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The Graphic User Interface
of The AudioGraph Recorder
(PC version)

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Abstract

With the popularity of the use of computers and the development of the Internet, many multimedia-authoring systems have been developed for computer-based teaching and learning. This is playing an increasingly important role in education. One authoring system is the *AudioGraph* project developed at Massey university of N.Z., which have been developed for recording audio-graphic presentation material for publication in an *html* reference environment, i.e. “on the web”.

One of the tools in the *AudioGraph* project is the *AudioGraph Recorder*, which is a Macintosh application for recording or authoring web-based multimedia presentations. Due to the success of the publication of the *AudioGraph* application and the need of PC users, an *AudioGraph Recorder* for the PCs is required. This project is about the porting of the *AudioGraph Recorder* from the Macintosh platform to the PC platform.

First this project report explains the functionality of the *AudioGraph Recorder* (the Macintosh version), especially how the end users interact with the interface of the *AudioGraph Recorder*, and the corresponding state changes of the controls in the interface.

Then the report compares the development tools used in both platforms. The Macintosh version of the *AudioGraph Recorder* has been developed with the *PowerPlant* framework in *CodeWarrior* environment, but the PC version uses MFC framework in *Visual C++ 6.0*.

This report also describes in detail how the interface of the *AudioGraph Recorder* application was constructed with the MFC, and implementation of some functionality of the application. At the same time some internals of the MFC framework are discussed.

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List of Acronyms

AWT	Abstract Windows Toolkit
API	Application Programming Interface
GUI	Graphics User Interface
JFC	Java foundation class
MDI	Multiple Document Interface
MFC	Microsoft foundation class
OO	Object-Oriented
OOUI	Object-Oriented User Interface
OS	Operation System
RTCI	Run-Time Class Information
RTTI	Run-Time Type Information
SA/SD	structured analysis and structured design
SDI	Single Document Interface
SDK	Software development Kit
UML	Unified Modelling Language