Universiti Teknologi MARA

Synthesis Of Sign Language Using Multimedia Technique

Sharifah Norliza Bt Syed Nariyat

Thesis submitted in fulfillment of the requirements for Bachelor of Science (Hons) Business Computing Faculty of Information Technology And Quantitative Science

October 2004
DECLARATION

I certify that this thesis and the research to which it refers are the product of my own work and that any ideas or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline.

OCTOBER 11, 2004

SHARIFAH NORLIZA BT SYED NARIYAT
2001187218
ACKNOWLEDGEMENT

Praise be to Allah, most gracious, most beneficent, thus final project report has been successfully completed. I would like to give my sincerest appreciation and gratitude to these people for contribution towards achievement of this project. Without their guidance, help and support, I could not have proposed and completed my final year project paper including this report.

First of all, I want to express a million of thanks to En. Syamsul Ariffin Yahaya for being my supervisor and for his time, patient and guidance. Also thank you for all suggestions and ideas and advice on proposing this project. His constructive idea and critics, also cooperation and greatly helped me making this project possible as it is now.

Secondly, to Puan Salwani Bt Jaafar as my Program Coordinator by giving so much guidance in advising in achievements of this project.

Also not forget to En. Faisal Ibrahim as my examiner in this project. Thank you for your guidance and for examined me fairly.

Lastly, a great accomplishment to all of my family and friends that always helpful and be an advisor during my difficult time to finish this project. All your support and encourage will be always keep in my mind.

THANK YOU...
Synthesis of sign language's project is to produce a product of basic learning system in sign language. Base on the concern of the problem that has been face by disabled people and their family members to get the learning source of sign language, this project is one of the solutions to varies the tools of learning on this difficulties. The aimed of the project is to make an interactive system of sign language learning that can be used by all level of people. This system make learning more interesting which it replace manual instructor into one system by using multimedia technique. So many researched has been done in achieving the objectives of this project. The methodologies used on this project are project definition, creative concept, create a storyboard, application development, prototype and publish application. The implementation of this system need a lot of effort such as the software use and the knowledge on the multimedia techniques. The project will came out with an interesting interactive learning that has combination of video and 3D hand techniques. By this combination of technique, hopes it will ease the used of learning environment and as a user friendly to the learner.
TABLE OF CONTENT

TITLE PAGE i
DECLARATION ii
ACKNOWLEDGEMENT iii
ABSTRACT iv
TABLE OF CONTENT v
LIST OF FIGURE ix
LIST OF ABREVIATION x

CHAPTER 1
1.0 BACKGROUND OF THE PROBLEM 1
1.1 PROBLEM STATEMENT 2
1.2 OBJECTIVE OF THE RESEARCH 2
1.3 PROJECT SCOPE 3
1.3 SIGNIFICANCE OF RESEARCH 3

CHAPTER 2
2.0 SIGN LANGUAGE (SL) 4
2.1 RESOURCES OF SIGN LANGUAGE 5
2.2 BRINGING MULTIMEDIA TECHNIQUE IN SIGN LANGUAGE LEARNING.
   2.2.1 Multimedia Approach As learning Platform 7
   2.2.2 Multimedia Defined 8
   2.2.3 The Constructivist Learning Environment & Technology 10
   2.2.4 Multimedia can enhance student engagement. 11
   2.2.5 Multimedia is an affective and effective tool to use in instruction. 11
   2.2.6 Multimedia motivates students. 12
   2.2.7 Multimedia accesses multiple intelligences. 13