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Final Report



“Music Parade”

Group 7

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1 INTRODUCTION

1.1 Project Overview

Our project team is going to make an online music streaming system called "Music Parade". Users can play their favourite songs anytime and anywhere under "Music Parade" with a network connected device via common web browsers.

"Music Parade" provides an alternative with less data retrieval to users of the well-known video streaming system "YouTube" who only want to listen to music.

There are four members in our project team who are responsible for the whole project development. We are going to finish the project within 13 weeks.

1.2 Objective

We will make "Music Parade" to be a capable system that let our users enjoy good music anytime and anywhere with a network connected device. We aim to provide a consistent user experience of our system across various operating systems such as Windows, Mac, Android or iOS. We will make use of HTML5 plus other technologies to achieve the first objective of portability.

Easy manipulation is the second objective of our system. Revisable shortcut keys will be provided to users of various platforms to play, pause, and switch to the previous or next songs. Users of "Music Parade" can easily turn their devices into a music player with thousands of songs by simply a screen touch or a button click.

1.3 Highlights

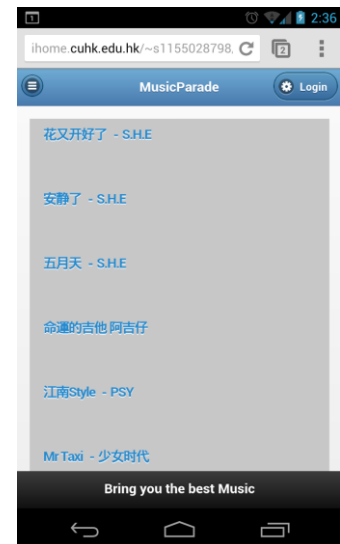
1.3.1 Membership

Users can register as a member of "Music Parade" to enjoy more enhanced functionalities. Registered users can create a personal playlist; share out their favourite list of music to other members; and upload their own music.



1.3.2 Music Playlist

Registered users can login the system to create their personal music playlist. They can add any available songs from the database to their own playlist by a simple click or drag. Registered users can also upload their own music to our server for private use.



1.3.3 Quick Search

Users can search their desirable songs by keywords such as name of the singer or song. Suggested results will be shown immediately after keyword input. Lists of top search results categorized by singers or songs will also be shown, which will serve as a public recommendation for our users. The quick search function will help to reach our goal which let our users to enjoy good music anytime and anywhere with a device connected to the Internet.



1.3.4 Error Tracking

Common errors will be coded and automatically recorded under the system as error codes. Solutions to the common errors will be provided to users for reference. Users can also report to the system any other errors encountered by simply filling and submitting an error form.



1.3.5 Administration

Administrators (admins) of the system will be allowed to manipulate all the music in order to maintain a consistent user experience. Admins are allowed to add, remove and edit the songs, music categories, artists and albums available on the system. Admins will also be responsible for handling any reported errors from “Error Tracking” function. Besides, admins will be obligatory to manage user accounts such as editing role of users or reset user passwords.



1.3.6 Mobile Browser Capability

Our system “Music Parade” will be implemented to support browsers of mobile operating systems such as Android or iOS. A consistent user experience across different operating platforms is one of the objectives of our project.



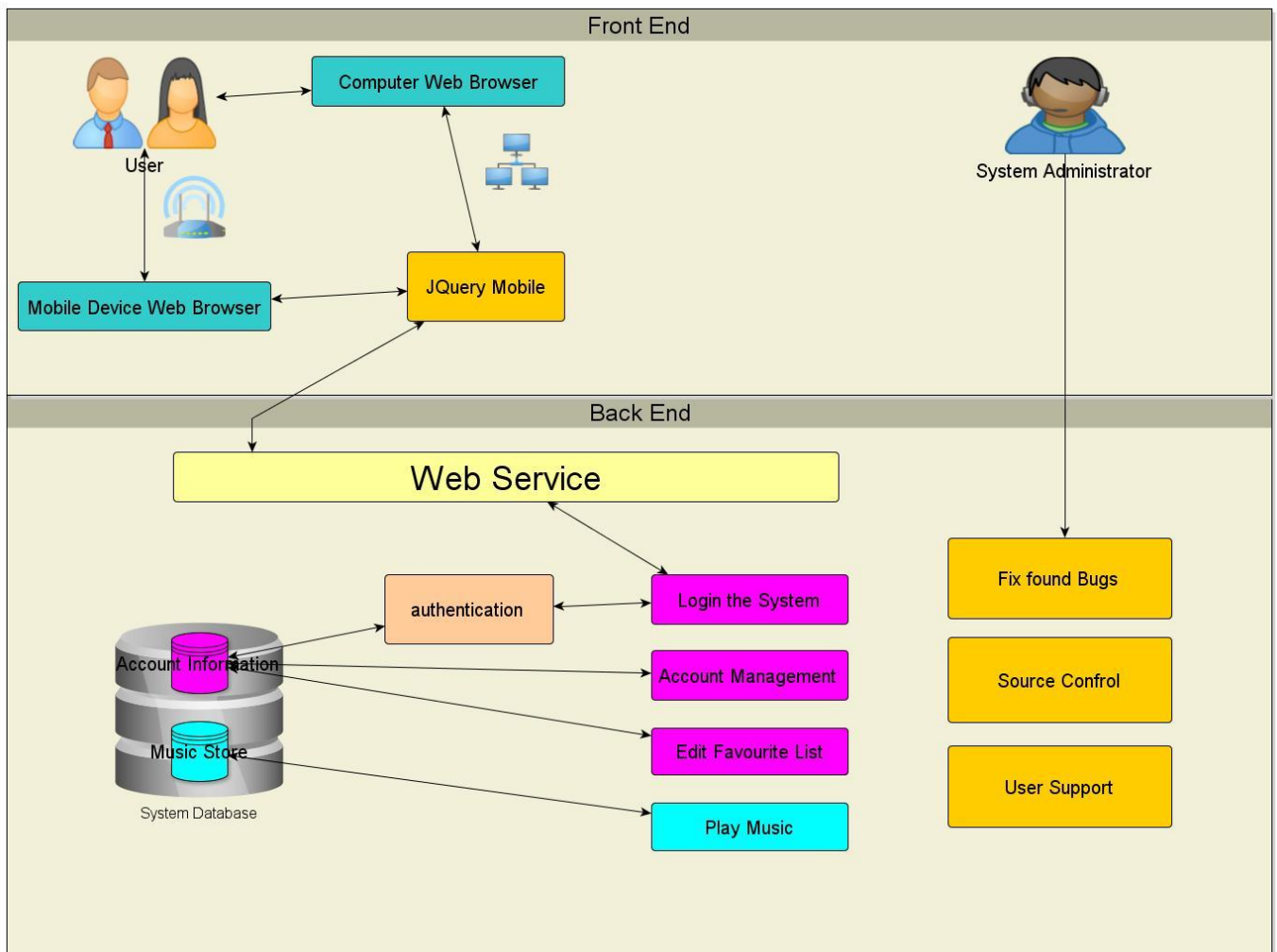
1.4 Project Statistics

Class Name	Number of Functions	Line Of Code
ActionController		
DisplayMusicMainPageActionControl	11	178
ErrorFoundActionControl	1	13
FavoriteMusicActionControl	3	39
LoginFacebookActionControl	3	72
MainActionControl	0	10
PublishMusicFacebookActionControl	1	26
SearchMusicActionControl	1	33
SetSessionActionController	1	18
StoreListMusicActionControl	4	45
Command		
AddFavoriteMusic	2	28
AddMusicInListCommand	2	28
Command	4	45
DisplayMainPageCommand	2	26
DisplayMusicListCommand	2	26
ErrorFoundCommand	2	28
FavoriteMusicCommand	0	9
LoginSystemCommand	2	29
PublishMusicCommand	0	11
PublishMusicViaFacebook	2	25
RegisterUserCommand	2	29

Class Name	Number of Functions	Line Of Code
RemoveFavoriteMusic	2	28
RemoveMusicInListCommand	2	30
ResetMemberPasswordCommand	2	28
SearchMusicCommand	2	28
StoreMusicListCommand	2	29
Control		
MusicSysControl	11	233
Entity		
Artist	9	90
Database_connection	0	17
ErrorReport	15	138
FavouriteMusic	11	103
FollowArtistList	11	98
Member	22	186
Music	25	195
MusicPlayList	15	129
MusicPlaylistDetail	8	91
MusicType	9	88

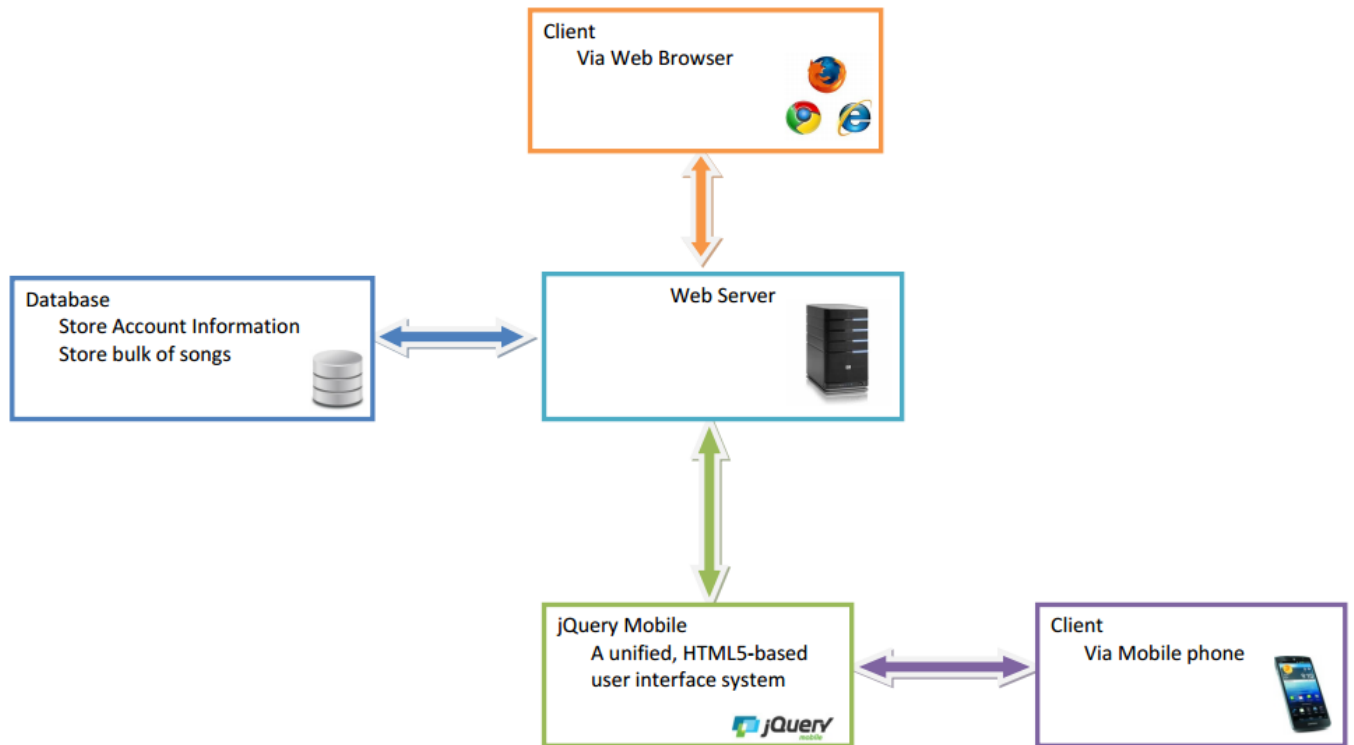
2 SYSTEM ARCHITECTURAL DESIGN

2.1 System Architecture



Our system is divided into **the Front End** and **the Back End**. The Front End provides an interface for our users to access our system. We are going to use JQuery Mobile with HTML5 to implement the user interface. There is a role called System Administrator who acts as a middle man between the Front End and the Back End. This actor is responsible for fixing the observed bugs, controlling the source of the songs and providing user support. The Back End mainly consists of a system database and a server. The system database is further split into two parts to store data, namely the Account Information and the Music Store. The server handles all the user requests such as user login, account management, favourite list editing and music playing, with assistance from the system database.

2.2 System Interface Description

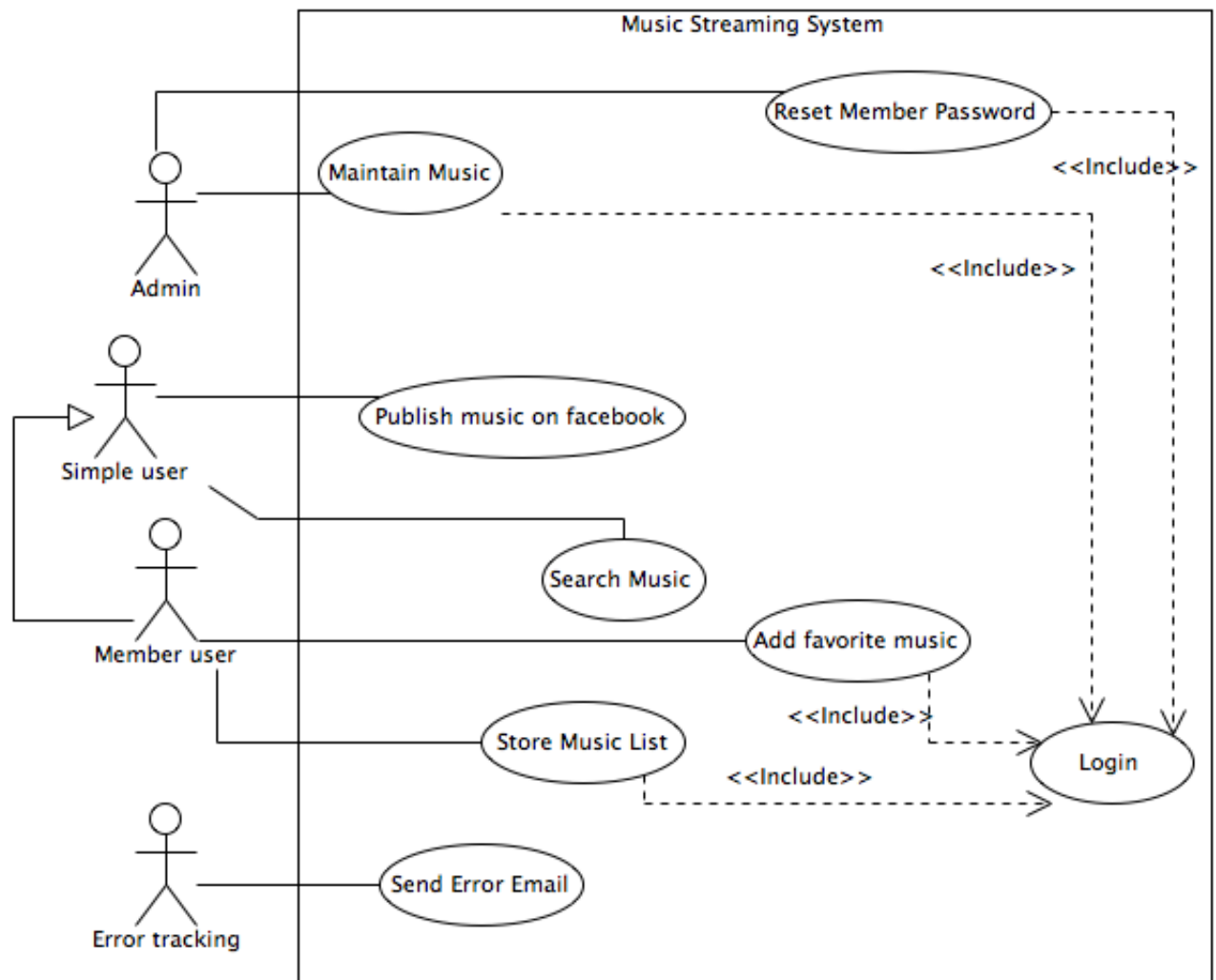


We are going to use **MVC model** to implement our system.

