

Universiti Teknologi MARA

Kusen Snacks Bakery System

Nur Hafizah Ahmad

Mariam Abd Malik

Nurul Syafika Roslan

**Thesis submitted in fulfillment of the requirements for
Bachelor of Science (Hons.) Netcentric Computing
Faculty of Computer and Mathematical Sciences**

July 2012

ACKNOWLEDGEMENT

“In the name of Allah, The Most Gracious and Most Merciful”

Assalamualaikum w.b.t.

First and foremost, we thank Allah s.w.t. upon His blessings for us to finish and accomplished our final year project to complete our degree.

We would also love to show our gratitude towards our family for supporting us throughout this whole process of completing the project.

We sincerely acknowledge the advice and guidance of our supervisor and also our coordinator for our final semester, Madam Zolidah Binti Kasiran. She sure had sacrificed her own precious time and put a lot of effort to help us finish our project within the time given. We also thank all lecturers who have shared their knowledge and opinions in the field web development.

Thank you so much to our stakeholder, Mrs Ros Melati for giving us the opportunity to create a new system for her bakery. We honestly thank her for sharing her information and insights for us to understand and finish this system.

Finally, we want to thank all of our friends, especially our classmates who have helped by sharing ideas and have continuously giving moral support upon completion of this project.

Sincere thanks to everyone who have helped directly or indirectly.

Table of Contents

APPROVAL.....	ii
CERTIFICATION OF ORIGINALITY.....	iii
ACKNOWLEDGEMENT.....	iv
TABLE OF CONTENT.....	v
LIST OF FIGURES.....	viii
LIST OF TABLES.....	x
LIST OF ABBREVIATIONS.....	xi
ABSTRACT.....	xiii
CHAPTER 1: INTRODUCTION.....	1
1.1 Problem Statement.....	2
1.2 Project Aim and Objective.....	2
1.3 Project Scope.....	2
1.4 Project Significance.....	3
1.5 Thesis Organization.....	4
1.6 Chapter Summary.....	5
CHAPTER 2: LITERATURE REVIEW.....	6
2.1 Introduction.....	6
2.2 Web Based Application.....	7
2.3 Data Management.....	8
2.4 Types of Methodology.....	9
2.4.1 Waterfall Model.....	9
2.4.2 Spiral Model.....	10
2.4.3 Agile Software Development.....	11

2.4.3.1 Main Stages in Agile Methodology	12
2.4.3.2 Advantages and Disadvantages of Agile Methodology	13
2.5 Programming Language	14
2.5.1 HTML and XML	14
2.5.2 Ruby Programming Language.....	16
2.6 Database.....	17
2.6.1 Oracle Database	17
2.6.2 MySQL Database.....	18
2.7 Software Used in The Project.....	20
2.7.1 VMware Player.....	20
2.7.2 Ruby on Rails	20
2.7.3 Navicat.....	21
2.7.4 Aptana Studio	21
2.7.5 PuTTY	22
2.7.6 WinSCP	22
2.8 Existing Related Project	23
2.8.1 BakeSmart.....	23
2.8.2 The Genesis	24
2.8.3 Artisan Bakery	24
2.8.4 FlexiBake.....	25
2.8.5 ZeusPOS	26
2.8.6 FlexiPOS.....	26
2.8.7 Billing	26
2.9 Chapter Summary	27
CHAPTER 3: METHODOLOGY.....	28
3.1 Initial Phase	30
3.1.1 Preliminary Investigation.....	30
3.1.2 Detailed Studies.....	30

ABSTRACT

Information technology plays a vital role in the business professions nowadays. Web based system made business deals very easy. Kusen Snacks Bakery (KSB) system is a web based application, a solution for Kusen Snacks Bakery to record and keep data. We are providing a fast and efficient way of entering and storing data using database management system. There is an issue of manual filing of KSB consumed more spaces to recorded data, more time to find certain details. As a result, more office equipment is needed to keep all files and it is difficult for staffs to retrieve data. Furthermore, reporting requirement is getting more complex as number of orders is different each day and has been increasing as the business developed. The methodology that has been chosen is the agile methodology. It is the best choice because it helps teams respond to the unpredictability of building software or application web based through incremental and iterative work cadences. The emergence of this system can help the staff a lot in doing their work. Therefore, they can manage their work properly. The conclusion is that an easy-to-use interface and database has been created for KSB to achieve the initial objective of this project.

Keywords: KSB System, web application, agile methodology.