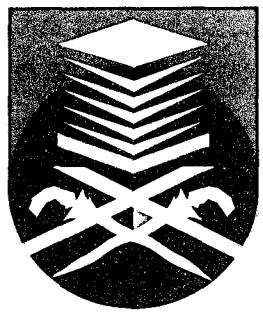

DEVELOPMENT OF WEB DATABASE FOR MALAYSIAN ALZHEIMER'S DISEASE TO MALAYSIAN RESEARCH AND EDUCATION NETWORK (MyREN)

ERNNY ERNIATI MOHD SAYUTI

A thesis submitted in partial fulfilment of the requirement for the awards of Bachelor Engineering (Hons,) in Electrical

FACULTY OF ELECTRICAL ENGINEERING

UNIVERSITI TEKNOLOGI MARA

MALAYSIA

MAY 2009

ACKNOWLEDGMENT

In the name of Allah, the Most Gracious and the Most Merciful.

First of all I would like to express my gratitude to my project supervisor Miss Farah Yasmin binti Abdul Rahman for all her guidance, advice and idea to aid me to complete this final project. All her time spent for discussing this project is most appreciated. I also would like to thank my co-supervisors, En Ahmad Ihsan and Puan Husna for their guidance and idea suggestion to help me to get the better result.

I am grateful to have all friends around me that willing to share an idea and opinion for me to do the best. Therefore, I thank my friends especially, Siti, Jemi, Ayu, Mashira Syaza, Erma and Zukhairi that always stood beside me through my thick and thin

Last but not least, this appreciation also goes to my beloved family who always support me and give strength during my hardest time to complete this project. With their love and care, I manage to complete this project.

Thank you.

ABSTRACT

Nowadays, it is important to have a responsive environment for retrieving data or information as it is a key component of the information system infrastructure of modern research projects. Due to the rapid growth of the global internet, researchers are demanding an improvement of traditional techniques for data storage in order to get desired information in a convenient fashion and at a higher speed. This project develops a web database in order to facilitate the researchers among the Malaysian Research and Education Network (MyREN) members to get the required information about Alzheimer's disease (AD). It helps the researchers to get the comprehensive information about the disease such as the DNA of patients along with their age and gender. The database is developed using MySQL and Hypertext Pre-processor (PHP). The Apache web server is used to display the information on the web browser. This system provides the facility to acquire AD information by features of interest for example age, sex, etc. Security is affordable by restricting access only to MyREN members. This web database provides a user friendly environment for ease of data access and a significant enhancement in data retrieval rate.

TABLE OF CONTENTS

CHAPTER	TITLE	PAGE
	AUTHOR DECLARATION	**i**
	SUPERVISOR CERTIFICATION	**ii**
	ACKNOWLEDGEMENT	**iii**
	ABSTRACT	**iv**
	TABLE OF CONTENTS	**v**
	LIST OF FIGURES	**vii**
	LIST OF ABBREVIATIONS	**x**
1	**INTRODUCTION**	**1**
	1.1 Background of Study	1
	1.2 Problem Statement	2
	1.3 Project Objectives	3
	1.4 Scope of Project	3
	1.5 Thesis Organization	4
2	**LITERATURE REVIEW**	**5**
	2.1 Alzheimer's Disease (AD)	5
	2.2 Web Database	6
	2.3 *MySQLl* Overview	7
	2.4 *PHP* Overview	8
	2.5 *phpMyAdmin* overview	9
	2.6 *JOOMLA!*	10
	2.7 Malaysian Research and Education Network (MyREN)	11

3	**METHODOLOGY**		**13**
	3.1	Introduction	13
	3.2	Literature Review	13
	3.3	Development of Database	14
		3.3.1 Creating and Using a Database	14
		3.3.2 Creating and Selecting a Database	15
		3.3.3 Creating a Table	15
		3.3.4 Insert Data Into Table	17
		3.3.5 Selecting All Data	17
	3.4	Development of Web Site	18
	3.5	Deployment of Web Server	31
	3.6	Establishment of Network Linked to MyREN	31
4	**RESULTS AND DISCUSSIONS**		**41**
	4.1	Introduction	41
	4.2	Web Page Database Result	43
	4.3	Network Connection Result	50
		4.3.1 Server Site	51
		4.3.2 Client or Web Browser Site	53
5	**CONCLUSION**		**55**
	5.1	Conclusion	55
	5.2	Future Recommendation	55
REFERENCES			**56**
APPENDICES			**58**