**Case Study: Event Management System**

**Objective:**

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

**Functionalities:**

1. **Event Management:**
   * Add a new event
   * View event details
   * Update event information
   * Delete an event
2. **Participant Management:**
   * Add a new participant
   * View participant details
   * Update participant information
   * Delete a participant
3. **Registration Management:**
   * Register a participant for an event
   * View registration details
   * Update registration information
   * Cancel a registration

**Database Schema:**

* **Event Table:**
  + event\_id (Primary Key)
  + name
  + date
  + location
  + description
  + capacity
* **Participant Table:**
  + participant\_id (Primary Key)
  + name
  + email
  + phone\_number
* **Registration Table:**
  + registration\_id (Primary Key)
  + event\_id (Foreign Key references Event Table)
  + participant\_id (Foreign Key references Participant Table)
  + registration\_date
  + status (registered/cancelled)

**Requirements:**

* Develop a menu-based console application using Core Java.
* Use JDBC for interactions with the MySQL database.
* Implement menu options for managing events, participants, and registrations.
* Ensure that the application updates the capacity in the Event table appropriately after a registration or cancellation.
* 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.