

# Music Playlist Management Application — User Guide

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## Table of Contents

<b>Introduction.....</b>	<b>3</b>
<b>Main Menu Selections Options .....</b>	<b>3</b>
<b>Add a Song - Menu Option .....</b>	<b>4</b>
<b>Display Song - Menu Option .....</b>	<b>6</b>
<b>Save Current Playlist - Menu Option.....</b>	<b>7</b>
<b>Exit – Menu Option .....</b>	<b>7</b>
<b>Reference Application Details – Google Play App.....</b>	<b>8</b>
End of Document .....	8

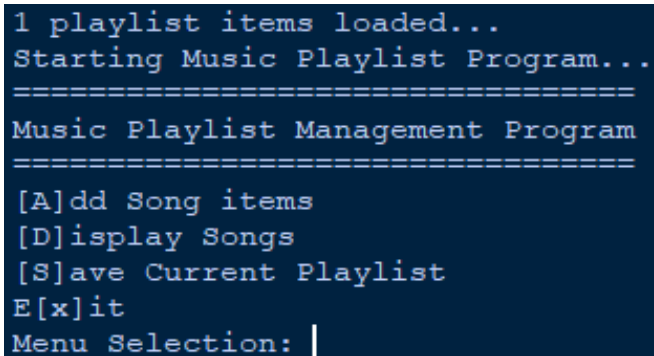
# Introduction

Welcome to the user guide for the **Playlist Management Application**, the purpose of this document is to assist and demonstrate how to use the application. The **Playlist Management Application** mainly operates around the ability to add songs to the playlist through interactive text menus. At any point when the user has completed their playlist, they are given the option to save all the songs they entered to a CSV file. The option to have additional songs added to the file that was imported is also available, if no such file exists then one will be created with the same name containing all new songs that the user has inputted if any. Throughout the application, the user can display the items they have added to their playlist through an in-application menu option.

## Main Menu Selections Options

After launching the application, a menu will be presented to the user, there should be four available menu options below the line of text indicating if any songs have been imported from the CSV file in the same folder as the application. For each option, there will be an enclosed letter in a pair of square brackets [ ] these are the inputs needed to perform a selection of the menu options. *\*Note the enclosed square brackets are not needed and will result in an error if included in user input.*

### \*Screenshot of Main Menu Below

A screenshot of a terminal window showing the main menu of the 'Music Playlist Management Program'. The text is as follows:

```
1 playlist items loaded...
Starting Music Playlist Program...
=====
Music Playlist Management Program
=====
[A]dd Song items
[D]isplay Songs
[S]ave Current Playlist
E[x]it
Menu Selection: |
```

*\*The above screenshot displays all menu options, at the very top of the screenshot is the line of text indicating if any playlist items were able to be imported automatically.*

At the bottom of the main menu (after the option to exit) is a prompt **Menu Selection:** this is where the user will need to enter one of the letters if they wish to navigate to its corresponding

area. From here you will receive one of several prompts displayed to you, each of these individual menu options is listed below in their relevant sections with screenshots and information for each menu option and scenario.

If the user, however, enters an invalid input, they will be displayed an error indicating as such, with the user being sent back to the main menu requesting for them to try again.

**\*Screenshot of Invalid Menu Selection - Below**

```
=====
Music Playlist Management Program
=====
[A]dd Song items
[D]isplay Songs
[S]ave Current Playlist
E[x]it
Menu Selection: none
Error! Invalid menu selection
```

*\*The above screenshot displays all menu options, after the line of text 'Menu selection' the user here has entered a menu selection that doesn't perform any of the menu options. The program has returned an error message indicating that their input isn't valid, and they need to try again.*

At any point in the application when the user is prompted for an input they provide an empty value such as pressing enter on their corresponding keyboard, they will be displayed a separate error message stating that inputs cannot be empty **\*This applies to all points in the application where an input is required from the user**

**\*Screenshot of Empty Input Error Message – Below (Example Shown is not exclusive to Menu)**

```
=====
Music Playlist Management Program
=====
[A]dd Song items
[D]isplay Songs
[S]ave Current Playlist
E[x]it
Menu Selection:
Input Error! Cannot be empty: |
```

**Add a**

## Song - Menu Option

When the user has selected the main menu option to '**Add Song items**', they will be presented with a short message indicating what section of the application they are currently in, followed by a request for them to enter the details of their intended song, these are as follows; **Song Name, Album and Year**.

