CSCI3280 Project Report
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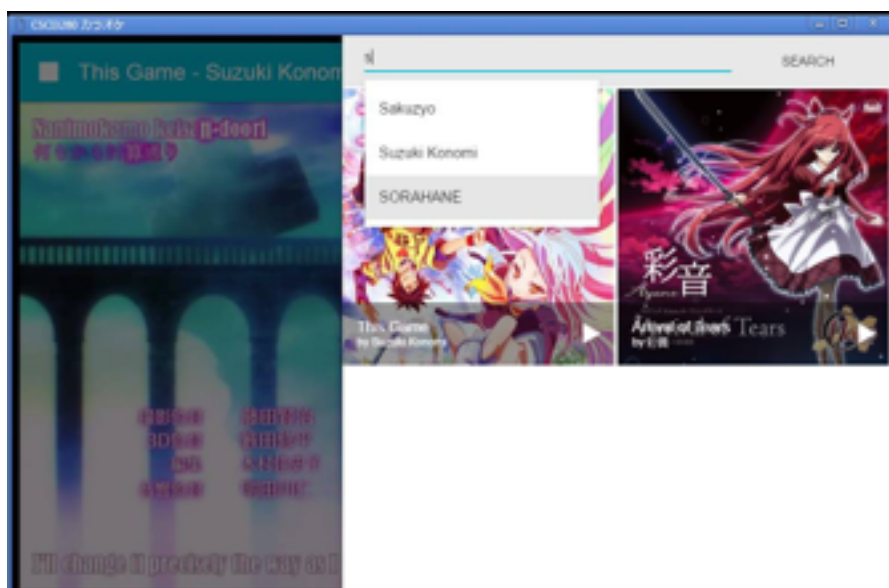FAN Sin Tat - 1155047763
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P2P Karaoke System

Workload division

Work	Work description	PIC
1. Player implementation		
Basic User Interface	Display window, buttons and list control of files	Tse Cheung Yuent
Music Management	A database which stores music information (album picture, title, artist, length)	Ho Chun Kit
Music information display	Music information display scene according to database	Ho Chun Kit
Multi-keyword music searching	Search music in database with multi-keyword	Fan Wai Keung
Music decoding and playback	Decoding AVI, MP4 split and combine frames and audio	Fan Sin Tat
2. Peer-to-peer network system		
Network connection	Connect other PC via the network	Fan Sin Tat
Video Searching	Search video in the database which in the PC within the network system	Fan Sin Tat
Playing criteria	Criteria for streaming	Fan Wai Keung
Real-time video streaming	Streaming video from other PC real-timely	Boris Yau
Peer-to-peer playing	Streaming video from more than one PC simultaneously	Boris Yau
3. Documentation	Report writing	Ho Chun Kit

Operation Manual

1.Searching Screen

This is the screen which user requested to search. It will search through the databases which joint the network, including local database and other node.

User can simply type in the search keyword. The program will show the existing media in the network. After searching, it will response a list of related media which its information like picture, title, artist and so on.

2. Playing Screen

When user chose a media, the program will determent whether the file is in local or in other node, and load to the play like this.

The top bar will show the information of the current playing media and let user go to menu for another search.

Third-party Libraries

FFMPEG	A-Forge.NET	Node-ppm	Node-crc-32
React	Babel	Font-awesome	Material-ui
Webpack	Nwjs		