The Model layer refers to our database which stores the user data and song information. The **View layer** refers to the client side which users can access our system via various web browsers under different system platforms. HTML5 allows us to provide cross platform services to smart phone and desktop. **The Controller layer** refers to our web server. Our server is responsible for interacting with the users' action in view layer and coordinating with the model layer to obtain or update the data its data to response the user request accordingly.

3 DETAILED DESCRIPTION OF COMPONENTS

3.1 Use-Case Diagram



The proposed system provides some main function like “Login”, “Search music”, “Playlist Function” by different level of user. System also provides administrator tools like “Maintain Music”, “Reset Password” for normal maintenance. Error tracking system will send error email when it traces out any problems.

3.2 Use-Case Description

Use case name:	Login
Use case ID:	UC-050
Brief description:	Login to Music Streaming System
Flow of events:	Type in username by email Type in password
Postconditions:	Login the system
Alternative flows and exceptions:	If fail to login the system, redirect back to the login page with login unsuccessful error

Use case name:	Search Music
Use case ID:	UC-100
Primary actor:	Simple user
Secondary actor(s):	NA
Brief description:	Search music by name in the system
Preconditions:	NA
Flow of events:	1. Key in the search words in the search field 2. Response a list of music on page
Postconditions:	Search the music by keywords, and display a list of music on page
Alternative flows and exceptions:	At step 1, if the keyword is invalid to be search, invalid search keyword page. At step 2, if no result can be found, display result not found page.
Non-behavior requirements:	
Assumptions:	
Issue:	
Source:	

Use case name:	Publish Music on Facebook
Use case ID:	UC-200
Primary actor:	Simple user
Secondary actor(s):	NA
Brief description:	Publish Music on Facebook via Facebook merchant
Preconditions:	NA
Flow of events:	<ol style="list-style-type: none"> 1. Select a music by mouseover the music 2. A box of options is shown 3. Click Publish the music and login Facebook account
Postconditions:	The music is published on Facebook
Alternative flows and exceptions:	<ul style="list-style-type: none"> ● At step 3, if the login information is incorrect for the Facebook account, it require user to type in the information again. ● If the publishing process is failed, the system prompt user that the music cannot be publish to Facebook.
Non-behavior requirements:	
Assumptions:	
Issue:	
Source:	

Use case name:	Add Favorite Music
Use case ID:	UC-300
Primary actor:	Member user
Secondary actor(s):	NA
Brief description:	Add a favorite music from the music
Preconditions:	NA
Flow of events:	<ol style="list-style-type: none"> 1. Include (Login) 2. Select a music by mouseover the music 3. A box of options is shown 4. Click add music to favorite music
Postconditions:	Music is added into the favorite music list
Alternative flows and exceptions:	<ul style="list-style-type: none"> ● At step 4, If the favorite music is already in list, it still process the similar procedure, without prompting the user the music is already favorite music. But the record is still keeping the old one, with no new record inserted.
Non-behavior requirements:	
Assumptions:	
Issue:	
Source:	

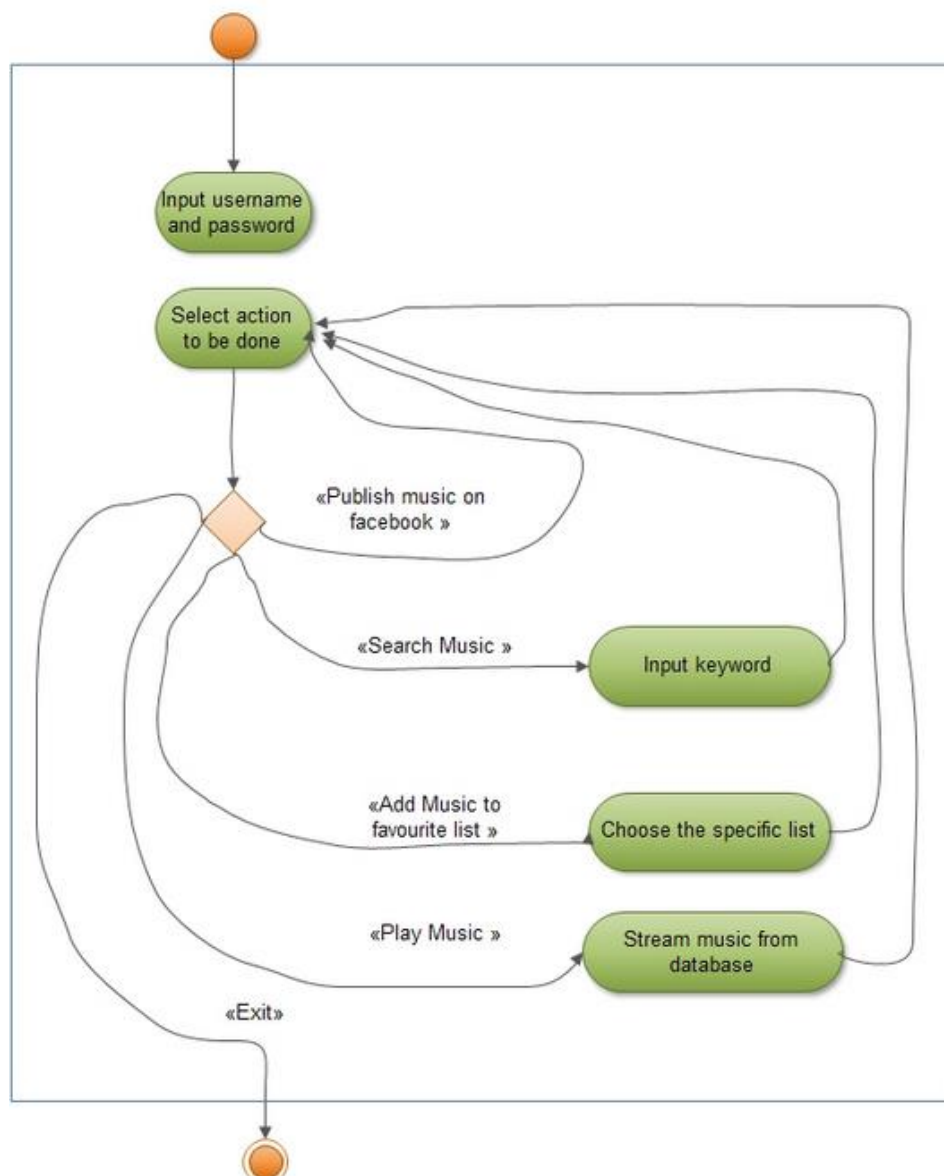
Use case name:	Store Music List
Use case ID:	UC-400
Primary actor:	Member user
Secondary actor(s):	NA
Brief description:	Store a new music list into user account
Preconditions:	NA
Flow of events:	<ol style="list-style-type: none"> 1. Include (Login) 2. Select save current music list 3. Server will loop over the list and store the music into database.
Postconditions:	A new music list is store into user account/ database
Alternative flows and exceptions:	<ul style="list-style-type: none"> ● At step 3, check if the list is new list or an old list. If new, it will loop over the music list, and store it into database. If old, it will update the list by deleting the old list, and update to this new one. Response user the list already stored into account.
Non-behavior requirements:	
Assumptions:	
Issue:	
Source:	

Use case name:	Maintain Music
Use case ID:	UC-500
Primary actor:	Admin
Secondary actor(s):	NA
Brief description:	Add, Edit, Delete the Music Database
Preconditions:	NA
Flow of events:	<ol style="list-style-type: none"> 1. Include (Login) 2. Select the music that needed to be maintained 3. Server will update the changes and response to user the updates.
Postconditions:	Update the music database.
Alternative flows and exceptions:	<ul style="list-style-type: none"> ● At step 3, if the update is invalid or cannot be done, the server response admin the change cannot be done.
Non-behavior requirements:	
Assumptions:	
Issue:	
Source:	

Use case name:	Reset Member Password
Use case ID:	UC-600
Primary actor:	Admin
Secondary actor(s):	NA
Brief description:	Reset member password with Member no
Preconditions:	NA
Flow of events:	<ol style="list-style-type: none"> 1. Include (Login) 2. Goes into the reset member password page and search a member to be reset by his member no 3. Server response a member and allow admin to reset his password by a click of button 4. Reset the password by a click on button 5. Prompt admin that the password is reset and can be used after 10mins.
Postconditions:	Reset a member password
Alternative flows and exceptions:	<ul style="list-style-type: none"> ● At step 2, If no member can be browsed, it redirects to a no member is selected page.
Non-behavior requirements:	
Assumptions:	
Issue:	
Source:	

Use case name:	Send Error Email
Use case ID:	UC-700
Primary actor:	Error Tracking
Secondary actor(s):	NA
Brief description:	Automatically scan if there is error occur at each mid-night and send error email to admin for further maintenance
Preconditions:	NA
Flow of events:	<ol style="list-style-type: none"> 1. Scan the error report database. If there are new record(s), send it to admin email. 2. Archive the record if the record is sent to admin.
Postconditions:	Error record sent to admin email for maintenance.
Alternative flows and exceptions:	NA
Non-behavior requirements:	
Assumptions:	
Issue:	
Source:	

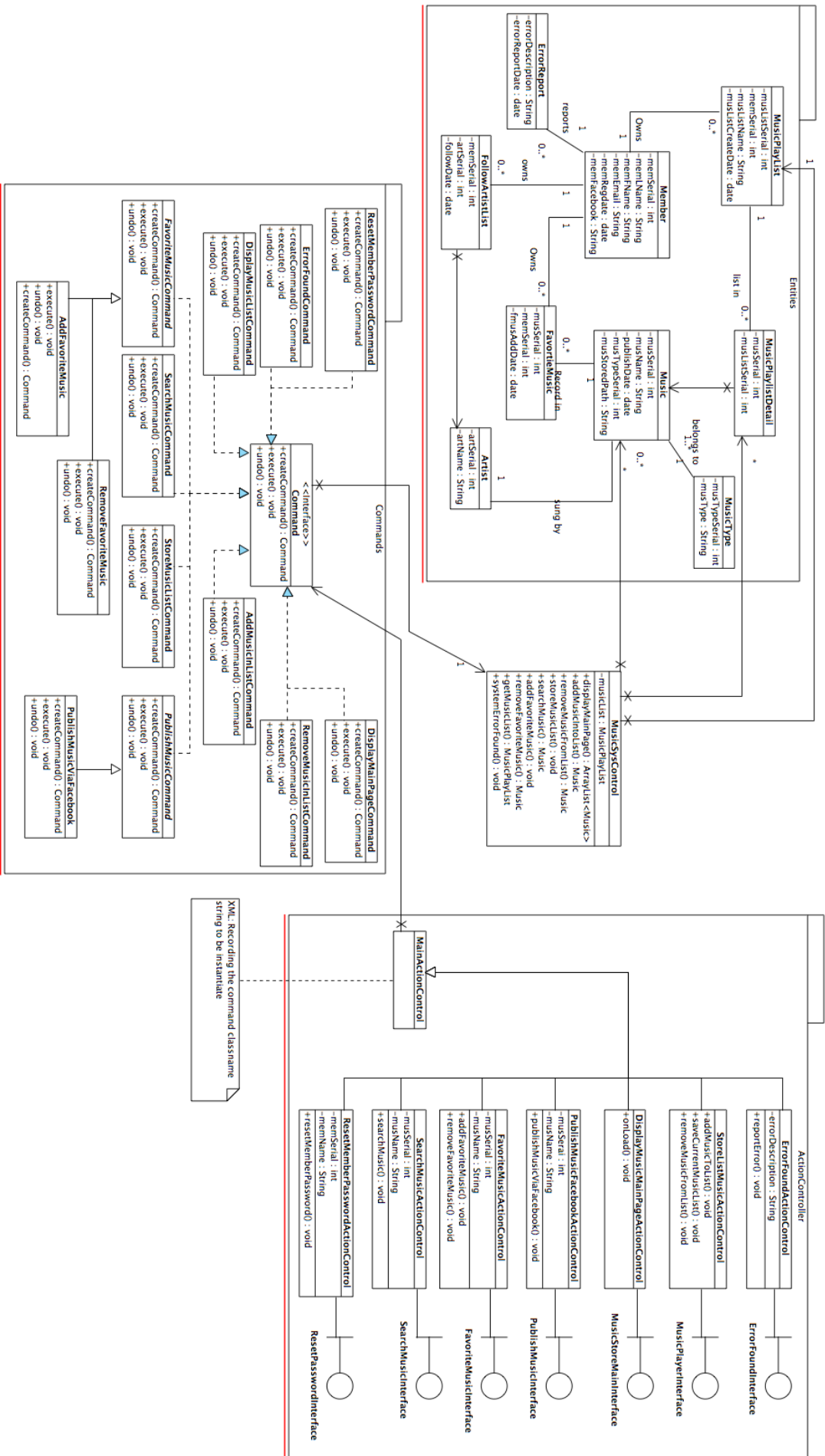
3.3 Activity Diagram



When user first using our system, user need to login to our system. We proposed to use Facebook O-Auth login for better security and comfortable experience. System will keep the login information in the database and transfer user to navigation page. User can search music, play music and add music into playlist. Controller will communication with database and send back the require information to user. User can also log off the system by clicking Exit.

