**Case Study: Ticket Booking System**

**Objective:**

Develop a menu-based console application to assess your proficiency in Core Java, MySQL, and JDBC. The application will simulate a ticket booking system for a cinema, allowing users to manage movies, showtimes, and bookings.

**Functionalities:**

1. **Movie Management:**
   * Add new movies to the cinema
   * View movie details
   * Update movie information
   * Delete movies from the cinema
2. **Showtime Management:**
   * Schedule showtimes for movies
   * View showtime details
   * Update showtime information
   * Delete showtimes
3. **Booking Management:**
   * Allow users to book tickets for movies
   * View booking details
   * Update booking information (cancel bookings)
   * Calculate total ticket price

**Database Schema:**

* **Movie Table:**
  + movie\_id (Primary Key)
  + title
  + genre
  + duration
  + release\_date
* **Showtime Table:**
  + showtime\_id (Primary Key)
  + movie\_id (Foreign Key references Movie Table)
  + start\_time
  + end\_time
  + available\_seats
  + total\_seats
* **Booking Table:**
  + booking\_id (Primary Key)
  + showtime\_id (Foreign Key references Showtime Table)
  + user\_id (Foreign Key references User Table)
  + booking\_date
  + total\_tickets
  + total\_price

**Requirements:**

* Develop a menu-based console application using Core Java.
* Use JDBC for interactions with the MySQL database.
* Implement menu options for managing movies, showtimes, and bookings.
* Ensure the application allows for booking tickets, updating booking status, and managing cinema schedules 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.