Universiti Teknologi MARA

Learning Jawi Character Game

Nurul Fadhillah Binti Anuar

Thesis submitted in fulfilment of the requirements for Bachelor of Computer Science (Hons.) Multimedia Computing Faculty of Computer and Mathematical Sciences

January 2018

ACKNOWLEDGEMENT



With the name of Allah the most Gracious, the most Merciful creator,

Alhamdulillah, praises and thanks to Allah because of His Almighty and His utmost blessings, I was able to finish this research within the time duration given. Firstly, my special thanks goes to my supervisor, Dr. Hayati Abdul Rahman because accepted me to be supervise. She also put a lot of patience, support and guidance in finishing this thesis. Without her supervising I'm not able to finish this thesis.

Special appreciation also goes to my Project coordinator, Dr. Marina Ismail because her support, guidance and moral advice in the class within two semester so I am able to complete this thesis.

In addition, I am also would like give my gratitude to my beloved parents and family members because always prays for my success, support, understanding, trust, and advise that give to me until I completed my project.

Last but not least, I would like to give my gratitude to my dearest friend because always stay besides me and support all the time. All of them give the best effort in helping me to completing this project.

Thanks you and may Allah bless you all.

ABSTRACT

Nowadays, the education processes are not based on the traditional classrooms only but it assisted with interactive learning whereas on the web or mobile application. Therefore learning Jawi character are developed to enhance Jawi learning among primary school kids in their learning because currently teachers are use textbook and flashcards to teach them based on the investigation. However, the Jawi is slowly forgotten because the younger generation to be unfamiliar with the alphabet. Then, they need extra material to help them to recognize and memorize Jawi alphabets in indirect approach. Besides that, the development of the project is based on system development life cycle (SDLC) model. The waterfall model are consist six phase which is the first phase is Knowledge Acquisition, System Requirement, System Design, System Development, Data Analysis and Result Analysis. Knowledge acquisition phase where need to do some research and understand the flow of the project. For the system requirement phase, it will tell about the software and hardware is needed to complete this project. Next is system design, where it will continue to develop the storyboard, design the step by step of the flow and design the user interface. After that, for system development it will use Construct 2. The puzzle method was implemented and the prototype was tested. Then, to collect data analysis a set of questionnaire are distributed on a specific target. After that, a question was collected and the users are given the game as part of the functional testing. After playing the game, they will distribute the same question to test their IQ after playing the game. Result analysis are done when the entire question from the user are analysed and interpreted. Last but not least, for the future enhancement it is recommended to researcher added new features such as 3 dimensional graphics and animations to attract them learn more about Jawi.

TABLE OF CONTENTS

CONTENT

PAGE

SUPERVISOR APPROVAL	ii
STUDENT DECLARATION	iii
ACKNOWLEDGEMENT	iv
ABSTRACT	v
TABLE OF CONTENTS	vi
LIST OF FIGURES	viii
LIST OF TABLES	ix
LIST OF ABBREVIATIONS	Х

CHAPTER ONE: INTRODUCTION

1.1 Project Background	1
1.2 Problem Statement	2
1.3 Project Objectives	2
1.4 Scope	3
1.5 Significant of the Study	3
1.6 Conclusion	3

CHAPTER TWO: LITERATURE REVIEW

2.1 Introduction	5
2.2 Education	5
2.2.1 Education in Jawi	6
2.2.2 Learning Jawi in Malaysia	6
2.2.3 Educational Game	6
2.3 Gamification	7
2.3.1 Games & Learning	7

CHAPTER 1

INTRODUCTION

1.1 Project Background

Historical records point that the Jawi script has been in existence in the Malay Archipelago since in the 14th century linked with the propagation of Islam from west Asia. Actually Jawi script derived from Arabic script and contains the letter of the Arabic writing system. Jawi is still used because it is closely related to the Islamic religion. Jawi script is important to maintain the image and identity of the Malay culture.

Ahmad Zabidi (2014) was mentioned Jawi are important in Islamic education because this skill will help the children for reading al-Quran fluently, learning Arabic language or other Islamic religious subject. For those student are not perform in in Islamic education, they will left behind in the Islamic subjects as Jawi is commonly used by teachers as a tool or medium to teach these subject in school.

According to Kosmo! (2016), our advisor to the Government Socio-Cultural Affairs has purposed that the publication in Jawi script will improve the mastery of the younger generation against Jawi which is part of history. Besides that, Jawi writing press releases need to be competitive such as the Chinese language newspaper.

Based on information provided by Malaysia Kini (2015), Terengganu MCA was mentioned that learning Jawi from billboards is not feasible. This is because all commercial signboard will enlarge the burden of business operators.