for their doa, love, patients, support and giving me a strength during my entire studies and to complete this IT project.

Not to forget my special thanks to my project supervisor, Dr Afdallyna Fathiyah Harun for her valuable knowledge, advice and guidance throughout this project progress.

Thank you to all of you.

Jazak'Allah Khairan Kathira.

TABLE OF CONTENTS

	Page
AUTHOR'S DECLARATION	i
ABSTRACT	ii
ACKNOWLEDGMENT	iii
TABLE OF CONTENTS	iv
LIST OF TABLES	vii
LIST OF FIGURES	viii
LIST OF ABBREVIATION/NOMENCLATURE	x

CHAPTER ONE: INTRODUCTION

1.1	Introduction	1
1.2	Research Background	1
1.3	Problem Statement	4
1.4	Research Scope	5
1.5	Research Aim	5
1.6	Research Question	6
1.7	Research Objective	6
1.8	Research Significant	6
1.9	Structure of Project Report	7

CHAPTER TWO: LITERATURE REVIEW

2.1	Introduction	9
2.2	Food and Children	9
2.3	Collaboration Between Parents, School and Canteen	13
2.4	Online Food Purchase	16
2.5	Cashless Community	18
2.6	Conclusion	19