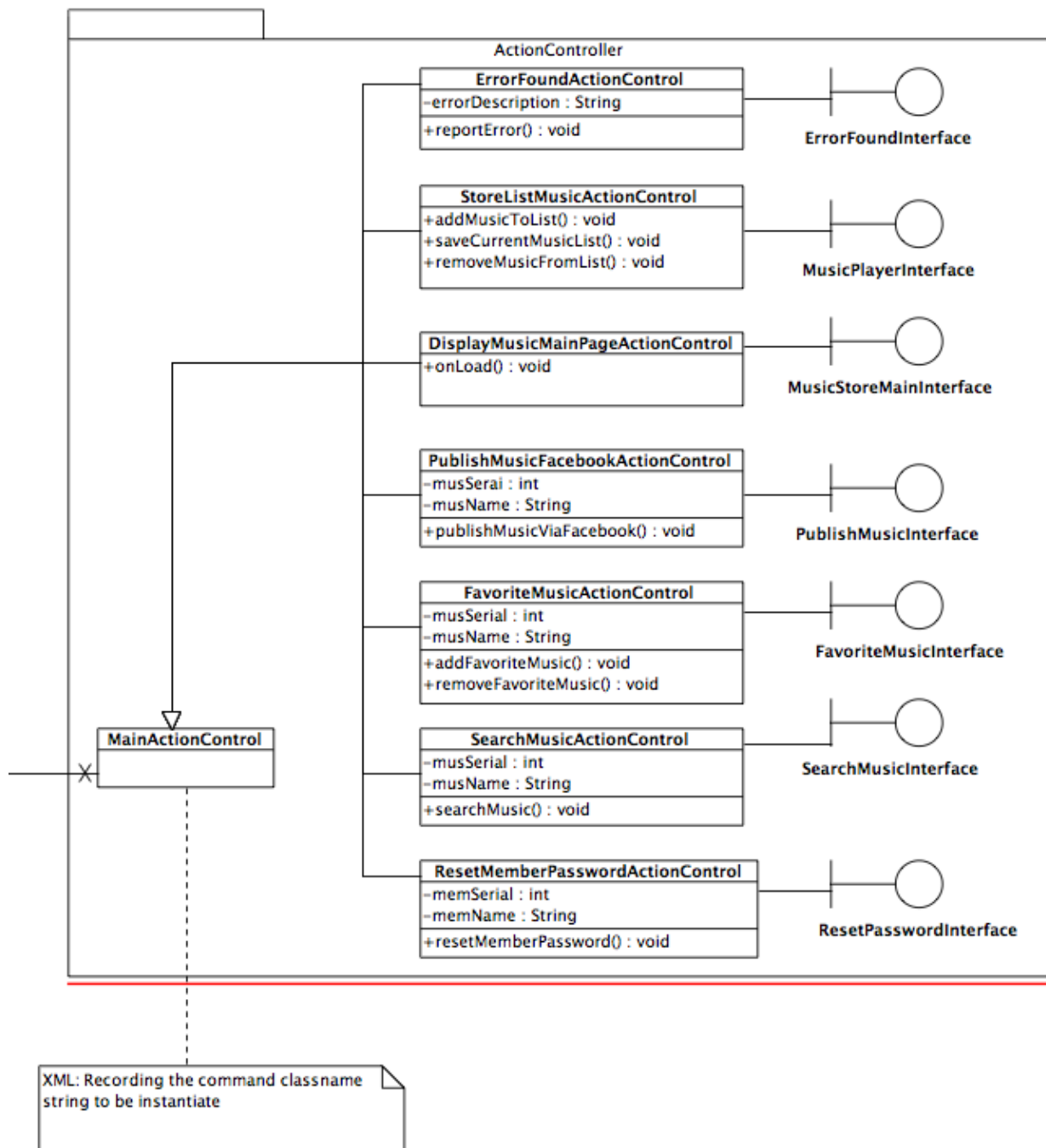
3.4 Class Diagram

3.4.1 Class diagram Overview

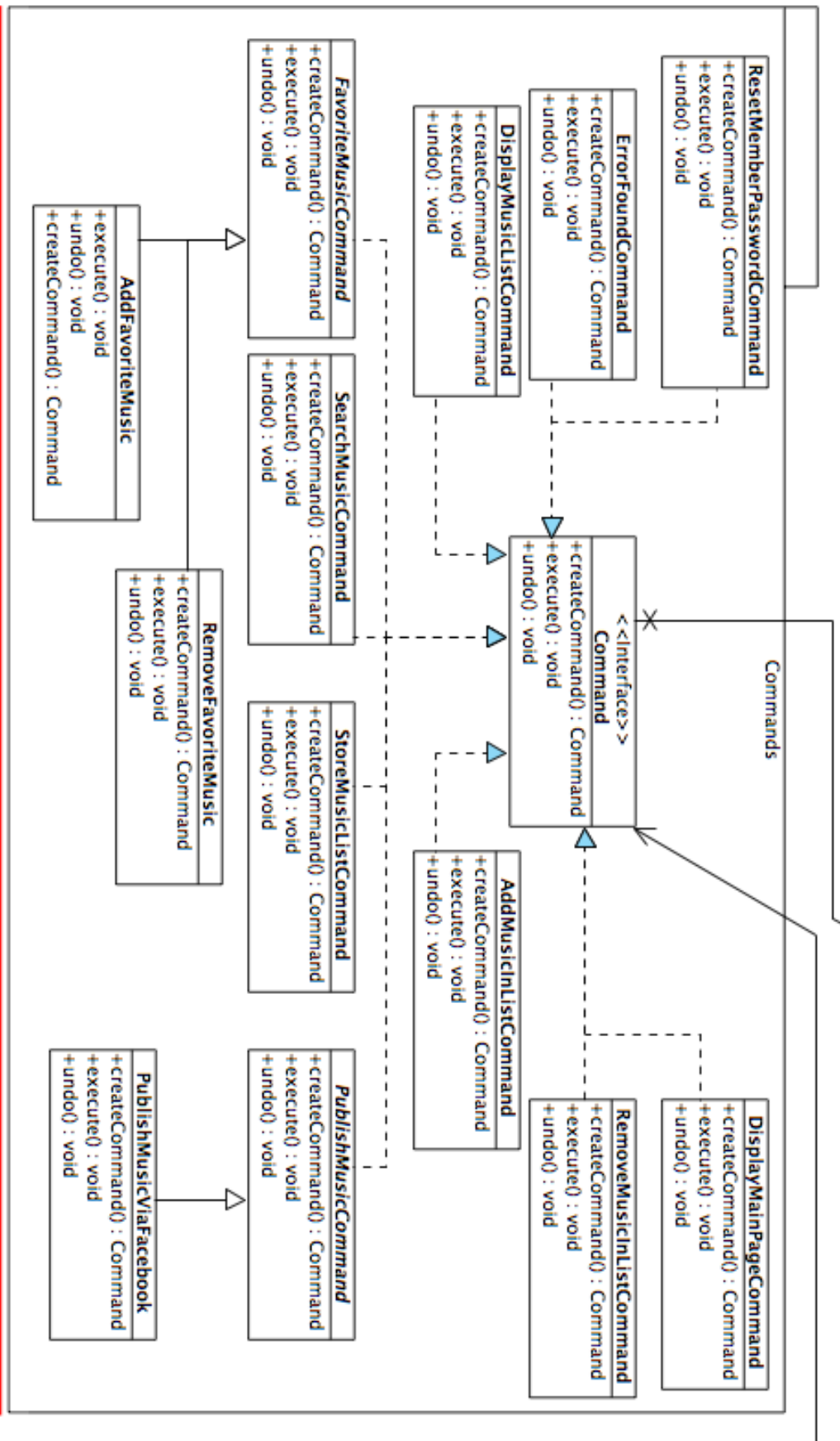


3.4.2 Enlarge View on Class Diagram

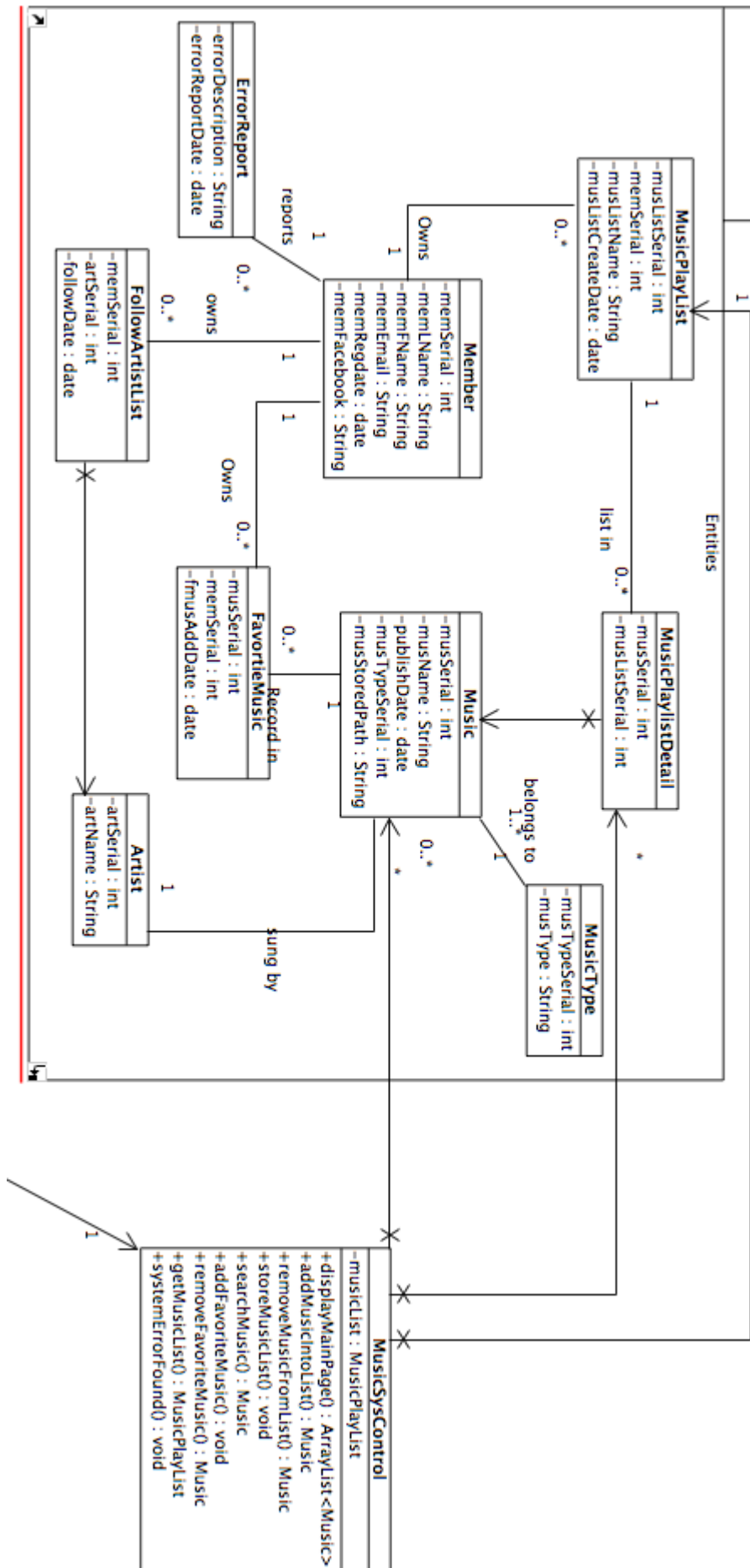
- ActionController Package



