**Case Study: Sports Event Management System**

**Objective:**

Develop a menu-based console application to assess your proficiency in Core Java, MySQL, and JDBC. The application will simulate a sports event management system, allowing users to manage athletes, events, and results.

**Functionalities:**

1. **Athlete Management:**
   * Add new athletes
   * View athlete details
   * Update athlete information
   * Remove athletes
2. **Event Management:**
   * Create new events
   * View event details
   * Update event information
   * Remove events
3. **Result Management:**
   * Record results for events
   * View result details
   * Update result information
   * Remove results

**Database Schema:**

* **Athlete Table:**
  + athlete\_id (Primary Key)
  + name
  + country
  + age
  + sport
* **Event Table:**
  + event\_id (Primary Key)
  + name
  + date
  + venue
  + type (e.g., track, field, team sport)
* **Result Table:**
  + result\_id (Primary Key)
  + event\_id (Foreign Key references Event Table)
  + athlete\_id (Foreign Key references Athlete Table)
  + result
  + result\_date

**Requirements:**

* Develop a menu-based console application using Core Java.
* Use JDBC for interactions with the MySQL database.
* Implement menu options for managing athletes, events, and results.
* Ensure the application allows for recording results, updating athlete details, and managing event information 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.