**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 manage an event management system, allowing users to perform operations related to managing events, participants, and registrations.

**Functionalities:**

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

**Database Schema:**

* **Event Table:**
  + event\_id (Primary Key)
  + name
  + date
  + location
  + 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

**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 participant is registered or a registration is canceled.
* 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.