Universiti Teknologi MARA

HALAL INGREDIENTS INFORMATION WEB BASED SYSTEM IN THE CONTEXT OF E-BAKERY

FATIMAH DIYANA BINTI GHANI

Thesis submitted in fulfillment of the requirements for

Bachelor of Science (Hons) Information Technology

Faculty of Computer and Mathematical Science

April 2010

ABSTRACT

This project research is about developing a web based system for certifying of ingredient that used in dairy product is halal and from undoubted resources. Therefore, the purpose of this project research is to assist customer especially Muslim in obtaining the correct information about the halalness of a product. The research and methodology in this project involved of four major components such as Planning, Analysis, Design, and Development. This methodology known as a Waterfall Model and usually many developers using a Waterfall Model because it is well understood and a popular model among all models. In results and findings, there are many halal logos from overseas that approved by JAKIM but all the bodies that produce these types of logo need to go through the procedure of Foreign Halal Certification when entering Malaysia's market.

Keyword: Halal, Dairy Product, Waterfall Model

ACKNOWLEDGEMENT

In the name of Allah, the Most Merciful, I would like to thank Him for his His bless all the way and for giving me the strength and patience in completing this thesis.

I would also like to dedicate my special thanks to my supervisor, Puan Nor Aziah binti Daud and also to my thesis coordinator, Puan Rozianawaty binti Osman from Information Technology Department for their continuing assistance, encouragement and for sharing knowledge.

Not to forget to express my feeling of gratefulness to those involved in this study; all my friends and FSKM (Faculty of Computer and Mathematical Sciences) lecturers.

Lastly, I would also thank my beloved family for understanding my commitment with my Degree studies as well as this thesis.

Thank you all for assisting and helping me in making this thesis a possible one.

TABLE OF CONTENTS

APPROVAL		ii
DECLARATION		iii
ACKNOWLEDGEMENT		iv
ABSTRACT		v
TABLE OF CONTENTS		vi
LIST OF TABLE		x
LIST OF FIGURES		xi
CHAPTER 1: INTRODUCTION		1
1.0	Introduction	1
1.1	Background	1
1.2	Problem Statement	3
1.3	Objective of the Study	3
1.4	Scope of Research	4
1.5	Significances of the Study	4
CHAPTER 2: LITERATURE REVIEW		5
2.0	Introduction	
2.1	Halal Concept	5
2.1.1	Definition Of Halal	5
2.1.2	Halal Logo	6
2.1.3	Halal Certification System	7
2.1.4	The products/foods considered haram (forbidden)	8
2.2	Bakery Store	9
2.3	Dairy Product	9
2.3.1	Cheese	10

2.3.2 Chocolate 12

2.3.3 Cream 13

2.4 Web Development 14

2.4.1 Web based system 14

2.4.2 Web Development Methodology 14

2.5 Definition of Data Model 15

2.5.1 Entity 15

2.5.2 Attribute 15

2.5.3 Relationship 15

2.6 Definition of Database 16

2.6.1 Database Design 16

2.6.2 Database Model 17

2.7 Web Application and Development tools 22

2.7.1 Definition of Web Application 22

2.7.2 Development tools 23

2.8.3.1 Hypertext Preprocessor (PHP) 23

2.8.3.2 Macromedia Dreamweaver 23

2.8.3.3 MySQL 24

CHAPTER 3: METHODOLOGY 22

3.0 Introduction 22

3.1 System Development Methodology 25

3.1.1 Planning 28

3.1.2 Data Analysis 29

3.1.2.1 Primary Data collection 30

3.1.2.2 Secondary Data Collection 30

3.1.3 Design 30

3.1.4 Implementation 31