**Case Study: Basic Banking System**

**Objective:**

Develop a menu-based console application to assess your proficiency in Core Java, MySQL, and JDBC. The application will simulate a basic banking system for managing customer accounts.

**Functionalities:**

1. **Account Management:**
   * Add new customer accounts
   * View account details
   * Update account information
   * Close accounts
2. **Transaction Management:**
   * Deposit funds into an account
   * Withdraw funds from an account
   * Transfer funds between accounts
   * View transaction history for an account

**Database Schema:**

* **Account Table:**
  + account\_id (Primary Key)
  + customer\_id (Foreign Key references Customer Table)
  + account\_type (Savings, Checking)
  + balance
* **Transaction Table:**
  + transaction\_id (Primary Key)
  + account\_id (Foreign Key references Account Table)
  + transaction\_type (Deposit, Withdrawal, Transfer)
  + amount
  + transaction\_date

**Requirements:**

* Develop a menu-based console application using Core Java.
* Use JDBC for interactions with the MySQL database.
* Implement menu options for managing accounts and transactions.
* Ensure the application allows for adding, viewing, updating, and closing accounts, as well as performing deposit, withdrawal, and transfer transactions.
* 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.