- Command Package

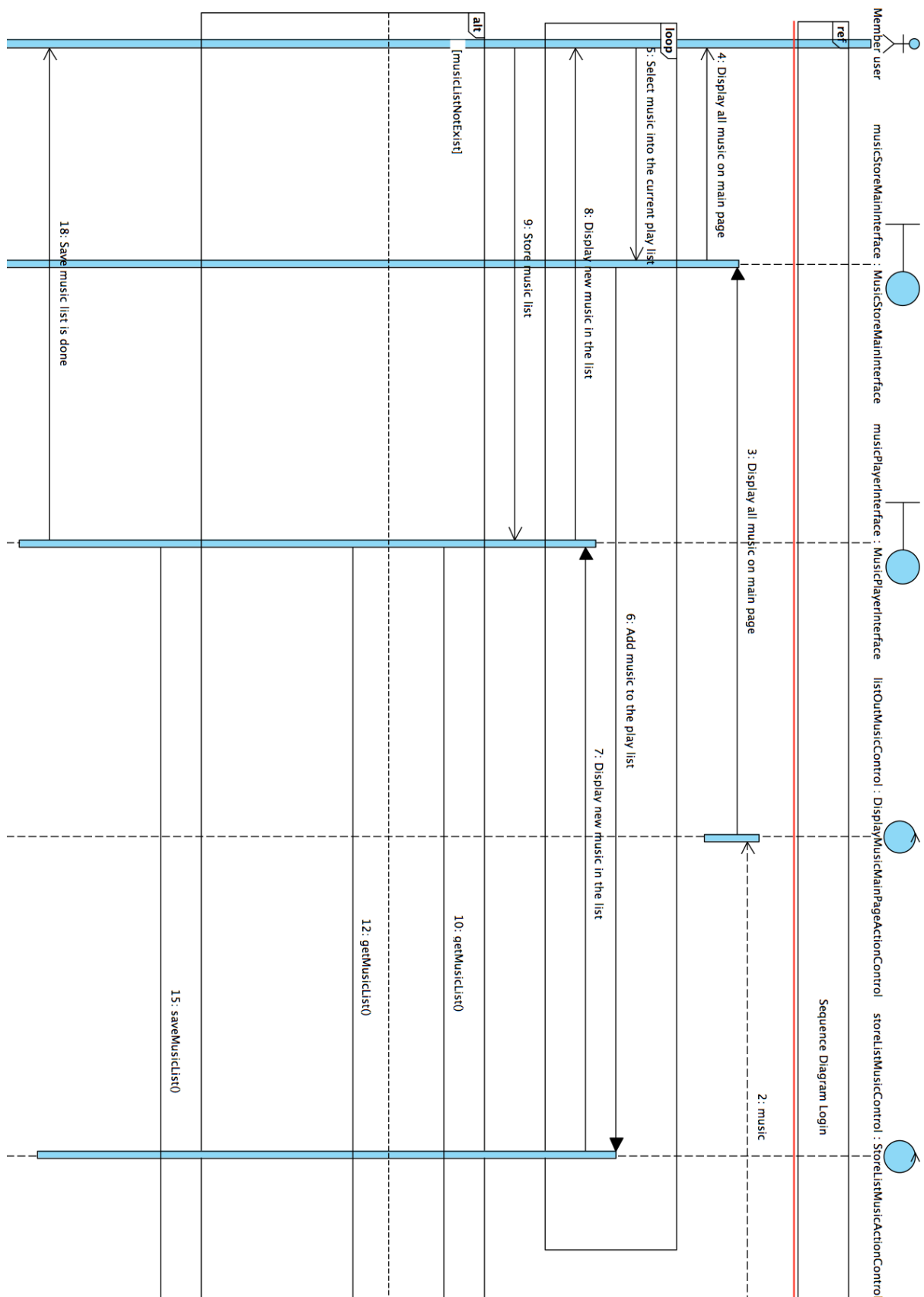


Entities and System Controller

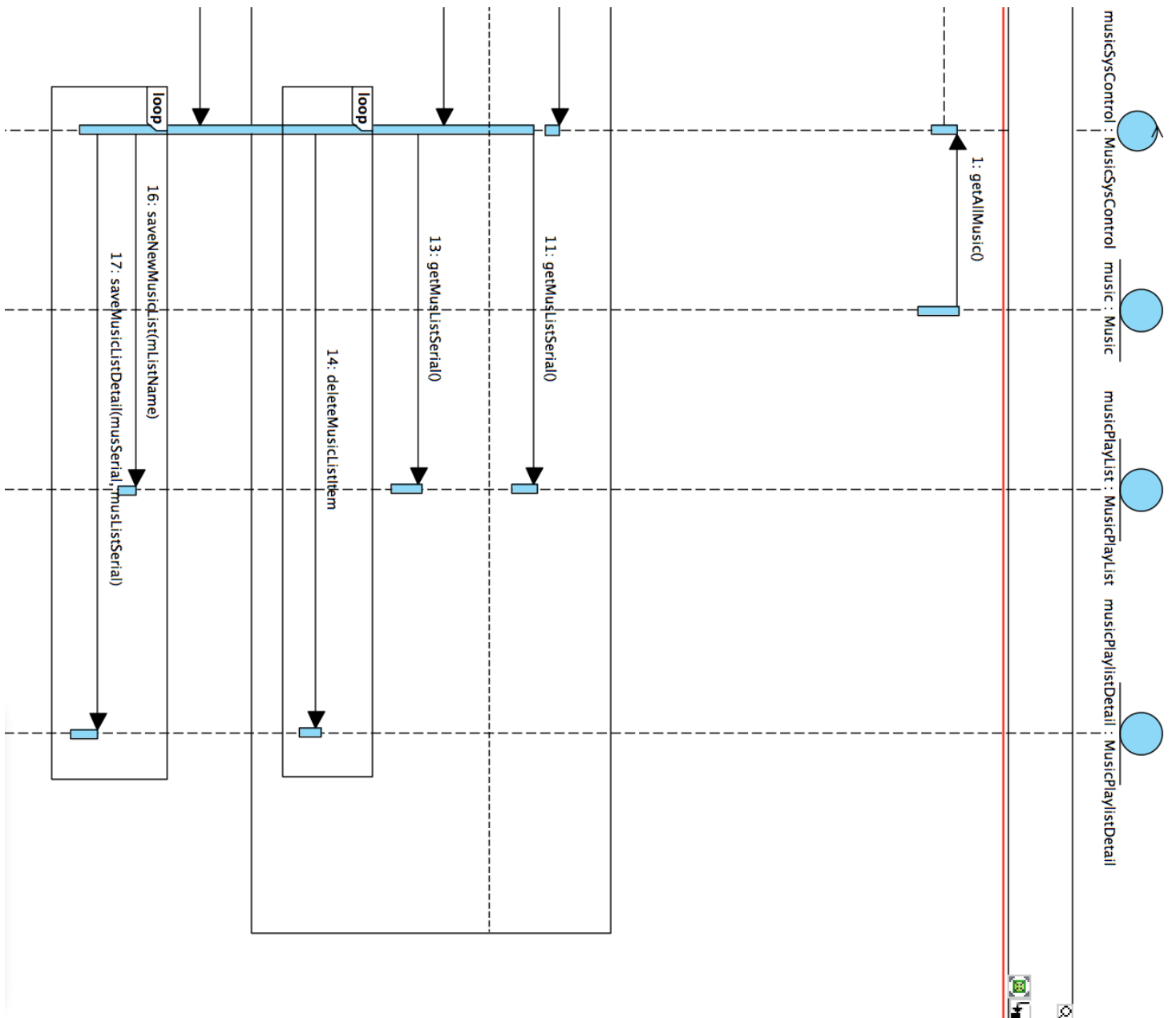


3.4.3 Sequence Diagrams

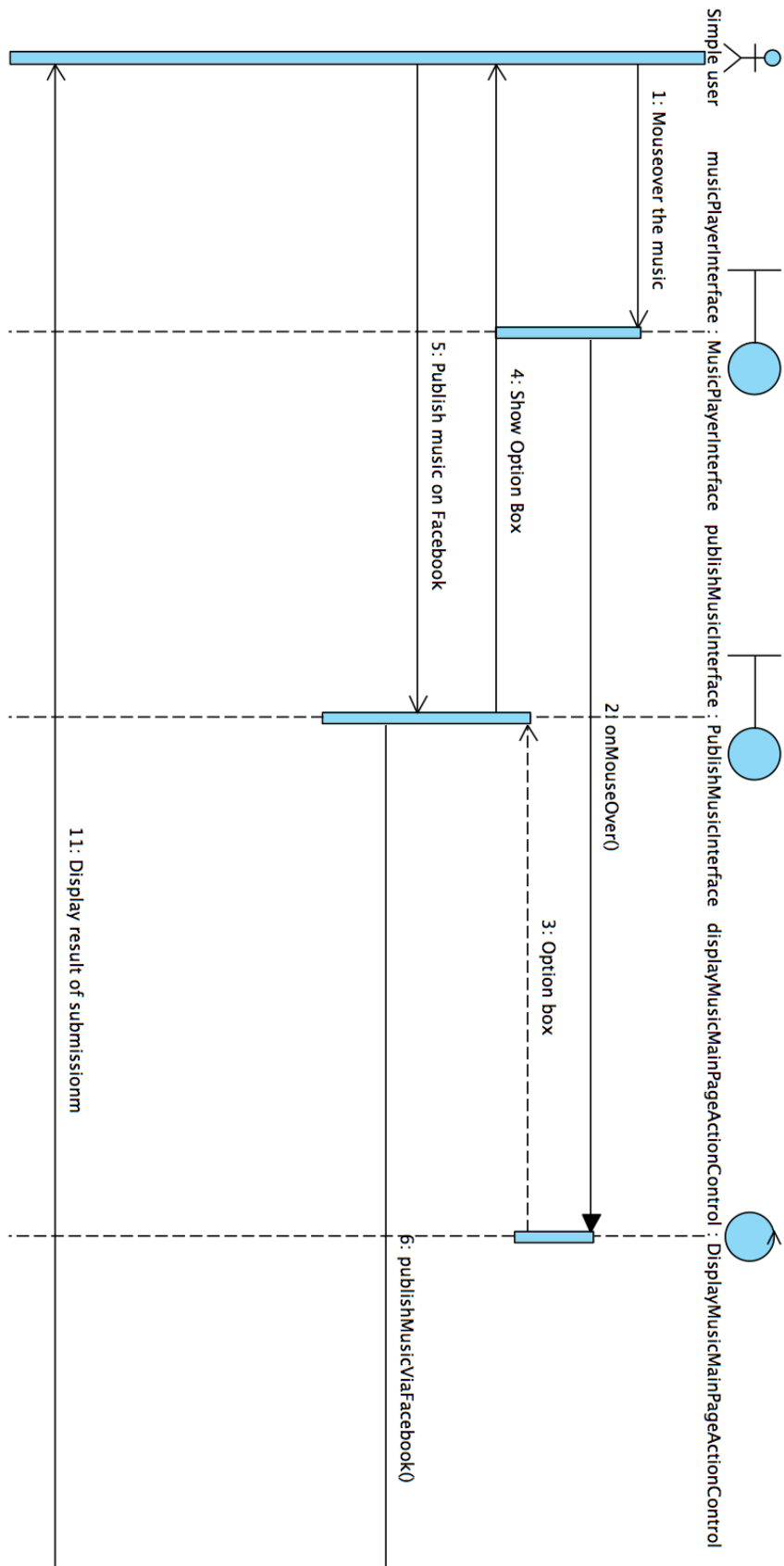
- Store Music1.1 (to be continued on next page)



