Mini Project Report

Team (No. 12)
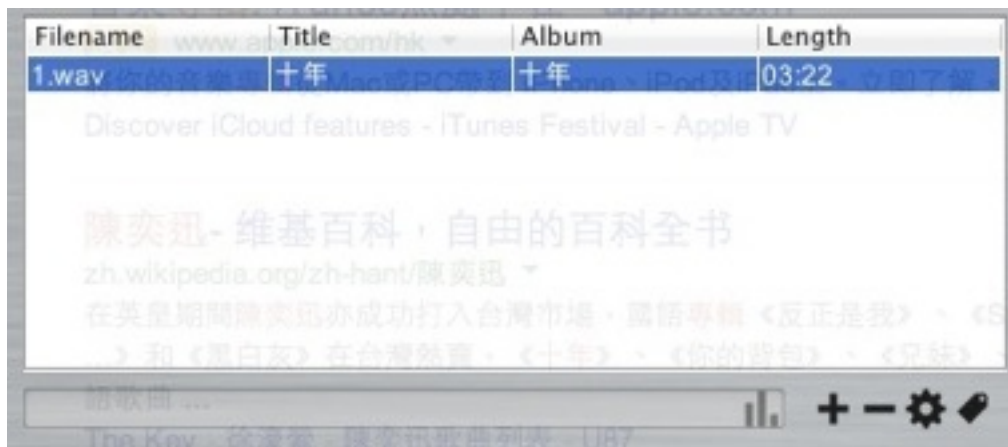
- 1155004396 Lai Tak Yi

- 1155003510 Lam Kam Ho

- 1155012779 Szeto Wai Ling Renita

Workload Division

1155004396 Lai Tak Yi	Audio Playing
1155003510 Lam Kam Ho	Graphic User Interface
1155012779 Szeto Wai Ling Renita	Video Playing

Operation Manual

Playlist: Through the playlist, users can choose a song to play, edit or remove.

Playback Controls: Users can play, stop, pause, resume, jump to a position, or skip to the next or previous song.
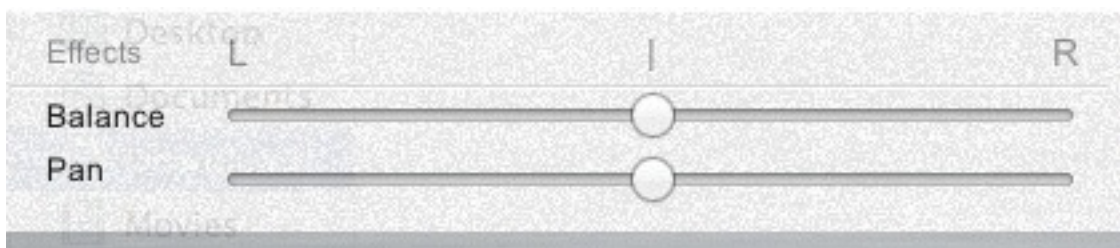
Adding Songs: User can add a song by clicking the add button in the bottom.

Editing Songs: User can edit a song's information by clicking the rightmost button in the bottom.

Removing Songs: User can remove a song by clicking the delete button in the bottom.

Sound Effects: User can control different song effects by clicking the settings button.
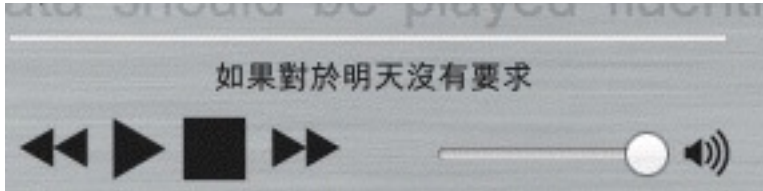

Lyrics: User can load a LRC file by renaming it to the same name as the song file and place it under same directory with the song file.

Third-party Libraries

• Apache Commons IO

• Apache HttpClient

• JavaFX

Enhanced Features

Chinese Lyrics: Unicode is supported. Therefore, lyrics in different languages can be displayed properly. For Chinese, Simplified Chinese is translated to Traditional Chinese.

Other Audio Formats: In addition to WAV, the following audio formats are also supported.

1. AIFC
2. AIFF
3. AU
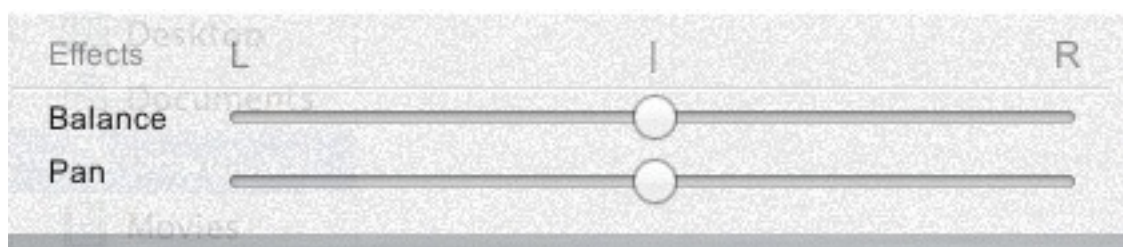4. SND

Video Playing: Video playing is supported.

Dynamical Effects: There are special effects in the GUI under the following situations

- Hover over a button
- Click a button
- Semi-transparent background

Visualization: The current amplitude of the currently playing song is visualized using a bar.

Sound Effects: The following sound effects are supported:

- Balance: The relative balance of the stereo signal of the two speakers
- Pan: The relative left-right positioning of the signal

Additional Playback Controls: The following playback controls are supported:

- Timeline: User can jump to any position of the song using the timeline
- Next and Previous: User can skip to next or previous song
- Pause and Resume: User can pause and resume the playing of the song

Fetching Lyrics from Internet Automatically: The lyrics of a song is obtained automatically from Baidu Music (**http://music.baidu.com**) by using its song name.

Automatically Getting Album Image from the Internet: The album image is displayed on the top-right corner when the song plays. The image is from KKBox (**http://www.kkbox.com).**