# UNIVERSITI TEKNOLOGI MARA

# USABILITY EVALUATION OF MALAYSIA SECONDARY SCHOOLS WEBSITES IN FEDERAL TERRITORIES KUALA LUMPUR, PUTRA JAYA AND LABUAN

### ZAWALIAH BINTIISHAK

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** 

### **ABSTRACT**

Since the development of increasingly sophisticated communication technology and gadgets affordable prices, the cost of accessing the Internet becomes more affordable and more people are able to get connected to the Internet. It become a trend today, all organizations have their own websites for specific purposes such as sharing information or sell products to their customers. The development of information technology is also very fast in the field of education. Schools are not left behind in developing their own official webpage. In the event of catching up with this tremendously rising growth of interest and importance to have a website, sometimes usability aspects are not given serious attention and emphasis during the development phase. This study investigates the usability issues of Malaysia Secondary Schools Websites in Federal Territories Kuala Lumpur, Putrajaya and Labuan using selected automated tools that is Web Page Analyzer (websiteoptimization.com), DeadLink Checker and Broken Link Checker. The samples of 53 websites of secondary schools were collected based on list of secondary schools that derived from Education Management Information System (EMIS Online), a web portal developed and maintained by Malaysia Ministry of Education. The web portal can be accessed at https://emisportal1.moe.gov.my/emis/emis2/emisportal2/. The data collected and then analyze with statistical application (SPSS) based on usability measure using Nielson usability guidelines for ideal size of web pages, number of broken links and the webpage size. The result of this study shows that Malaysia Secondary Schools Websites in Federal Territories Kuala Lumpur, Putrajaya and Labuan still lack of usability aspect. This study provide few recommendations for future improvement of the usability aspects of Malaysia Secondary Schools website based on the finding highlighted in this study. This report consists of several sections from the introduction to the field of study, literature review from previous work, research methodology, analysis and finding, conclusion and recommendation. In future, it is suggested that this study will involve larger sample which includes all secondary school websites all over Malaysia in order to present clearer view of the website usability issues in the subject matter.

### **ACKNOWLEDGEMENT**

First of all, I would like to express my gratitude to the Allah SWT because with His blessing finally this report can be completed.

I also would like to convey my deepest appreciation to my supervisor Dr Wan Abdul Rahim bin Wan Mohd Isa for patiently guiding me, encouraging me, always keep on supporting and motivating me in completing this report.

Special thanks to my examiner Puan Hajjah Jamaliah Taslim, even though I just know her, her warmest support and guidance always cheer up my gloomy days.

Last but not least, I would like to extend my special thanks to my family especially my husband and daughters for their support and understanding when I am busy with my study.

May Allah bless all of them.	

Thank you.

# TABLE OF CONTENTS

					Page
AUI	THOR'S DECLAR	ATION			i
ABSTRACT					ii
ACKNOWLEDGEMENT					iii
TABLE OF CONTENTS LIST OF TABLES					iv
					viii
LIST	Γ OF FIGURES				X
CH	APTER 1- INTRO	DUCTION			
1.1	Introduction				1
1.2	Research Backg	round			1
1.3	Problem Statement				2
1.4	Research Questi	ons			3
1.5	Research Object	tives			3
1.6	Scope	of	the	Research	3
1.7	Significance	of	the	Research	4
CHA	APTER 2 - LITERA	ATURE REV	IEW		
2.1	Education in Malaysia - Malaysia Secondary Schools				6
2.2	Secondary school	website			7
2.3	Usability				8
2.4	Web Usability				9
2.5	Importance	of	Web	Usability	10

# **CHAPTER 3 - METHODOLOGY**

APPENDICES		
REFERENCES		
	5.1.2 Recommendations	42
	5.1.2 Recommendations	42
	5.1.1 Limitations	41
5.1	Conclusion and Recommendation	40
CHAI	PTER 5 - CONCLUSION	
4.2	Discussion	38
4.1	Usability Analysis	21
CHAI	PTER 4 - DATA ANALYSIS AND FINDINGS	
3.5	Phase 4 - Report Writing	20
	3.4.1 Web Usability Evaluation	19
3.4	Phase 3 - Data Analysis	18
	3.3.3 Usability Testing Tools	15
	3.3.2 Selection of Websites	15
	3.3.1 Primary Data	15
3.3	Phase 2 - Data Collection	14
3.2	Phase 1 - Knowledge Acquisition and Preliminary Study	14
3.1	Research Approach and Methodology	12