Universiti Teknologi MARA

A Tour at National Museum using Desktop Virtual Reality

Nurul Syafiqah Binti Ismail

Thesis submitted in fulfilment of the requirements for Bachelor of Computer Science (Hons.)

Multimedia Computing

JANUARY 2018

ACKNOWLEDGEMENT

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 Rose Hafsah Binti Ab Rauf for providing invaluable guidance, comments and suggestions regarding the topic. I would specially thank her for constantly motivating me to work harder and gave a moral support.

Special appreciation also goes to my beloved parents for helping me, giving encouragement, enthusiasm and invaluable assistance to me. Without all this, I might not be able to complete this subject properly.

Last but not least, I would like to give my gratitude to my dearest friend who always tried their best to give their support for me.

ABSTRACT

A tour at National Museum using Desktop Virtual Reality presents a tool for users to view the artefacts at the museum in 3D view. It is for those who have trouble to go to the museum for whatever reasons. To make sure the user could get the information about the artefacts as they were in the museum, the use of 3D are applied sto bring them the presence of the object itself. The detailed in 3D views and the information about the artefacts that this project can give is the measure to the user to recognize that it can give them information same as the real museum. The user just need to walk around in the 3D environment and if they want to get the information about the object, they just need to touch the specific object and it will give the detailed info about it. The evaluation obtained from the school students who still learning history where this project could be their reference in their learning process. The result from the evaluation used for fixing the project if there is some problem happen.

TABLE OF CONTENTS

CONTEN	T	PAGE
SUPERVIS	OR APPROVAL	ii
STUDENT DECLARATION		iii
ACKNOWI	LEDGEMENT	iv
ABSTRAC	Γ	V
TABLE OF CONTENTS		vi
LIST OF FIGURES		vii
LIST OF TABLES		ix
LIST OF A	BBREVIATION	X
CHAPTER	ONE: INTRODUCTION	
1.1	Project Background	1
1.2	Problem Statement	2
1.3	Project Objective	3
1.4	Project Scope	3
1.5	Significant	3
1.6	Conclusion	4
CHAPTER	TWO: LITERATURE REVIEW	5 - 13
CHAPTER	THREE: METHODOLOGY	
3.1	Project Formulation Framework	14 - 16
3.2	Analysis	16
3.3	Design	16
3.4	Development	18 - 22
	3.4.1 Software and Hardware requirement	
	3.4.2 3Ds Max	
	3.4.3 Unity	

CHAPTER 1

INTRODUCTION

1.0 INTRODUCTION

Nowadays, we live in surroundings full of increasing technology. We need to take this opportunity because living in technological world allows people to achieve many great things. By this, it can be a benefit with a huge success to lots of people as long as they know how to use it correctly. With the era of technology, people need to take chances so that they can come up with better facilities in many things such as education. Education is important in our life so it will be much easier if we can access it in just one click of finger. It is not only by getting information from the books or the internet, but in a better form. By obtaining information from the books, people always not interested to read it and they always find reading books is boring. Therefore, this project aims is to bring Virtual Reality (VR) as a way for the user to improve and gain their knowledge on the learning content better than books could do.

1.1 PROJECT BACKGROUND

This project is to develop a desktop application, using virtual reality tour for the secondary school students. This application will virtually bring the students to the virtual museum. So that the students can feels like they are on a trip by using this application. This application also is to make sure the students can learn and get information without needs go to that place physically. Due to lack of time and other problems, this application could help them to gain new information in interactive ways. It also can attract the students to know better about the leaning things.