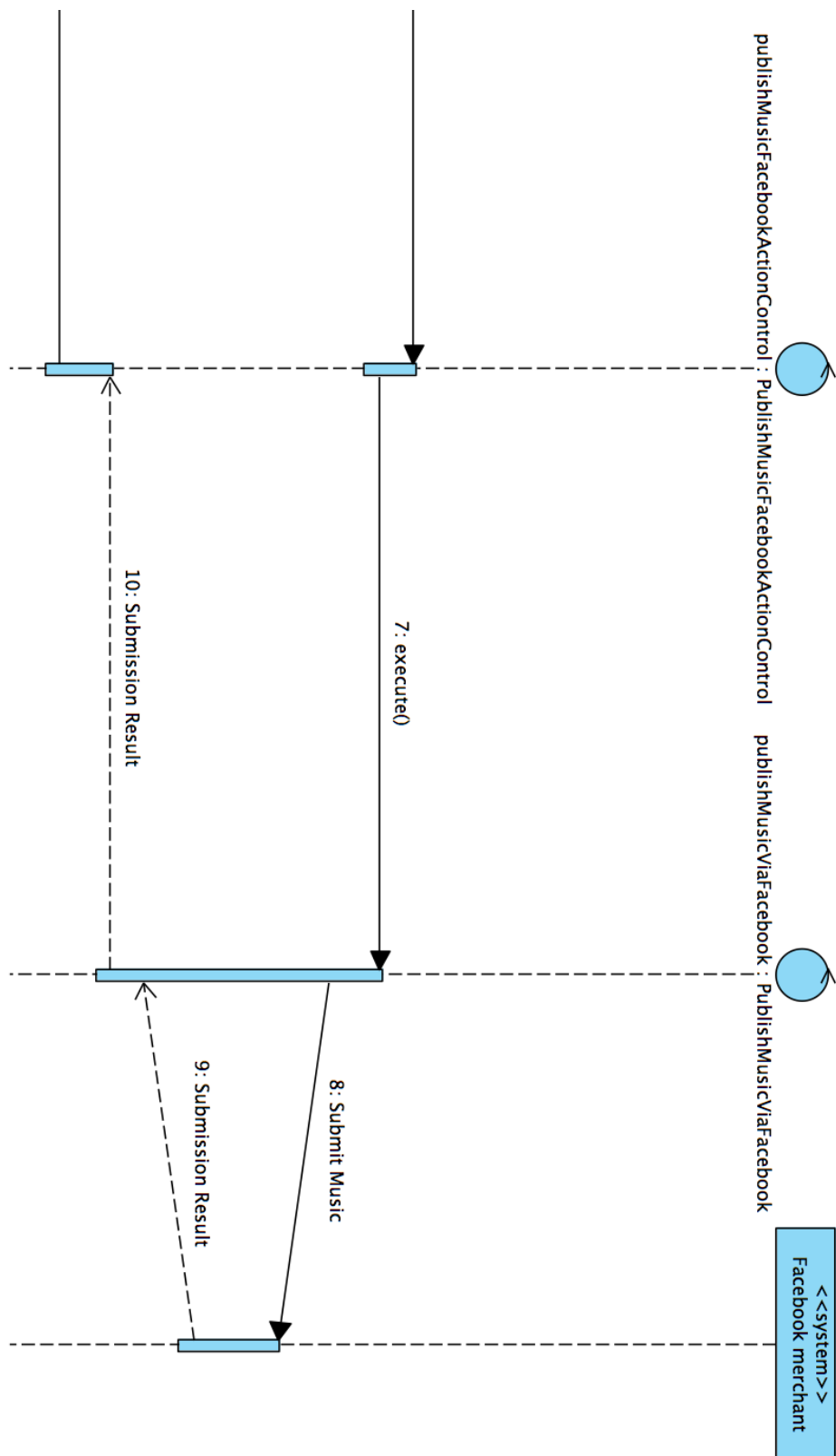
Store Music 1.2



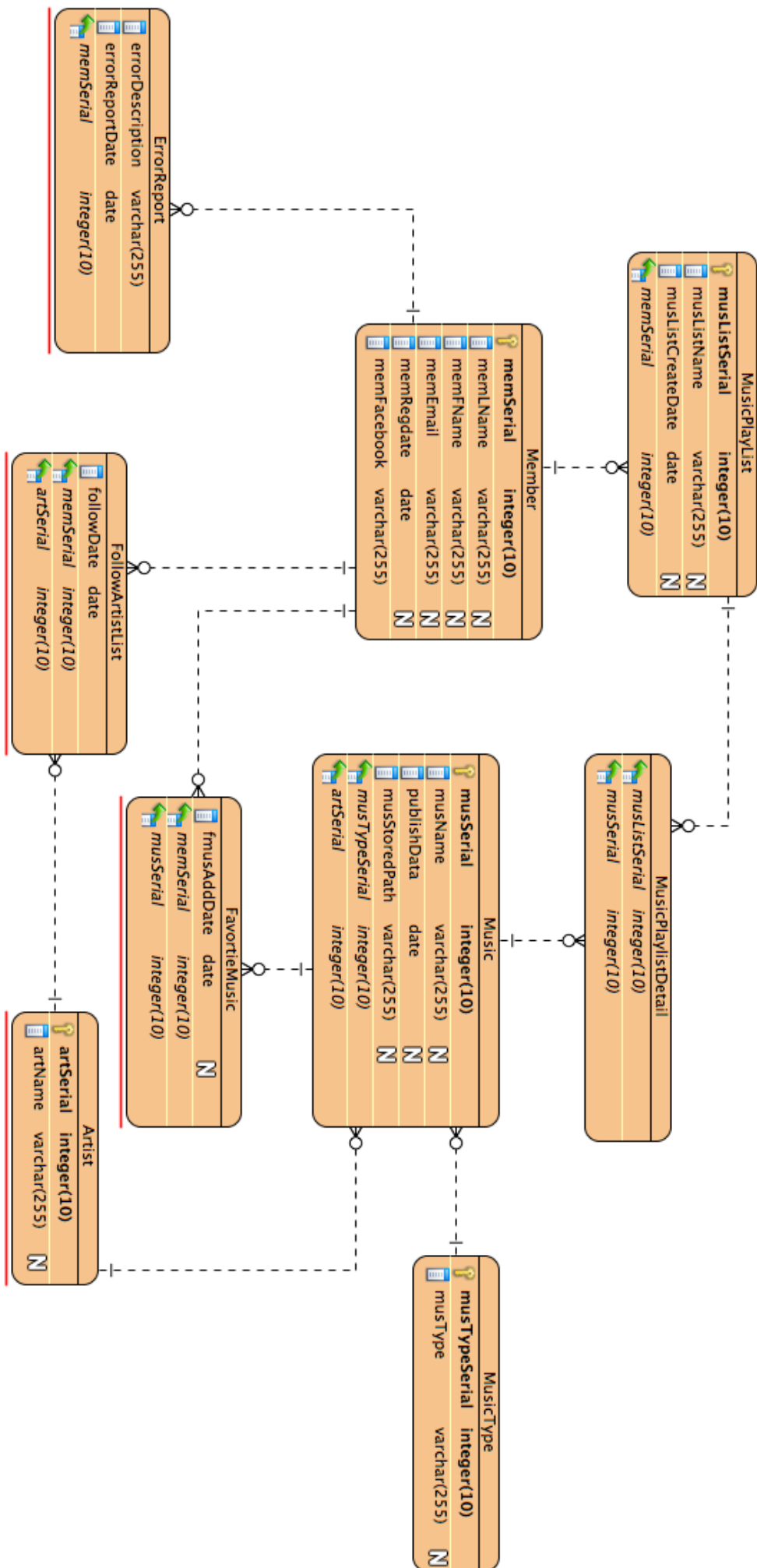
- Publish Music via Facebook 1.1 (to be continued on next page)



- Publish Music via Facebook 1.2



3.5 Entity Relationship Diagram



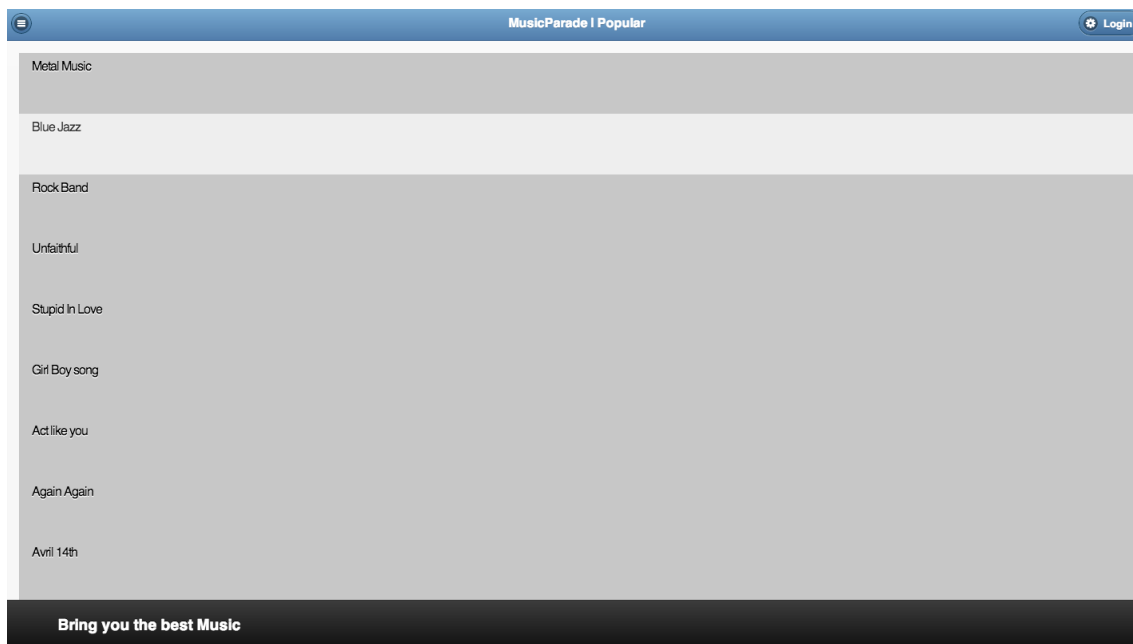
4 USER INTERFACE DESIGN

4.1 Description of the User Interface

We aim to provide a simple and standardized user interface. We have used jQuery Mobile as our user interface. User can use the same interface on different kind of devices such as desktop, iPad and mobile phone. Users can take up easily because the designed looks and feels are similar to applications in iOS.



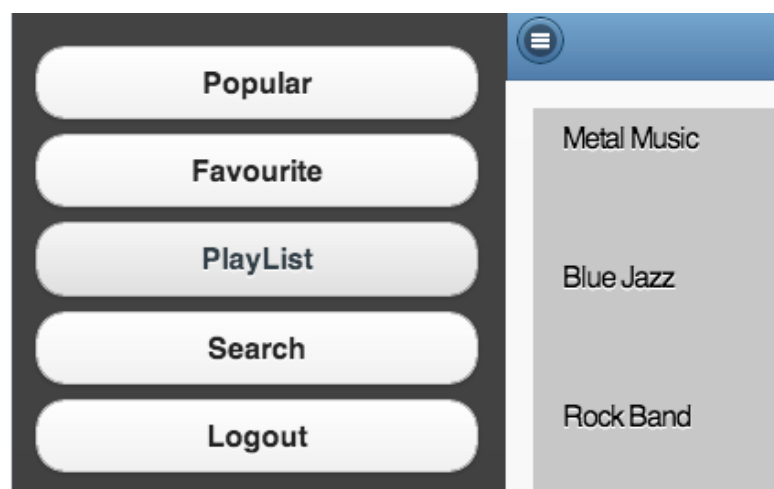
4.2 Screen Images



This is the main page design of Music Parade - Popular. In the Popular page, a list of all songs provided by Music Parade is represented. User can simply click the name of the song to enjoy the music.

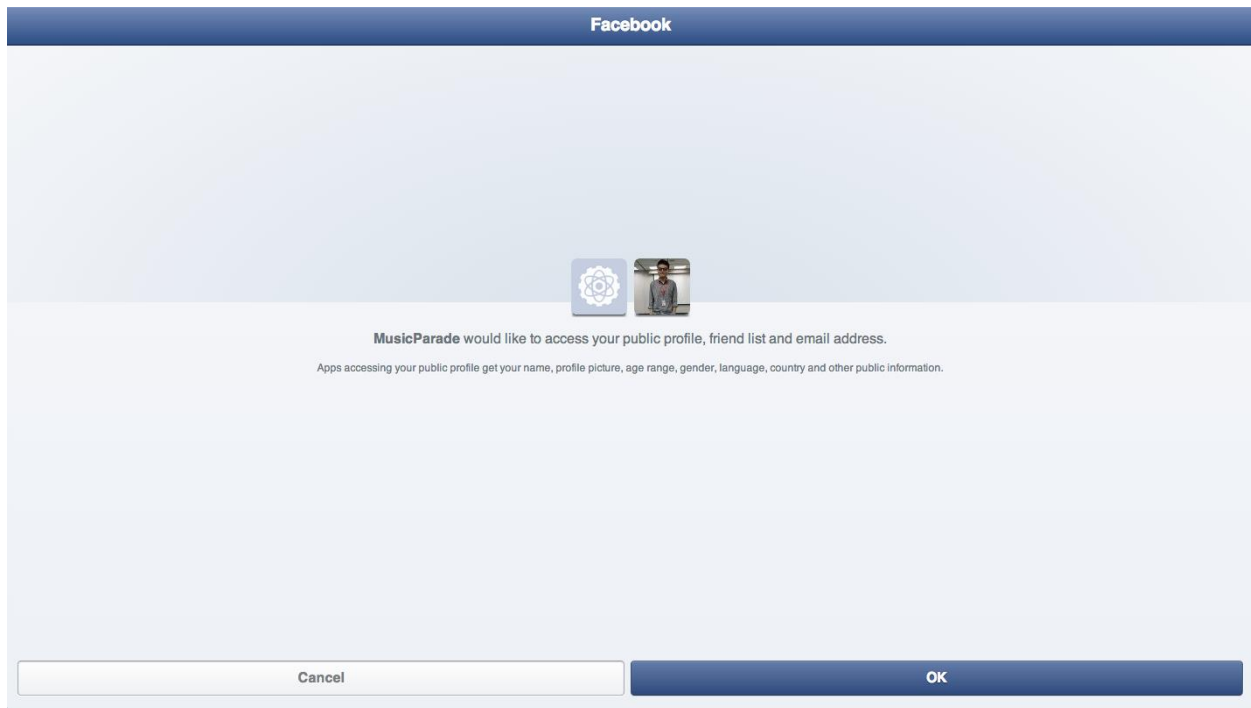


In the top of the middle, there are a name of our apps and also the name of subpage. For example, the above figure shows the user is now residing on the Favourite page, which is a list of favourite songs added by the user. User can easily know which page he or she is browsing. In the top left corner, there are buttons to show the sidebar. The sidebar contains the navigation link. User can navigate the page by pressing the button in the sidebar.





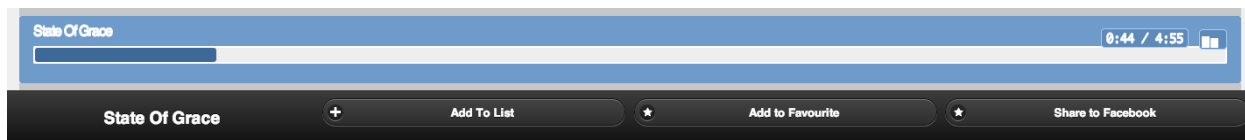
In the right top corner, there is a button. It will redirect the user to the Facebook authorize system for providing personal information to our system.



After user click OK, It will redirect back to our main page.

4.3 Objects and Actions

Play Song



In our design, we integrate playback function within the playlist. User can know which song is playing. User can slide the bar to listen the song from a specific timestamp. Song Time will be shown in right hand side. The next song will be played right after the current song finished playing. At the bottom, it is a dynamic footer. When the song is playing, it will display the song name. Also some actions can be performed by the user, such as “Add to List” and “Add to Favourite”.

Add to Favorite/Add to List

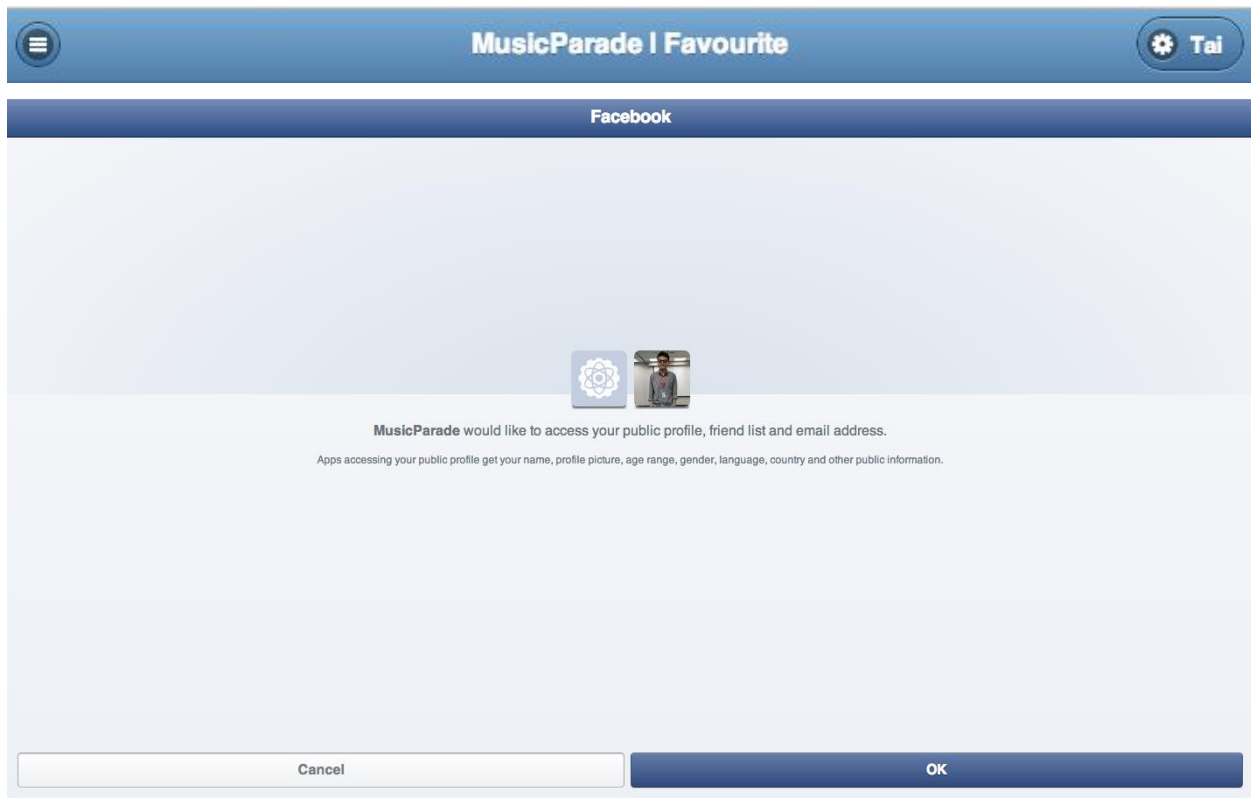
When user found that the song is very nice and would like to add it in to playlist or favorite. User can simply click “Add to List” and “Add to Favourite” button in the dynamic footer.

