**Case Study: Music Streaming Service**

**Objective:** Develop a menu-based console application to assess your proficiency in Core Java, MySQL, and JDBC. The application will simulate a music streaming service, allowing users to manage songs, playlists, and user accounts.

**Functionalities:**

1. **Song Management:**
   * Add a new song
   * View song details
   * Update song information
   * Delete a song
2. **Playlist Management:**
   * Create a new playlist
   * View playlist details
   * Update playlist information
   * Delete a playlist
3. **User Account Management:**
   * Register a new user account
   * View user account details
   * Update user account information
   * Delete a user account

**Database Schema:**

* **Song Table:**
  + song\_id (Primary Key)
  + title
  + artist
  + duration
  + genre
* **Playlist Table:**
  + playlist\_id (Primary Key)
  + name
  + creator\_id (Foreign Key references User Table)
  + creation\_date
* **User Table:**
  + user\_id (Primary Key)
  + username
  + email
  + password\_hash
  + subscription\_type
* **Playlist\_Song Table (Many-to-Many Relationship):**
  + playlist\_id (Foreign Key references Playlist Table)
  + song\_id (Foreign Key references Song Table)

**Requirements:**

* Develop a menu-based console application using Core Java.
* Use JDBC for interactions with the MySQL database.
* Implement menu options for managing songs, playlists, and user accounts.
* Allow users to add songs to playlists and view songs in a playlist.
* Handle exceptions effectively and provide user-friendly error messages.
* Ensure the application code is clean, well-documented, and follows standard coding conventions.

**Submission:**

* Submit the complete source code along with a README file that provides setup and usage instructions.
* Share your project by uploading it to a public GitHub repository.
* Provide the link to the GitHub repository to the coaches.