**\*Screenshot of various prompts for 'Add Song Items' menu option - Below**

```
=====
Music Playlist Management Program
=====
[A]dd Song items
[D]isplay Songs
[S]ave Current Playlist
E[x]it
Menu Selection: a
Add song...
Enter song name: Example Song Name
Enter album name for Example Song Name: Example Album Name
Enter Year for Example Song Name: 2021
```

*\*In the screenshot above the has entered inputs for each of the details for the song they wish to add to the program, each of the prompts will be displayed followed by an empty line on which the user is required to provide input.*

The first two prompts for inputs (**Song Name & Album**) do not have any restrictions on the type of input given by the user i.e., an integer, float etc.

From here the user can enter with their keyboard a song title of their choosing, once they have entered their song, they will be presented with a similar prompt requesting the year of release for the previous song. However, the prompt for the user to input the songs year of release is restricted to only integer inputs from the user. If the user provides an invalid input to the prompt an error will be displayed indicating they have provided an invalid integer, after the error message will be a request for a re-input **\*A user will not be able to progress past this point until they provide a valid input, at this point in the program a user will need to exit from the program completely if they don't wish to not add the current song item while in the process of adding one.**

**\*Screenshot of Invalid Song Year Message - Below**

```
=====
Music Playlist Management Program
=====
[A]dd Song items
[D]isplay Songs
[S]ave Current Playlist
E[x]it
Menu Selection: a

Add song...
Enter song name: Example Song
Enter album name for Example Song: Example Album
Enter Year for Example Song: Non Int
Year must be a valid integer...Enter Year for Example Song: |
```

Finally, if the user has met all the requirements for adding their desired song item, they will be displayed a confirmation message shown in the screenshot below indicating the process was successful. Upon this messages display, the user is returned to the main menu allowing them to select the menu options again.

### **\*Screenshot of Completed Add Song Items – Below**

```
=====
Music Playlist Management Program
=====
[A]dd Song items
[D]isplay Songs
[S]ave Current Playlist
E[x]it
Menu Selection: a

Add song...
Enter song name: Example Song Name
Enter album name for Example Song Name: Example Album Name
Enter Year for Example Song Name: 2021
Song Item has been added...
=====
Music Playlist Management Program
=====
[A]dd Song items
[D]isplay Songs
[S]ave Current Playlist
E[x]it
Menu Selection: |
```

## **Display Song - Menu Option**

Once the user has entered a correct input to select the display song option they will be presented with a short message, with the contained song details below as demonstrated in the relevant screenshot.

### **\*Screenshot Display Song – Below**

```
=====
Music Playlist Management Program
=====
[A]dd Song items
[D]isplay Songs
[S]ave Current Playlist
E[x]it
Menu Selection: d
Display all songs...
Example Song Name, Example Album Name, 2021
```

If the user hasn't imported or entered any song items or if the program hasn't automatically imported any this section will be left blank underneath the '**Display all songs...**' message.

## Save Current Playlist - Menu Option

After the user has performed a valid input for the '**Save Current Playlist**' main menu option, they will be presented with a short message indicating which section of the application they are in, followed by a prompt indicating if the file has successfully been saved. After which the user will be returned to the main menu.

**\*Screenshot Save Playlist Screen Below**

```
=====
Music Playlist Management Program
=====
[A]dd Song items
[D]isplay Songs
[S]ave Current Playlist
E[x]it
Menu Selection: s
Saving songs to .csv file
Success in saving songs!
```

## Exit – Menu Option

When the user wishes to exit the application, they will need to enter the letter '**X**', either in lower case or uppercase. When they perform this input the application will display a message announcing that it has been completed, followed by the application ceasing to run.

**\*Screenshot Exit Screen Below**

```
=====
Music Playlist Management Program
=====
[A]dd Song items
[D]isplay Songs
[S]ave Current Playlist
E[x]it
Menu Selection: x
Ending Program
>>> |
```

## Reference Application Details – Google Play App

Chosen application for reference and inspiration is **Spotify**, aspects of the app that have been engineered to meet assignment requirements are as follows **(Not fully implemented)**:

- **Add Songs to Playlist**
- **Display Songs in Playlist**
- **Save Playlist**
- **Add/Create Playlist**
- **Import Playlist**

The above is not fully implemented and are not intended to be, but are non the less have included and pointed out for reference in this program documentation.

**Link to App Below:**

[https://play.google.com/store/apps/details?id=com.spotify.music&hl=en\\_AU&gl=US](https://play.google.com/store/apps/details?id=com.spotify.music&hl=en_AU&gl=US)

End of Document