Share to Facebook



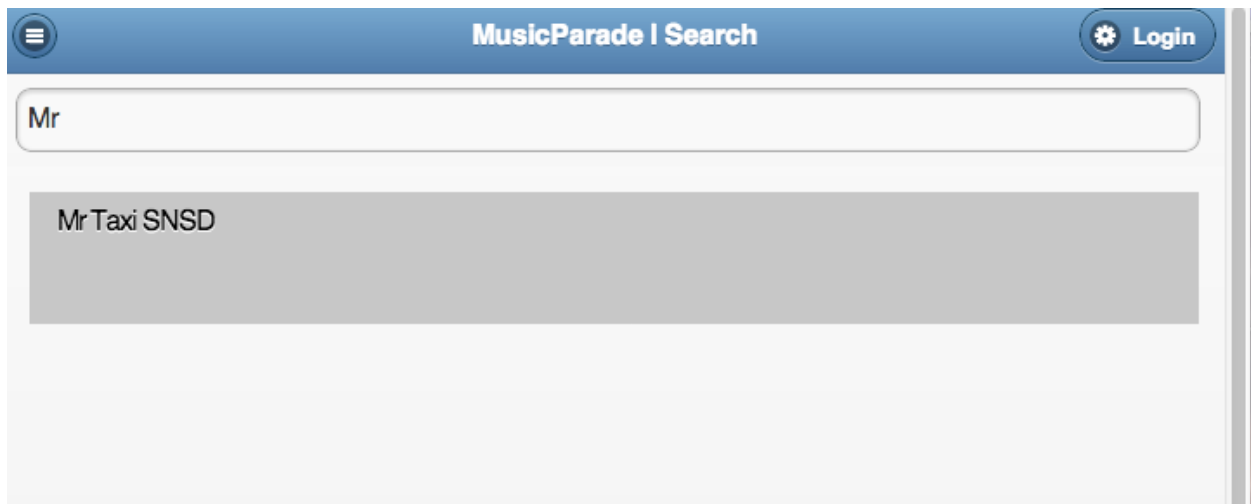
Also when user found that the song is nice and would like to share with friends. User can click the “Share to Facebook” button. It will redirect to Facebook sharing page with our website information. The status will be post in the users' timeline. After sharing, it will redirect back to the playlist page.

Login



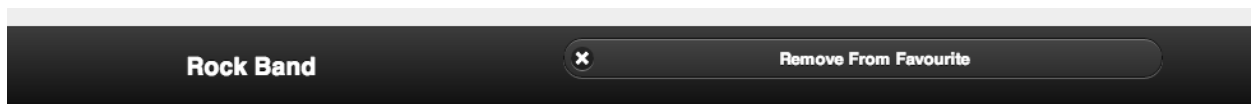
To use advance function like playlist, user need to login our system. User can click the "Login" button at the top right corner, it will redirect to Facebook authorize page and the user need to login to Facebook and click "OK" to authorize the related permissions to our system. After authorized, it will redirect back to our system.

Search



To use search function, user need to navigate to search page in sidebar navigation. User can simply type keywords in the textbox. System will search the song in the database and return the result immediately. User can listen to the song by clicking the song name.

Remove from list/favorite



When user found that the song in the list is not favourite anymore, user can click "remove" in the dynamic footer. The song will be removed from the list at once

5 TEST

5.1 Test Overview

Test Approach

We tested our system using various means under different environments so as to provide our users a smooth, easy and friendly using experience. Besides testing normal behaviors of our system, we also simulated many inappropriate inputs which users may unintentionally operate on our system to ensure the system's capability of handling those exceptional tasks.

Functions under Test

- ✓ Login Function
- ✓ Member Password Reset
- ✓ Popular (Default List of Songs)
- ✓ Music Playing
- ✓ Favourite List
- ✓ Playlist
- ✓ Music Sharing
- ✓ Music Searching
- ✓ Music Maintenance
- ✓ Error Reporting
- ✓ Performance
- ✓ User Friendliness


Testing Tools and Environments

We tested our system using the following web browsers in different operating systems:

Windows	Mac	Android	iOS
Chrome Firefox Safari	Safari Chrome	Chrome	Safari


5.2 Test cases

5.2.1 Login to Facebook

ID	T001
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Login to Facebook with correct ID & password
Function Testing	Login to Facebook
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click "Login" button on the top-right corner 3. Enter correct ID & password in the redirected Facebook Login Page 4. Click the "Login" button
Expected Result	Logon to Facebook & Redirect to "Popular" Page of Music Parade
Actual Result	Success
Remarks	

ID	T002
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Login to Facebook with correct ID but incorrect password
Function Testing	Login to Facebook
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click "Login" button on the top-right corner 3. Enter the correct ID but incorrect password in the redirected Facebook Login Page 4. Click the "Login" button
Expected Result	Incorrect password error popped up, do not redirect to "Popular" Page of Music Parade
Actual Result	Success

Remarks	
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ID	T003
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Login to Facebook with incorrect ID but correct password
Function Testing	Login to Facebook
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click "Login" button on the top-right corner 3. Enter the incorrect ID but correct password in the redirected Facebook Login Page 4. Click the "Login" button
Expected Result	Incorrect ID error popped up, do not redirect to "Popular" Page of Music Parade
Actual Result	Success
Remarks	

ID	T004
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Repeated Login to Facebook
Function Testing	Login to Facebook

Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click "Login" button on the top-right corner 3. Enter the correct ID & password in the redirected Facebook Login Page 4. Click the "Login" button 5. Wait for redirecting to "Popular" Page of Music Parade 6. Click "Login" button on the top-right corner again
Expected Result	Already Logon error popped up
Actual Result	Success
Remarks	

ID	T005
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Logout from Facebook
Function Testing	Login to Facebook
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click "Login" button on the top-right corner 3. Enter the correct ID & password in the redirected Facebook Login Page 4. Click the "Login" button 5. Wait for redirecting to "Popular" Page of Music Parade 6. Click "Logout" button in the option column at the left hand side
Expected Result	Logout from Facebook, top-right corner button become "Login" again
Actual Result	Success
Remarks	

5.2.2 Reset Member Password

ID	T024
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Reset password with numeric combination
Function Testing	Reset password(numeric)
Testing steps	1. Browse Music Parade page using web browser 2. Login by Facebook 3. Click "Change password" button 4. Enter the old password and new password(numeric) 5. Click change password
Expected Result	The changed is correctly made
Actual Result	Success
Remarks	

ID	T025
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Reset password with alphabet combination
Function Testing	Reset password(alphabet)
Testing steps	1. Browse Music Parade page using web browser 2. Login by Facebook 3. Click "Change password" button 4. Enter the old password and new password(alphabet) 5. Click change password
Expected Result	The changed is correctly made
Actual Result	Success
Remarks	

ID	T026
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Reset password with alphanumeric combination
Function Testing	Reset password(alphanumeric)
Testing steps	1. Browse Music Parade page using web browser 2. Login by Facebook 3. Click "Change password" button

	4. Enter the old password and new password(alphanumeric) 5. Click change password
Expected Result	The changed is correctly made
Actual Result	Success
Remarks	

ID	T027
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Avoid reset password with the same as the old password
Function Testing	Avoid meaningless changing of password
Testing steps	1. Browse Music Parade page using web browser 2. Login by Facebook 3. Click "Change password" button 4. Enter the old password and new password(same as the old password) 5. Click change password
Expected Result	Warning is popped
Actual Result	Success
Remarks	

ID	T028
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Avoid reset password with the length less than 8
Function Testing	Avoid too short password
Testing steps	1. Browse Music Parade page using web browser 2. Login by Facebook 3. Click "Change password" button 4. Enter the old password and new password(length less than 8) 5. Click change password
Expected Result	Warning is popped
Actual Result	Success
Remarks	

ID	T029
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Avoid user reset with weak password
Function Testing	Avoid too weak password
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Login by Facebook 3. Click "Change password" button 4. Enter the old password and new password(12345678) 5. Click change password
Expected Result	Warning is popped
Actual Result	Success
Remarks	

ID	T030
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Avoid user reset with weak password(II)
Function Testing	Avoid too weak password
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Login by Facebook 3. Click "Change password" button 4. Enter the old password and new password(abcdefghi) 5. Click change password
Expected Result	Warning is popped
Actual Result	Success
Remarks	

ID	T031
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Avoid reset password with the length longer than 16
Function Testing	Avoid too long password
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Login by Facebook

	3. Click "Change password" button 4. Enter the old password and new password(length longer than 16) 5. Click change password
Expected Result	Warning is popped
Actual Result	Success
Remarks	

ID	T032
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Avoid user reset with empty password
Function Testing	Avoid empty password
Testing steps	1. Browse Music Parade page using web browser 2. Login by Facebook 3. Click "Change password" button 4. Enter the old password and do not enter the new password 5. Click change password
Expected Result	Warning is popped
Actual Result	Success
Remarks	

5.2.3 Popular (Default List of Songs)

ID	T045
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Display top 10 songs
Function Testing	To browse the top 10 songs
Testing steps	1. Browse Music Parade page using web browser (Firefox) 2. Open the menu bar 3. Click popular button
Expected Result	Top 10 songs will displayed
Actual Result	Success
Remarks	

ID	T046
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Display top 10 songs(Group by language)
Function Testing	To browse the top 10 songs (Group by language)
Testing steps	1. Browse Music Parade page using web browser (Firefox) 2. Open the menu bar 3. Click popular button 4. Click (By language) button
Expected Result	Top 10 songs (Group by language) will displayed
Actual Result	Success
Remarks	

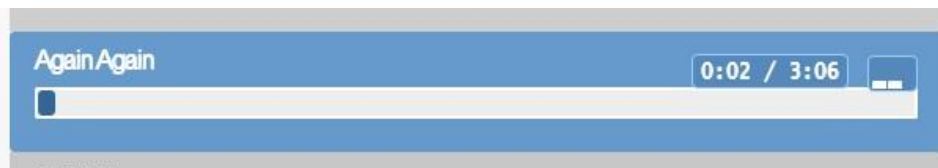
ID	T047
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Display top 10 songs(Group by Artist)
Function Testing	To browse the top 10 songs (Group by Artist)


Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser (Firefox) 2. Open the menu bar 3. Click popular button 4. Click (By Artist) button
Expected Result	Top 10 songs (Group by Artist) will displayed
Actual Result	Success
Remarks	

ID	T048
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Display top 10 songs(Group by music type)
Function Testing	To browse the top 10 songs (Group by music type)
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Open the menu bar 3. Click popular button 4. Click (By music type) button
Expected Result	Top 10 songs (Group by music type) will displayed
Actual Result	Success
Remarks	

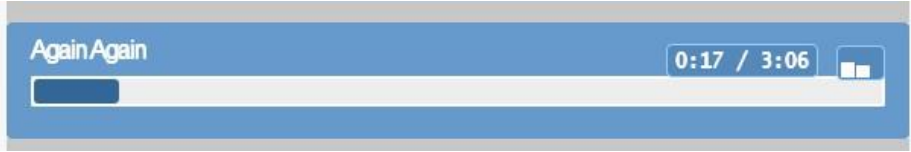

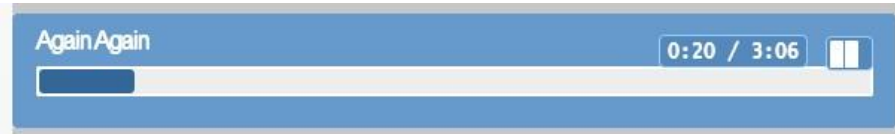
ID	T049
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Display top 10 songs(Group by month)
Function Testing	To browse the top 10 songs (Group by month)
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Open the menu bar 3. Click popular button 4. Click (By month) button
Expected Result	Top 10 songs (Group by month) will displayed
Actual Result	Success
Remarks	

5.2.4 Play Music

ID	T039
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Play a music chosen by the user
Function Testing	Play music
Testing steps	1. Browse Music Parade page using web browser (Firefox) 2. Choose a music to play
Expected Result	The music will start to play
Actual Result	Success 
Remarks	



ID	T040
Date	2012-04-23
Performed by	Yu Yau Choi
Description	pause the music which is playing
Function Testing	pause music
Testing steps	1. Browse Music Parade page using web browser (Firefox) 2. Choose a music to play 3. pause the music by clicking pause button
Expected Result	The music will pause
Actual Result	Success 
Remarks	


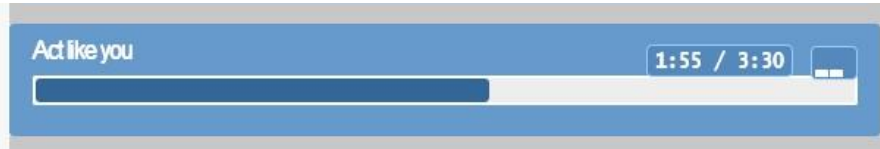
ID	T041
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Continues play the paused music
Function Testing	Continue play the music which is paused before
Testing steps	1. Browse Music Parade page using web browser (Firefox) 2. Choose a music to play 3. pause the music by clicking pause button

	4. clicking play button to continue play the music
Expected Result	The music will play from the last paused position
Actual Result	<p>Success</p>  <p>(1) The music is playing</p>  <p>(2) Pause the music</p>  <p>(3) Continue play the music</p>
Remarks	

ID	T042
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Close the webpage when playing music
Function Testing	Warming before the webpage is closed
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser (Firefox) 2. Choose a music to play 3. Close the webpage
Expected Result	The music must show a pop-up window before the webpage is closed
Actual Result	Success
Remarks	

ID	T043
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Play another music when a music is playing
Function Testing	Swap music
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser (Firefox) 2. Choose a music to play

	3. Choose another music to play
Expected Result	The previous playing music will stop to play and play the music selected by the user
Actual Result	<p>Success</p>  <p>(1) Again Again is playing</p>  <p>(2) Play another music called "Act like you"</p>
Remarks	

