**Case Study: Subscription Service Management System**

**Objective:**

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

**Functionalities:**

1. **Subscription Management:**
   * Add a new subscription plan
   * View subscription plan details
   * Update subscription plan information
   * Delete a subscription plan
2. **Customer Management:**
   * Add a new customer
   * View customer details
   * Update customer information
   * Delete a customer
3. **Payment Management:**
   * Record a new payment
   * View payment details
   * Update payment information
   * Delete a payment

**Database Schema:**

* **Subscription Table:**
  + subscription\_id (Primary Key)
  + name
  + description
  + price\_per\_month
  + duration\_months
* **Customer Table:**
  + customer\_id (Primary Key)
  + name
  + email
  + phone\_number
  + address
* **Payment Table:**
  + payment\_id (Primary Key)
  + customer\_id (Foreign Key references Customer Table)
  + subscription\_id (Foreign Key references Subscription Table)
  + payment\_date
  + amount

**Requirements:**

* Develop a menu-based console application using Core Java.
* Use JDBC for interactions with the MySQL database.
* Implement menu options for managing subscriptions, customers, and payments.
* Ensure that the application handles subscription durations correctly and calculates the total payment amount based on the selected subscription plan.
* 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.