

UNIVERSITI TEKNOLOGI MARA

**EVALUATION ON ACCESSIBILITY OF HOMESTAY
WEBSITE IN MALAYSIA USING WCAG 2.0**

NADHIRAH BINTI ARIFFIN

Thesis submitted in partial fulfillment of the requirements
for the degree of

Master of Science in Information Technology

Faculty of Computer and Mathematical Sciences

July 2014

ACKNOWLEDGEMENT

First of all, I express my gratitude to Allah S.W.T for His blessing and His mercy in completing my final research within the given time. Without His consent, I would never have the ability to finish with anything in this research.

I would like to take this opportunity to convey my appreciation to my supervisor, Dr. Wan Abdul Rahim bin Wan Mohd Isa for his knowledge, guidance, encouragement, comment, ideas and support that tell me to improve the research skills and to produce a better quality in my research. Without his guide, I might not be able to finish according to the requirement that needed in my research. I also would like to express my appreciation to my lecturer, Dr. Jasber Kaur A/P Gian Singh for her guidance, criticism and advice for the betterment of this research report.

I also would like to thanks all of my family member for their never ending support, financial and encouragement to complete this research and report completely. Lastly, thanks to all my friends for their moral and co-operations. May Allah S.W.T. bless them all.

Thank You.

Abstract

Advancement in technology has become world's largest integrity and competitiveness that rapidly grow in the intelligent technology in order to provide rich information that's available to all people all around the world. It is also known as the world of global knowledge. Nowadays, as the website becoming increasingly important to be accessible by people, many Homestay website in Malaysia is still low in term of availability and accessibility aspects to the people with disabilities. The website allows people to search all kind information and help people to find the most optimal ways in searching for a better place to stay for their vacation. All kind facilities would be given to people to make the best decision at any time. Homestay website that designed without considering the accessibility are not available and accessible to the disabled people which is important to heighten and enhance the quality of peoples knowledge via online. Furthermore, the accessibility of the website is essentials as Homestay website receives a high weight of users' activities and various kinds of users, including disabled people consistently give experience learning more about Malaysian culture and religion. This paper investigates the accessibility issues of Malaysia Homestay websites by using WCAG 2.0 guidelines.

TABLE OF CONTENTS

CONTENTS	PAGE
STUDENT'S DECLARATION	ii
ACKNOWLEDGEMENT	iii
ABSTRACT	iv
TABLE OF CONTENTS	v
LIST OF TABLES	viii
LIST OF FIGURES	ix
CHAPTER 1: INTRODUCTION	1
1.1 Research Background	1
1.2 Problem Statement	3
1.3 Research Questions	4
1.4 Research Objectives	5
1.5 Research Scopes	5
1.6 Research Significance	6
1.7 Research Organizations	7
CHAPTER 2: LITERATURE REVIEW	8
2.1 Web Technologies	8
2.2 Homestay	10
2.3 Malaysia Homestay Website	11
2.4 The importance to have an accessible Homestay Website	13
2.5 Web Accessibility	15
2.5.1 The Use of Web Accessibility	16
2.5.2 Web Accessibility guidelines and standard 508	17
2.5.3 Web Accessibility Guidelines, WCAG 1.0	20
2.5.4 Web Accessibility Guidelines, WCAG 2.0	22

2.5.5 Section 508 standard	24
2.5.6 Comparison between the guidelines used in web accessibility	26
a. Similarities	27
b. Differences	28
c. Advantages of WCAG 1.0 WCAG 2.0	30
d. Disadvantages	32
e. Types of disabled people that affect the use of website	32
f. Accessibility Evaluation Method	35
CHAPTER 3: METHODOLOGY	38
3.1 Introduction	38
3.2 Research Paradigm	38
3.3 Research Approach	40
3.4 Research Strategy Inquiry	42
3.5 Research Framework	44
3.6 Research Design	45
3.6.1 Phase 1: Research Planning and Literature Review	45
3.6.2 Phase 2: Pilot Data Collection	46
3.6.3 Phase 3: Data Collection and Analysis	48
3.6.4 Phase 4: Final Documentation	50
3.7 Selection of Homestay Website in Malaysia	51
3.7.1 Web Accessibility Evaluation Testing Tools	52
3.7.2 Web Accessibility Evaluation	53
3.7.3 Evaluation Procedure	53
3.8 Conclusion	55
CHAPTER 4: RESULT AND FINDINGS	56
4.1 Introduction	56
4.2 Accessibility Analysis on Malaysia Homestay website	56
4.3 Malaysia Homestay website with High Critical Error	66