ID	T044
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Drag to specific position when the music is playing
Function Testing	Continue play the music which is paused before
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser (Firefox) 2. Choose a music to play 3. Drag to specific position on the bar
Expected Result	The music will continue play on the drag position
Actual Result	<p>Success</p>  <p>Drag to the 1:55 position</p> 
Remarks	

5.2.5 Operation on Favourite List

ID	T014
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Add a song to the "Favourite" list after login to Facebook
Function Testing	Operation on Favourite List
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click "Login" button on the top-right corner 3. Enter correct ID & password in the redirected Facebook Login Page 4. Click the "Login" button 5. Wait for redirecting to Music Parade 6. Click a song to listen 7. Click the "Add to Favourite" button 8. A confirmation dialog is popped up 9. Click "Yes"
Expected Result	The song just added is shown in the "Favourite" page
Actual Result	Success
Remarks	

ID	T015
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Add a song to the "Favourite" list before login to Facebook
Function Testing	Operation on Favourite List
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click a song to listen 3. Click the "Add to Favourite" button
Expected Result	The system will redirect to the Facebook Login page
Actual Result	Success
Remarks	

ID	T016
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Remove a song in the "Favourite" list after login to

	Facebook
Function Testing	Operation on Favourite List
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click "Login" button on the top-right corner 3. Enter correct ID & password in the redirected Facebook Login Page 4. Click the "Login" button 5. Wait for redirecting to Music Parade 6. Click a song to listen 7. Click the "Add to Favourite" button 8. A confirmation dialog is popped up 9. Click "Yes" 10. Click the "Favourite" button in the option column at the left hand side 11. Select a song and click the "Remove from Favourite" button
Expected Result	The song is disappeared in the "Favourite" list
Actual Result	Success
Remarks	

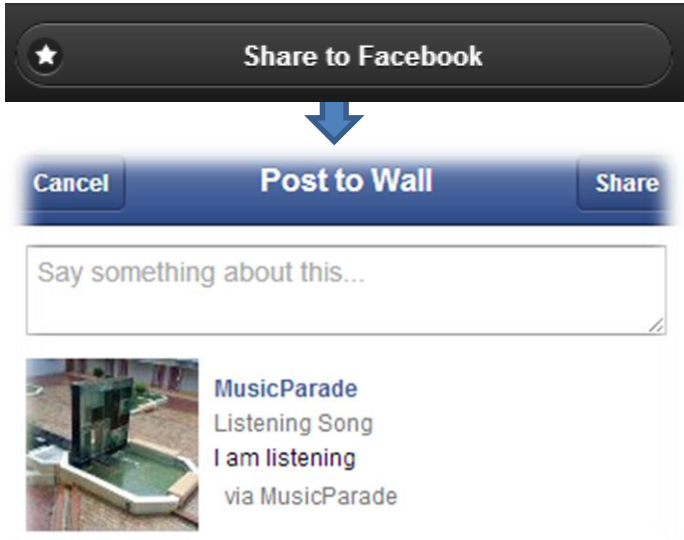
5.2.6 Operation on Playlist

ID	T017
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Add a song to a self-created playlist after login to Facebook
Function Testing	Operation on Playlist
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click "Login" button on the top-right corner 3. Enter correct ID & password in the redirected Facebook Login Page 4. Click the "Login" button 5. Wait for redirecting to Music Parade 6. Click a song to listen 7. Click the "Add to List" button 8. A dialog showing the previously created playlists and a "Create Playlist" button is popped up 9. Click the "Create Playlist" button 10. Enter a name for the newly created playlist in the popped up dialog 11. Click the "OK" button
Expected Result	The song just added is shown in the newly created playlist under the "Playlist" page
Actual Result	Success
Remarks	

ID	T018
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Add a song to a previously created playlist before login to Facebook
Function Testing	Operation on Playlist
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click a song to listen 3. Click the "Add to List" button
Expected Result	The system will redirect to the Facebook Login page
Actual Result	Success
Remarks	

ID	T019
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Remove a song in the previously created playlist after login to Facebook
Function Testing	Operation on Playlist
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click "Login" button on the top-right corner 3. Enter correct ID & password in the redirected Facebook Login Page 4. Click the "Login" button 5. Wait for redirecting to Music Parade 6. Click the "Playlist" button in the option column at the left hand side 7. Select a previously created playlist 8. Select a song and click the "Remove from List" button
Expected Result	The song is disappeared in the selected playlist
Actual Result	Success
Remarks	

5.2.7 Share Music on Facebook

ID	T006
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Share your feeling, opinion or everything to Facebook when you are listening a song
Function Testing	Share Music on Facebook
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click a song to listen 3. Click the "Share to Facebook" button 4. Wait for redirecting to "Post to Wall" Page 5. Enter the content you would like to share 6. Click the "Share" button
Expected Result	Your content will be shared to Facebook, and the system will redirect you back to Music Parade
Actual Result	Success
Remarks	

ID	T007
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Cancelling sharing to Facebook at the last step
Function Testing	Share Music on Facebook
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click a song to listen 3. Click the "Share to Facebook" button 4. Wait for redirecting to "Post to Wall" Page 5. Enter the content you would like to share

	6. Click the "Cancel" button
Expected Result	Your content will NOT be shared to Facebook, and the system will redirect you back to Music Parade
Actual Result	Success
Remarks	

ID	T008
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Sharing nothing to Facebook
Function Testing	Share Music on Facebook
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click a song to listen 3. Click the "Share to Facebook" button 4. Wait for redirecting to "Post to Wall" Page 5. Enter nothing 6. Click the "Share" button
Expected Result	"Empty Content" Error popped up
Actual Result	Success
Remarks	

5.2.8 Search Music

ID	T009
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Enter one keyword to search a song (positive result)
Function Testing	Search Music
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click the "Search" button in the option column at the left hand side 3. Wait for redirecting to "Search" Page 4. Enter a song name which exists in the database in the "Search Bar"
Expected Result	The specific song is shown under the "Search Bar"
Actual Result	Success
Remarks	

ID	T010
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Enter one keyword to search a song (negative result)
Function Testing	Search Music
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click the "Search" button in the option column at the left hand side 3. Wait for redirecting to "Search" Page 4. Enter a song name which does not exist in the database in the "Search Bar"
Expected Result	Nothing is shown under the "Search Bar"
Actual Result	Success
Remarks	

ID	T011
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Enter multiple keyword to search a song (positive result)
Function Testing	Search Music

Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click the "Search" button in the option column at the left hand side 3. Wait for redirecting to "Search" Page 4. Enter two song names separated by space which exist in the database in the "Search Bar"
Expected Result	The two specific songs are shown under the "Search Bar"
Actual Result	Success
Remarks	

ID	T012
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Enter multiple keyword to search a song (negative result)
Function Testing	Search Music
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click the "Search" button in the option column at the left hand side 3. Wait for redirecting to "Search" Page 4. Enter two song names separated by space which do not exist in the database in the "Search Bar"
Expected Result	Nothing is shown under the "Search Bar"
Actual Result	Success
Remarks	

ID	T013
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Enter multiple keyword to search a song (one positive result & one negative result)
Function Testing	Search Music
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Click the "Search" button in the option column at the left hand side 3. Wait for redirecting to "Search" Page 4. Enter one song name which exists in the database, a space, and then a song name which does not exist in the database in the

	"Search Bar"
Expected Result	Only the first song is shown under the "Search Bar"
Actual Result	Success
Remarks	

5.2.9 Music Maintenance

ID	T020
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Add a song to the Popular page in Music Parade
Function Testing	Music Maintenance
Testing steps	<ol style="list-style-type: none"> 1. Open the "FileZilla" software, login to our music file server 2. Upload a music file (mp3) onto the server 3. Copy the URL of the uploaded music file 4. Browser our Music Parade Database interface using web browser 5. Select the "Popular" music list table 6. Insert a new item into the table 7. Paste the copied URL in the "URL" attribute & enter the song name of the music file in the "SongName" attribute 8. Click the "Go" button to save 9. Browse Music Parade page using web browser 10. Click the "Search" button in the option column at the left hand side 11. Wait for redirecting to "Search" Page 12. Enter the new song name which just added into the database
Expected Result	The newly added song is shown under the "Search Bar"
Actual Result	Success
Remarks	

ID	T021
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Edit the name of a song under the Popular page in Music Parade
Function Testing	Music Maintenance
Testing steps	<ol style="list-style-type: none"> 1. Browser our Music Parade Database interface using web browser 2. Select the "Popular" music list table 3. Select the to be edited item in the table 4. Edit the song name in the "SongName" attribute

	<ol style="list-style-type: none"> 5. Click the "Go" button to save 6. Browse Music Parade page using web browser 7. Click the "Search" button in the option column at the left hand side 8. Wait for redirecting to "Search" Page 9. Enter the new song name which just been edited in the database
Expected Result	The song with a newly edited song name is shown under the "Search Bar"
Actual Result	Success
Remarks	

ID	T022
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Delete a song in the Music Parade Database but remain the corresponding music file on the server
Function Testing	Music Maintenance
Testing steps	<ol style="list-style-type: none"> 1. Browser our Music Parade Database interface using web browser 2. Select the "Popular" music list table 3. Delete a specific item (representing a song) in the table 4. Click the "Go" button to save 5. Browse Music Parade page using web browser 6. Click the "Search" button in the option column at the left hand side 7. Wait for redirecting to "Search" Page 8. Enter the song name which just been deleted in the database
Expected Result	Nothing is shown under the "Search Bar"
Actual Result	Success
Remarks	

ID	T023
Date	2012-04-23
Performed by	Ho Yuen Tong
Description	Delete a song in the Music Parade Database and delete the corresponding music file on the server
Function Testing	Music Maintenance

Testing steps	<ol style="list-style-type: none"> 1. Open the "FileZilla" software, login to our music file server 2. Select a music file and delete it 3. Browse our Music Parade Database interface using web browser 4. Select the "Popular" music list table 5. Delete the item which corresponding to the just deleted music file on the server in the table 6. Click the "Go" button to save 7. Browse Music Parade page using web browser 8. Click the "Search" button in the option column at the left hand side 9. Wait for redirecting to "Search" Page 10. Enter the song name which just been deleted in the database
Expected Result	Nothing is shown under the "Search Bar"
Actual Result	Success
Remarks	

5.2.10 Send Error Email

ID	T033
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Send error report to administrator of Music Parade via email
Function Testing	Error reporting
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Login by Facebook 3. Click "Report error" button 4. Input the details of the error 5. Input the verification code 6. Click submit button
Expected Result	Receive acknowledgement
Actual Result	Success
Remarks	

ID	T034
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Avoid empty error report
Function Testing	Checking of the content of the error report
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Login by Facebook 3. Click "Report error" button 4. Do not input anything 5. Input the verification code 6. Click submit button
Expected Result	Warning is popped
Actual Result	Success
Remarks	

ID	T035
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Avoid malice error report
Function Testing	Verification code function

Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Login by Facebook 3. Click "Report error" button 4. Input details of the error 5. Input the wrong verification code 6. Click submit button
Expected Result	Warning is popped
Actual Result	Success
Remarks	

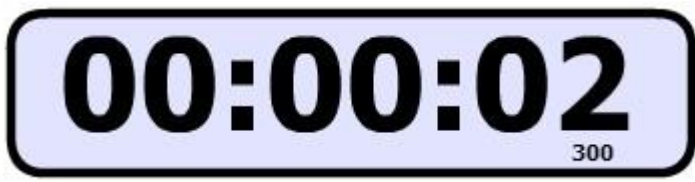
ID	T036
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Auto reply when received an error report
Function Testing	Auto reply function
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Login by Facebook 3. Click "Report error" button 4. Input details of the error 5. Input the verification code 6. Click submit button 7. Check the email box
Expected Result	An auto-reply from Music Parade is received
Actual Result	Success
Remarks	

ID	T037
Date	2012-04-23
Performed by	Yu Yau Choi
Description	Identity verification before sending error report
Function Testing	Identity verification function
Testing steps	<ol style="list-style-type: none"> 1. Browse Music Parade page using web browser 2. Do not login 3. Click "Report error" button
Expected Result	Redirecting to the login page
Actual Result	Success
Remarks	


ID	T038
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Date	2012-04-23
Performed by	Yu Yau Choi
Description	Encourage user to read the FAQ before they send the error report
Function Testing	FAQ function
Testing steps	1. Browse Music Parade page using web browser 2. Login by Facebook 3. Click "Report error" button
Expected Result	FAQ is popped
Actual Result	Success
Remarks	

5.2.11 Performance

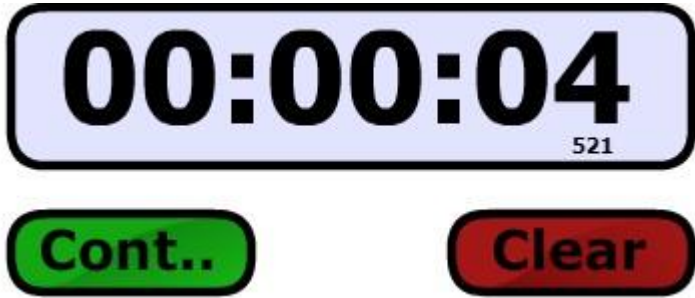
ID	T050
Date	2012-04-23
Performed by	Yu Yau Choi
Description	To test whether the streaming speed is fast enough or not Environment: Desktop , LAN Connection 100Mbps
Function Testing	Performance - Streaming speed (2)
Testing steps	<ol style="list-style-type: none"> 1. Go to http://speedtest.net/ to ensure the speed is around 99Mbps-100Mbps 2. Browse Music Parade page using web browser (Firefox) 3. Open the menu bar 4. Play a music (Size: 4.3MB) by click the music name 5. Wait until the music is end
Expected Result	Total waiting time should not be longer than 15 second
Actual Result	Total waiting time is 2 second 
Remarks	

ID	T051
Date	2012-04-23
Performed by	Yu Yau Choi
Description	To test whether the streaming speed is fast enough or not Environment: Desktop , WIFI Connection 40Mbps
Function Testing	Performance - Streaming speed (1)
Testing steps	<ol style="list-style-type: none"> 1. Go to http://speedtest.net/ to ensure the speed is around 39Mbps-40Mbps 2. Browse Music Parade page using web browser (Firefox) 3. Open the menu bar 4. Play a music (Size: 4.3MB) by click the music name

