**Case Study: Restaurant Management System**

**Objective:**

Develop a menu-based console application to assess your proficiency in Core Java, MySQL, and JDBC. The application will simulate a restaurant management system, allowing users to manage menus, orders, and customers.

**Functionalities:**

1. **Menu Management:**
   * Add a new menu item
   * View menu details
   * Update menu information
   * Delete a menu item
2. **Order Management:**
   * Place a new order
   * View order details
   * Update order information
   * Cancel an order
3. **Customer Management:**
   * Register a new customer
   * View customer details
   * Update customer information
   * Delete a customer

**Database Schema:**

* **Menu Table:**
  + item\_id (Primary Key)
  + name
  + description
  + price
  + availability\_status
* **Order Table:**
  + order\_id (Primary Key)
  + item\_id (Foreign Key references Menu Table)
  + customer\_id (Foreign Key references Customer Table)
  + order\_date
  + status (placed/ready/cancelled)
* **Customer Table:**
  + customer\_id (Primary Key)
  + name
  + email
  + phone\_number
  + address

**Requirements:**

* Develop a menu-based console application using Core Java.
* Use JDBC for interactions with the MySQL database.
* Implement menu options for managing menus, orders, and customers.
* Ensure that the application updates the availability\_status in the Menu table appropriately after an item is ordered or cancelled.
* 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.