

Universiti Teknologi MARA

**Visualizing Masyair Operation with the
Use of Interactive 3d Graphic**

Nur Aliyatul Akma Binti Yahya

**Thesis submitted in fulfillment of the requirements for
Bachelor of Computer Science (Hons.) Multimedia
Computing**

December 2016

ACKNOWLEDGEMENT

“In the name of Allah, the most Gracious and the most Merciful May His blessing be upon the Prophet Muhammad S.A.W.” Alhamdulillah, praises and thanks to Allah because of His Almighty and His utmost blessings, He gave me strength and ability for me to finish this research within the time duration given. Firstly, my special thanks goes to my supervisor, Dr Nazrul Azha Mohamed Shaari for his supervisions. His guidance and support from the earlier research until the end. I also would like to acknowledge my CSP650 lecturer, Dr Marina Ismail whose assists, and suggests me during whole my research until final stage. A special thanks to Ustaz Hashim Fahmi, trainer for Hajj course who help me during my research. The same goes to all other lecturers who support and remind me until this stage. Special appreciation also goes to my beloved parents for their everlasting love and supports in many ways. Not to forget my relatives and others family members who spend their time to be my user for testing the prototype. Last but not least, I would like to give my gratitude to all my friends especially my classmates, CS253 students, WeAre Members for help and for their kindness, working together and sharing knowledge together. Thank you for the friendship and memories and I would like to thanks for those who helped me whether directly or indirectly. May Allah S.W.T repay all you kindness.

Thank you.

ABSTRACT

Masyair Operation is the most important part in Hajj rituals. It has lot of information that need to be memorize such as *doa*, pillars, steps, ban and more. Understanding and imagining every steps in the rituals is the hardest part for pilgrims especially for the first timer and most of the elderly pilgrims. With the help of technologies nowadays, the complexity in the operation can be minimized. One of the techniques that can benefit from information of the Hajj ritual this problem is by creating a teaching tool not only focusing on content but also help in understanding important. This study found that a teaching tool needs to apply various multimedia elements. This study adapt the Cognitive Learning Theory for the content and ADDIE model for development methodology. Based on Week 10 in Hajj Course this study was inspired to develop a tool that can assist pilgrims in performing Hajj peacefully. This study involve adults as target user. It is found that 70% user are able to understand the content but after using the prototype, the percentage increase to 10%. For difficulties, using the prototype is easier with 70% than using slide-based which 40% is. Based on the result shows that most of the users enjoy using the prototype with 70% rather than using slide-based which at Medium and Bore level. As a result, it can help pilgrims understanding the Masyair Operation further.

v
TABLE OF CONTENTS

CONTENT	PAGE
SUPERVISOR APPROVAL	ii
STUDENTS DECLARATION	iii
ACKNOWLEDGEMENT	iv
ABSTRACT	v
TABLE OF CONTENTS	vi
LIST OF FIGURES	ix
LIST OF TABLES	xi
 CHAPTER ONE: INTRODUCTION	
1.0 Overview	1
1.1 Problem Statement	1
1.2 Objectives	2
1.3 Scope of the Project	2
1.4 Significant of study	2
1.5 Conclusions	3
 CHAPTER TWO: LITERATURE REVIEW	
2.0 Introduction	4
2.1 Hajj	4
2.1.1 Masyair Operation	5
2.1.2 Importance of Masyair Operation	5
2.1.3 Masyair Operation Process	5
2.1.4 Hajj Course Notes	6

CHAPTER 1

INTRODUCTION

1.0 Overview

Hajj or pilgrimage to Mecca is the last pillar in Islam. Abdullah bin Umar-RAA, said: I heard the Messenger of Allah the Exalted, sallallahu 'alayhi wasallam-SAW, say: "Islam has been built upon five things - on testifying that there is no god save Allah, and that Muhammad SAW is His Messenger; on performing salah; on giving the zakah; on fasting during Ramadhan; and on Hajj to the House (Kaa'ba)". In Muslim world, at least once in their life time people from various places, cultures and languages perform the Islamic Pilgrimage (Hajj) ritual. Every year, the cities of Mecca and Medina in Saudi Arabia have about millions of visitors. In Islam, Hajj is a unique characteristic that necessitates traveling and must be performed in Mecca on particular dates and times. During Hajj process there is an operation called as Masyair operation. It is the peak of the hajj rituals that include 'wukuf' in Arafah, spending time in Muzdalifah and stoning in Mina.

1.1 Problem Statement

There are five pillars of Islam and Hajj is one of the five pillars of Islam. At least once in a lifetime every capable and able-bodied Muslim is compelled to perform the pilgrimage to Mecca as Allah the almighty said in Quran (3:97) "pilgrimage to Kaa'ba is a duty that mankind owes to Allah the Exalted (God), those who can afford the journey". Muslim needs to prepare themselves before enter to the holy place. The Hajj procedures are difficult with much info, rules, tasks, practical steps and Al-Quran verses that must be memorized (Yusoff et al., 2011). Yusoff et al. (2011) found that based on their survey,