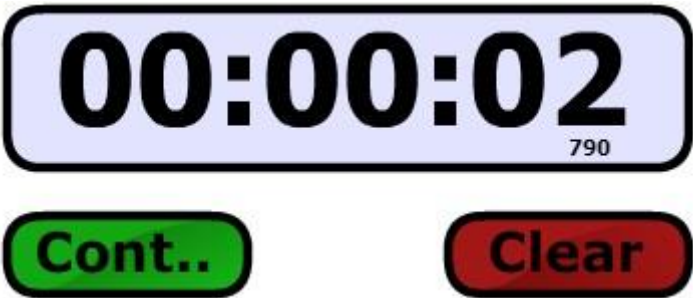
	5. Wait until the music is end
Expected Result	Total waiting time should not be longer than 15 second
Actual Result	Total waiting time is 3.5 second 
Remarks	

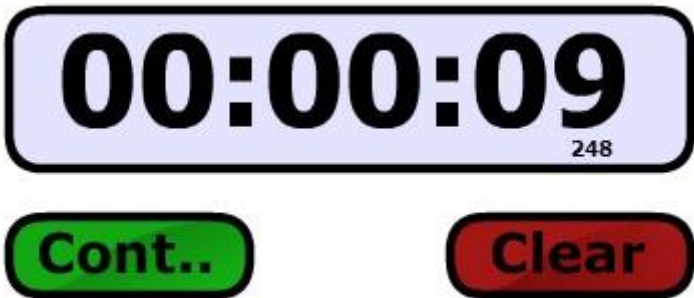
ID	T052
Date	2012-04-23
Performed by	Yu Yau Choi
Description	To test whether the streaming speed is fast enough or not Environment: iPhone , WIFI Connection 40Mbps
Function Testing	Performance - Streaming speed (3)
Testing steps	<ol style="list-style-type: none"> 1. Go to http://speedtest.net/ to ensure the speed is around 39Mbps-40Mbps 2. Browse Music Parade page using web browser (Firefox) 3. Open the menu bar 4. Play a music (Size: 4.3MB) by click the music name 5. Wait until the music is end
Expected Result	Total waiting time should not be longer than 15 second
Actual Result	Total waiting time is 3.9 second 
Remarks	

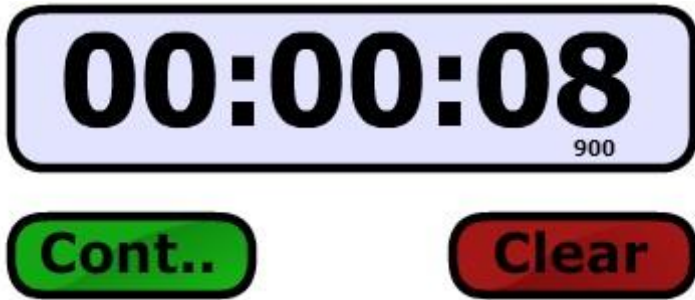
ID	T053
Date	2012-04-23
Performed by	Yu Yau Choi
Description	To test whether the streaming speed is fast enough or

	not Environment: Meizu MX (Android phone) , WIFI Connection 40Mbps
Function Testing	Performance - Streaming speed (3)
Testing steps	<ol style="list-style-type: none"> 1. Go to http://speedtest.net/ to ensure the speed is around 39Mbps-40Mbps 2. Browse Music Parade page using web browser (Firefox) 3. Open the menu bar 4. Play a music (Size: 4.3MB) by click the music name 5. Wait until the music is end
Expected Result	Total waiting time should not be longer than 15 second
Actual Result	<p>Total waiting time is 4.5 second</p> 
Remarks	

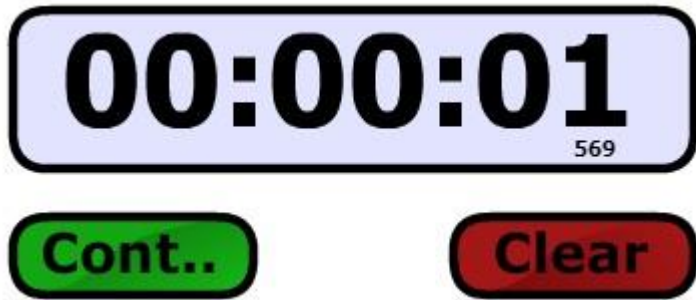
ID	T054
Date	2012-04-23
Performed by	Yu Yau Choi
Description	To test whether the streaming speed is fast enough or not Environment: iPad , WIFI Connection 40Mbps
Function Testing	Performance - Streaming speed (3)
Testing steps	<ol style="list-style-type: none"> 1. Go to http://speedtest.net/ to ensure the speed is around 39Mbps-40Mbps 2. Browse Music Parade page using web browser (Firefox) 3. Open the menu bar 4. Play a music (Size: 4.3MB) by click the music name

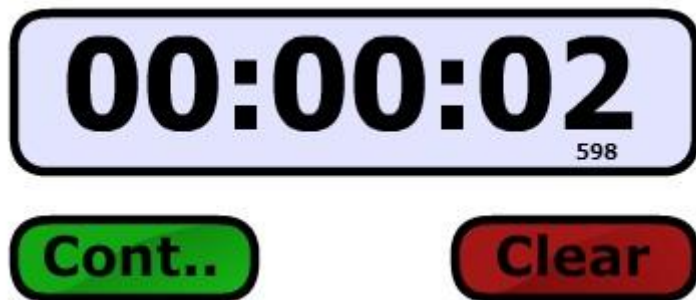
	5. Wait until the music is end
Expected Result	Total waiting time should not be longer than 15 second
Actual Result	<p>Total waiting time is 2.7 second</p> 
Remarks	

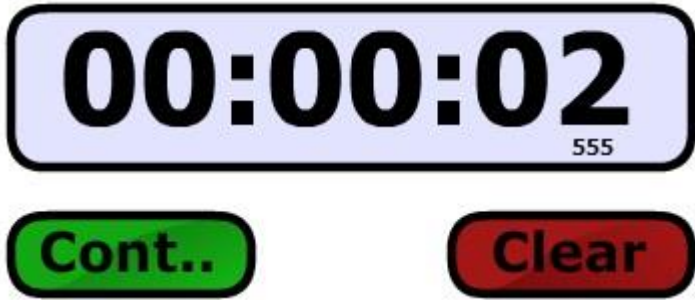
ID	T055
Date	2012-04-23
Performed by	Yu Yau Choi
Description	<p>To test whether the streaming speed is fast enough or not</p> <p>Environment: iPhone , 3G Connection 8Mbps</p>
Function Testing	Performance - Streaming speed (3)
Testing steps	<ol style="list-style-type: none"> 1. Go to http://speedtest.net/ to ensure the speed is around 7.5-8Mbps 2. Browse Music Parade page using web browser (Firefox) 3. Open the menu bar 4. Play a music (Size: 4.3MB) by click the music name 5. Wait until the music is end
Expected Result	Total waiting time should not be longer than 15 second
Actual Result	<p>Total waiting time is 9.2 second</p> 
Remarks	

ID	T056
Date	2012-04-23
Performed by	Yu Yau Choi
Description	To test whether the streaming speed is fast enough or not Environment: Meizu MX (Android phone) , 3G Connection 8Mbps
Function Testing	Performance - Streaming speed (3)
Testing steps	<ol style="list-style-type: none"> 1. Go to http://speedtest.net/ to ensure the speed is around 7.5-8Mbps 2. Browse Music Parade page using web browser (Firefox) 3. Open the menu bar 4. Play a music(Size: 4.3MB) by click the music name 5. Wait until the music is end
Expected Result	Total waiting time should not be longer than 15 second
Actual Result	<p>Total waiting time is 8.9 second</p> 
Remarks	

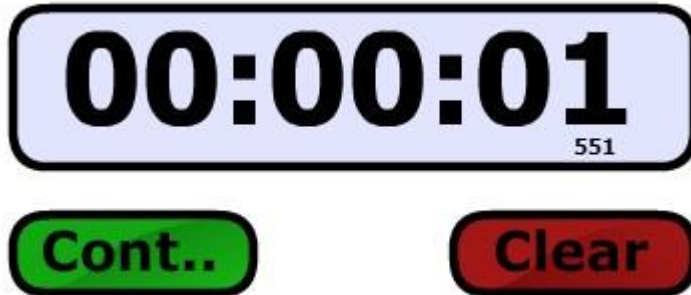
ID	T057
Date	2012-04-23
Performed by	Yu Yau Choi
Description	To test the web server connection speed Environment: Desktop , LAN Connection 100Mbps
Function Testing	Performance - web server connection speed (1)
Testing steps	<ol style="list-style-type: none"> 1. Go to http://speedtest.net/ to ensure the speed is around 99-100Mbps 2. Browse Music Parade page using web browser

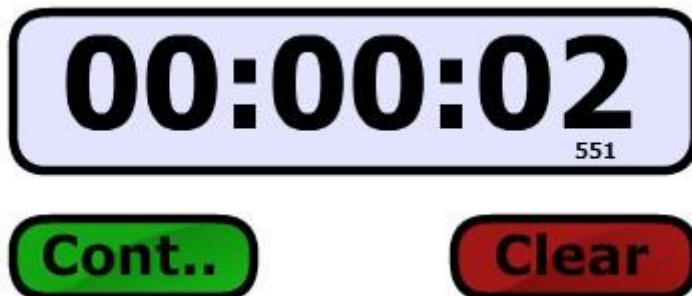
	(Firefox) 3. Wait until the webpage is completely loaded
Expected Result	Total waiting time should not be longer than 6 second
Actual Result	Total waiting time is 1.5 second 
Remarks	

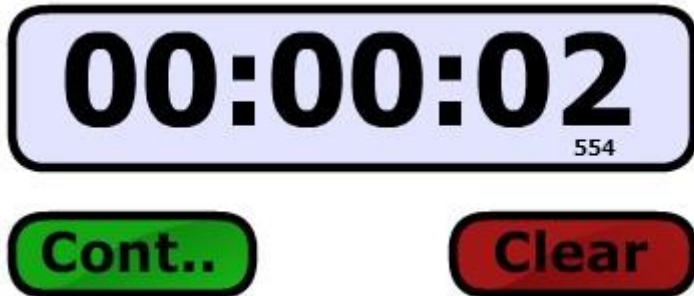
ID	T059
Date	2012-04-23
Performed by	Yu Yau Choi
Description	To test the web server connection speed Environment: iPhone, WIFI Connection 40Mbps
Function Testing	Performance - web server connection speed (2)
Testing steps	1. Go to http://speedtest.net/ to ensure the speed is around 39-40Mbps 2. Browse Music Parade page using web browser (Firefox) 3. Wait until the webpage is completely loaded
Expected Result	Total waiting time should not be longer than 6 second
Actual Result	Total waiting time is 2.5 second 
Remarks	

ID	T060
Date	2012-04-23
Performed by	Yu Yau Choi
Description	To test the web server connection speed Environment: Meizu MX (Android phone) , WIFI Connection 40Mbps
Function Testing	Performance - web server connection speed (3)
Testing steps	<ol style="list-style-type: none"> 1. Go to http://speedtest.net/ to ensure the speed is around 39-40Mbps 2. Browse Music Parade page using web browser (Firefox) 3. Wait until the webpage is completely loaded
Expected Result	Total waiting time should not be longer than 6 second
Actual Result	<p>Total waiting time is 2.5 second</p> 
Remarks	


ID	T061
Date	2012-04-23
Performed by	Yu Yau Choi
Description	To test the connection speed with the login to Facebook Environment: Desktop , LAN Connection 100Mbps
Function Testing	Performance - connection speed with the login to Facebook (1)
Testing steps	<ol style="list-style-type: none"> 1. Go to http://speedtest.net/ to ensure the speed is around 99-100Mbps 2. Browse Music Parade page using web browser (Firefox) 3. Click the login button 4. Wait until the Facebook page is completely



	loaded
Expected Result	Total waiting time should not be longer than 6 second
Actual Result	<p>Total waiting time is 1.5 second</p> 
Remarks	

ID	T062
Date	2012-04-23
Performed by	Yu Yau Choi
Description	<p>To test the connection speed with the login to Facebook</p> <p>Environment: iPhone, WIFI Connection 40Mbps</p>
Function Testing	Performance - connection speed with the login to Facebook (2)
Testing steps	<ol style="list-style-type: none"> 1. Go to http://speedtest.net/ to ensure the speed is around 39-40Mbps 2. Browse Music Parade page using web browser (Firefox) 3. Click the login button 4. Wait until the Facebook page is completely loaded
Expected Result	Total waiting time should not be longer than 6 second
Actual Result	<p>Total waiting time is 2.5 second</p> 

Remarks	
ID	T063
Date	2012-04-23
Performed by	Yu Yau Choi
Description	To test the connection speed with the login to Facebook Environment: Meizu MX (Android phone) , WIFI Connection 40Mbps
Function Testing	Performance - connection speed with the login to Facebook (3)
Testing steps	<ol style="list-style-type: none"> 1. Go to http://speedtest.net/ to ensure the speed is around 39-40Mbps 2. Browse Music Parade page using web browser (Firefox) 3. Click the login button 4. Wait until the Facebook page is completely loaded
Expected Result	Total waiting time should not be longer than 6 second
Actual Result	<p>Total waiting time is 2.5 second</p> 
Remarks	

5.2.12 User Friendliness

ID	T064
Date	2012-04-23
Performed by	Chan Yik Hong
Description	User Friendliness – assess that whether the buttons are easy to recognize
Function Testing	Visualize the button
Testing steps	1. Browse Music Parade page using web browser (Firefox) 2. Guess the function of the button before clicking it
Expected Result	Should be with all correct guessing
Actual Result	All guessing are correct  e.g the menu button is easy to recognize
Remarks	Chan Yik Hong is our classmate and he has not go to Music Parade before

ID	T065
Date	2012-04-23
Performed by	Yu Yau Choi
Description	User Friendliness – the auto login function with Facebook
Function Testing	Connection with Facebook
Testing steps	<ol style="list-style-type: none"> 1. Login the Facebook 2. Browse Music Parade page using web browser (Firefox) 3. Click login button
Expected Result	Should be auto login Music Parade with his/her Facebook
Actual Result	<p>Success</p>  <p>Both are the same account (Yu)</p> 
Remarks	