**Case Study: University Course Registration System**

**Objective:**

Develop a menu-based console application to assess your proficiency in Core Java, MySQL, and JDBC. The application will simulate a university course registration system, allowing users to manage courses, students, and registrations.

**Functionalities:**

1. **Course Management:**
   * Add a new course
   * View course details
   * Update course information
   * Delete a course
2. **Student Management:**
   * Register a new student
   * View student details
   * Update student information
   * Delete a student
3. **Registration Management:**
   * Register a student for a course
   * View registration details
   * Update registration information
   * Cancel a registration

**Database Schema:**

* **Course Table:**
  + course\_id (Primary Key)
  + course\_name
  + instructor
  + schedule
  + capacity
* **Student Table:**
  + student\_id (Primary Key)
  + name
  + email
  + phone\_number
  + address
* **Registration Table:**
  + registration\_id (Primary Key)
  + course\_id (Foreign Key references Course Table)
  + student\_id (Foreign Key references Student 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 courses, students, and registrations.
* Ensure that the application updates the capacity in the Course table appropriately after a student registers for or cancels a course.
* 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.