User Guide for Music Management Application

Overview

This Music Management Application allows users to manage their music library efficiently. The application consists of three main components:

1.User Authentication System: For user registration and login.

2.Songs Management System (Developer): For developers to manage song data.

3.Songs Management System (User): For users to search and explore songs.

Prerequisites :
- Python 3.x installed on your system.
- Required libraries (if any) installed (e.g., json for handling JSON files).

1. User Authentication System

<u>Functionality</u>

- Signup: New users can register by providing their email ID, password, first name, last name, and age.
- Sign-in: Existing users can log in using their credentials.
- Exit: Users can exit the application.

<u>Steps to Execute</u>

- Run the User Authentication Script:
- Open a terminal or command prompt.
- Navigate to the directory containing the script.
- Run the command:

python user_authentication.py

- Signup:
- Select the Signup option.
- Enter the required details:
- Email ID
- Password
- First Name
- Last Name
- Age

If the email ID already exists, you will be prompted to enter a different one.

- Sign-in:
- Select the Sign-in option.
- Enter your email ID and password.

If successful, you will see a welcome message. If not, an error message will prompt you to try again.

Exit:

Select the Exit option to close the application gracefully.

2. Songs Management System (Developer)

Functionality

- Load Song Data: Load song information from a text file.
- View Songs Database: Display all songs in a neat format.
- Delete a Particular Song: Remove a specific song from the database.
- Modify Song Information: Update details of a specific song.

Steps to Execute

- Run the Developer Songs Management Script:
- Open a terminal or command prompt.
- Navigate to the directory containing the script.
- Run the command:

python songs_management_dev.py

- Load Song Data:
- Select the Load Song Data option.
- Enter the filename containing the song information (e.g., songs_data.txt).
- Confirm that songs are loaded successfully.
- View Songs Database:
- Select the View Songs Database option.
- The application will display all songs in the database, including title, artist, and genre.
- Delete a Particular Song:
- Select the Delete a Song option.
- Enter the artist's name and the title of the song you want to delete.
- Confirm the deletion process.
- Modify Song Information:

- Select the Modify a Song option.
- Enter the artist's name and the title of the song to modify.
- Input new details for the album, genre, or duration as needed.

3. Songs Management System (User)

Functionality
- Search for a Song by Title: Retrieve details of a specific song.
- Search for All Songs by an Artist: List all songs from a specific artist.
- Exit: Close the application.

Steps to Execute

- Run the User Songs Management Script:
- Open a terminal or command prompt.
- Navigate to the directory containing the script.
- Run the command:

python songs_management_user.py

- Search for a Song by Title:
- Select the Search for a Song by Title option.
- Enter the title of the song you wish to find.
- If found, the song details (artist, album, genre, duration) will be displayed.
- Search for All Songs by an Artist:
- Select the Search for All Songs by an Artist option.
- Enter the artist's name.
- If songs are found, they will be displayed with their details.
- Exit
- Select the Exit option to close the application gracefully.

Notes

- Ensure that the text files used for song data are formatted correctly and are in the same directory as the script files for easy access.
- Make sure to follow any specific format or naming conventions for files as required by the scripts.
- This user guide should help anyone understand how to navigate and use the Music Management Application effectively.