**Case Study: Podcast Management System**

**Objective:**

Develop a menu-based console application to assess your proficiency in Core Java, MySQL, and JDBC. The application will simulate a podcast management system for a communications and media company, allowing users to manage podcasts, episodes, and subscriptions.

**Functionalities:**

1. **Podcast Management:**
   * Add a new podcast
   * View podcast details
   * Update podcast information
   * Delete a podcast
2. **Episode Management:**
   * Add a new episode to a podcast
   * View episode details
   * Update episode information
   * Delete an episode
3. **Subscription Management:**
   * Subscribe to a podcast
   * View subscription details
   * Update subscription information
   * Cancel a subscription

**Database Schema:**

* **Podcast Table:**
  + podcast\_id (Primary Key)
  + title
  + description
  + host
  + category
  + release\_schedule
* **Episode Table:**
  + episode\_id (Primary Key)
  + podcast\_id (Foreign Key references Podcast Table)
  + title
  + description
  + release\_date
  + duration
* **Subscription Table:**
  + subscription\_id (Primary Key)
  + user\_id (Foreign Key references User Table)
  + podcast\_id (Foreign Key references Podcast Table)
  + subscription\_date
  + expiry\_date
  + status (active/inactive)

**User Table:**

* user\_id (Primary Key)
* username
* email
* date\_of\_birth
* registration\_date

**Requirements:**

* Develop a menu-based console application using Core Java.
* Use JDBC for interactions with the MySQL database.
* Implement menu options for managing podcasts, episodes, and subscriptions.
* Ensure that the application updates subscription statuses and handles user, podcast, and episode data efficiently.
* 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.