DEVELOPMENT OF TEXT TO SPEECH COMPUTER REMOTE APPLICATION OVER LOCAL AREA NETWORK

Thesis Report

Submitted To Complete The Term
To Get The Bachelor of Computer Degree

by:

Yanuari Brilianto
41507010102

INFORMATICS ENGINEERING DEPARTMENT
COMPUTER SCIENCE FACULTY
MERCU BUANA UNIVERSITY
JAKARTA
2011

STATEMENT OF ORIGINALITY

I hereby certify that I :

NIM	:	41507010102
Name	:	YANUARI BRILIANTO
Title of Undergraduate Thesis	:	**Development of Text to Speech Computer Remote Application Over Local Area Network**

Am the author of the undergraduate thesis entitled above. I understand what a plagiarism is and what penalties may be imposed on students found guilty of plagiarism.

Jakarta, January 2011

Yanuari Brilianto

STATEMENT OF APPROVAL

NIM	:	41507010102
Name	:	YANUARI BRILIANTO
Title of Undergraduate Thesis	:	**Development of Text to Speech Computer Remote Application Over Local Area Network**

THIS UNDERGRADUATE THESIS HAS BEEN VERIFIED AND APPROVED BY

JAKARTA, …….

Andrew Fiade ST., M.Kom
Supervisor

Ida Nurhaida, ST., MT
Undergrduate Thesis-writing Coordinator

Devi Fitrianah, SKom., MTI
Head of Informatics
Engineering Department

ACKNOWLEDGEMENT

Through a long and stressful journey, this undergraduate thesis entitled **"Development of Text to Speech Computer Remote Application Over Local Area Network"** finally finished. Most grateful to Allah Subhana Wata'ala for the uncountable help and blessing that make all these things become possible. During the process I have received so much supports, helps, assistances and critics that bring me to this milestone.

Thus in this good opportunity I would like to express my sincere gratitude for them. Those honorable people are as follow:

1. My beloved mother and my beloved father for the support, motivations, love, and prayers.
2. My uncle and aunt for their love, support and for giving me a peaceful shelter to live as long as I study here.
3. My brothers, sisters, cousins, and family for their advice, support and prayer.
4. Mr. Andrew Fiade, ST., M.Kom for the idea, help and friendliness as my supervisor.
5. All the authors of my references for their helpful book, paper, and journal.
6. All of member of Delphi forum, especially at Delphi Indonesia Forum, Mr. Norrit at Delphi Pages forum, Mr. Zarko Gajic at Delphi About.
7. Mrs. Devi, S.Kom., MTI., as the Head of Information Technology Department, and as our mother in Informatical Engineering.

8. Mrs. Ida Nurhaida, ST., MT., as the coordinator of undergraduate thesis-writing.
9. Mr.Anis Cherid, Mr. Indrianto Nugroho, Mrs. Eliyani, Mrs. Ria Hari Gurmita, Mr. Riswan Efendi Tarigan and all of lecturer and staff at Computer Science Faculty.
10. Mrs. Ratna Mutu Manikam and Mr. Moesadin Malik.
11. Mr. Moestanuzul Indrawan, Mr. Boy Yuliadi and Mr. Trival Apriadi for sharing joy, time, opportunity, knowledge and experience at The Central Computer Laboratory of Mercu Buana.
12. My comrades as assistants of computer lab, Loka Nahta, Dwiki Jatikusumo, Ali Akbar, Silvia Amir, Endah Suswanti, my seniors and juniors.
13. My Tae Kwon Do Family, my sister Dessy Hirawati, Andria Sakti Kusuma Ayu, my brother Sony Sunandar, all of Sabeum Nim and Tae Kwon Doin of Tae Kwon Do Mercu Buana.
14. Mr. Syamsir Alam and Mr. Met Sekendra at The Central Computer Laboratory of Computer Science Faculty.
15. My Friends at Informatical Engineering, especially Yuniar Andini, Nadilah Edison, and Rosi Oktaviani.
16. And many other people who strengthen me, giving support, motivation and advice when I whine, that complete my journey on this thesis.

All the people mentioned above have helped to make this thesis what it is; for any shortcomings I alone am responsible. I realized this undergraduate thesis is still way too far from perfect. Thus support, critics, assistance and suggestions for the development of this undergraduate thesis in future would be greatly appreciated.

Jakarta, January 2011

Author

TABLE OF CONTENTS

page

LIST OF FIGURE

LIST OF TABLES

GLOSSARY

Binding	associating an Internet socket to a local port number and IP address or connecting) to a server in client–server computing
Client	is an application or system that accesses a remote service on another computer system, known as a server, by way of a network.
Concatenation	in computer programming, string concatenation is the operation of joining two character strings end-to-end.
Diphone (in Phonetics)	an adjacent pair of phones. It is usually used to refer to a recording of the transition between two phones
IANA	(Internet Assigned Numbers Authority) is the entity that oversees global IP address allocation, autonomous system number allocation, root zone management in the Domain Name System (DNS), media types, and other Internet Protocol-related symbols and numbers.
Phone (in Phonetics)	(the basic unit revealed via phonetic speech analysis) is a speech segment that possesses distinct physical or perceptual properties
Phoneme	(linguistics) one of a small set of speech sounds that are distinguished by the speakers of a particular language.
Phonetics	is a branch of linguistics that comprises the study of the sounds of human speech

Server	a computer program or application running as a service, to serve the needs or requests of other programs (referred to in this context as "clients") which may or may not be running on the same computer.
Thread	in computer science, a thread of execution is the smallest unit of processing that can be scheduled by an operating system.
VCL	(Visual Component Library) is a visual component-based object-oriented framework for developing Microsoft Windows applications. It was developed by Borland for use in, and tightly integrated with, its Delphi and C++Builder RAD tools (now owned by CodeGear, division of Embarcadero Technologies). It is written in Object Pascal.
Windows API	Windows API or WinAPI is Microsoft's core set of application programming interfaces (APIs) available in the Microsoft Windows operating systems.
Flag	refers to one or more bits that are used to store a binary value or code that has an assigned meaning.