**User Documentation/Instructions**

To use the Song Library application, open it and follow on-screen prompts.

1. Welcome Screen
   1. The user is greeted by a welcome screen and then prompted to continue.
2. Main Menu
   1. The user is prompted to choose from a list of options. To make a choice the user simply types in the number choice.
3. Display All Songs Screen
   1. This screen lists all songs in the song library. It provides song ID, Title, Artist, Album, Length, and Genre for each song.
   2. The user is prompted to hit any key to go back to menu.
4. Display a Song Detail
   1. On this screen all songs are displayed and the user is prompted to enter the song ID of the song they want to see details on.
   2. Once a choice is entered, a song detail screen is shown with all the information for the chosen song.
   3. The user is prompted to return to menu.
5. Add a Song Screen
   1. The add a song screen immediately prompts the user to enter an ID for the new song.
   2. Once a song ID is entered the user is prompted to enter the song Title.
   3. Once a song Title is entered the user is prompted to enter the song Artist.
   4. Once a song Artist is entered the user is prompted to enter the song Album.
   5. Once a song Album is entered the user is prompted to enter the song length.
   6. Once the song Length is entered the user is prompted to enter the song genre.
   7. If at any point during this process the user enters incorrect information, a message will be displayed describing the error and prompting the user to try again.
   8. Once all information is entered a new screen is displayed showing all the new song’s details in a list with a message confirming that the song has been added to the library.
   9. The user is prompted to go back to the menu.
6. Delete a Song Screen
   1. Once a user chooses to delete a song, they are shown a list of all songs with their details.
   2. The user is prompted to enter the ID of the song they wish to delete.
   3. If entry is empty, user is told they must enter an ID
   4. If entry is not valid user is prompted to enter a new ID
   5. Once a correct ID is given, a message is displayed confirming song deletion
   6. User is prompted to go back to menu
7. Edit a Song Screen
   1. Upon choosing to edit a song, the user is shown a list of all songs and their details and prompted to enter the song ID to edit.
   2. Once a song is chosen a screen displays showing the song ID and a prompt asking the user to enter a new song title or push enter to keep the title the same.
   3. Once the title is chosen, a new screen pops up displaying the song ID and Title and a prompt asks the user to enter the new Artist name or push enter to keep it the same.
   4. Once the Artist is chosen a new screen pops up displaying the song ID, Title, and Artist and a prompt asks the user to enter the new Album name or push enter to keep it the same.
   5. Once the Album is chosen a new screen pops up displaying the song ID, Title, Artist, and Album and a prompt asks the user to enter the new song length or push enter to keep it the same.
   6. Once the Song Length is chosen a new screen pops up displaying the song ID, Title, Artist, Album, Length and a prompt asks the user to enter the new song genre or push enter to keep it the same.
   7. Once genre is chosen a new screen pops up displaying all the updated song details with a message confirming the song has been updated.
   8. The user is prompted to go back to the menu.
8. Query Songs by Artist
   1. When a user chooses to query songs by artist a screen is displayed that prompts the user to enter an artist’s name
   2. If no name is entered the user is prompted to return to the menu.
   3. If a search returns no results, a screen with the song header is displayed with a blank table and a prompt to return to the menu.
   4. When the user enters an existing artist, a screen displays all songs by that artist with their details with a prompt to return to the menu.
9. Query Songs by Album
   1. This query functions exactly the same as the query by artist.
10. Sort Songs by Length
    1. When a user chooses this option a screen is displayed that lists all songs in the library sorted by song length in descending order.
    2. The user is prompted to return to the menu
11. Play Song
    1. When the user chooses to Play a song a screen is displayed listing all the available songs in the library.
    2. The user is prompted to enter the ID of the song they wish to play.
    3. Once a song ID is entered a new screen displays listing the song’s details.
    4. The user is prompted to either Play or Stop the song.
    5. If a user chooses to play a song the song plays and a prompt shows to stop the song.
    6. If a user chooses a song that does not have a wav file in the library, a message is displayed informing the user that that song is not available at this time.
    7. If a user chooses to stop the song the song stops and they are prompted to return to the menu.
12. Exit
    1. If a user chooses to exit the application, a screen displays thanking the user and a prompt is displayed to exit.