Test Plan

Summary of Features

* The user should be able to create a playlist from the current library of songs in blocks of 1 - 3 hours each.
  + A linked list will be implemented that will contain the desired songs for a playlist and will be used to save the playlist. It will then be read into a queue to be played.
  + The song queue will have limitations that require the total time of all songs to be between 1 to 3 hours. Otherwise the queue will not be able to be playable.
* A log of the songs played by users should be available to other users, with customization to time frame.
* A list will be created for every user, with basic information of each song that they have played.
* A time frame can be selected from a drop down menu containing time frames such as; 1 day, 1 week, all time etc.
* A statistics page will be automatically created for each user account created.
* The account should have the ability to save any of the user's playlists for future use.
  + Each user will be given a hash table upon creation of an account which will store all of the user’s playlists. The keys for each table will be the user’s unique user name in conjunction with a unique playlist name per playlist.

Proposed Test Scenarios

* New user created. Songs are able to be added to user’s songs played list, user statistics page displays “Most played” stats correctly
  + Inputs: New User with username = “Bob”, add Song with name = “Hi”, length = 5, artist = “Billy”, genre = “Screamo”
  + Expected Outputs: On created dialog box ->

Bob Stats (Title)

Most Played Song: Hi  
Favorite Artist: Billy  
Favorite Genre: Screamo

* Adding Song to Playlist: Song is added from Database to any playlist. Playlist is updated in GUI with the new Song.
  + Inputs: Song in Database playlist; New playlist
  + Expected Outputs: New playlist now contains Song; GUI updated when playlist is refreshed
* Accessing other users’ playlists: User cannot access another user’s playlist
  + Inputs: Create 2 Users; User1 adds playlist; switch to User2 and look at playlists
  + Output: User2 doesn’t have User1 playlist in playlists
* Playlist Creation: User creates a new playlist with a name
  + Inputs: User1 adds a new playlist clicking Add Playlist button, Types in Playlist name = Testing
  + Outputs: Testing Playlist in playlists
* Playlist over 3 hours or under 1 hour cannot be played: Playlist that is 3 hours cannot be played
  + Inputs: Playlist that is over 3 hours or under 1 hour
  + Outputs: Playlist not played

Risk Analysis

* Could not test sorting songs by time frame due to time restraint and UI component not complete
* Could not test admin functions due to UI component not complete
* Playlist over 3 hours and under 1 hour cannot be played but it doesn’t return error

Default Test Coverage

* Always test ability to create users
* Always test ability to create playlists

Review

Test Report

|  |  |
| --- | --- |
| **Test Run** | **Pass/Fail** |
| User creation | Pass |
| User statistics page | Pass |
| Add Song to Playlist | Pass |
| Cannot access other users’ playlists | Pass |
| Playlist creation | Pass |
| Playlist over 3 hours or under 1 hour cannot be played | Pass |