Bank Management System

1. Project Overview:

➔ The **Bank Management System** is a simple banking application developed using **Java Swing** and **MySQL**. This project allows users to perform essential banking operations like deposits, withdrawals, balance inquiries, and more. The system ensures secure transactions and user authentication, making it efficient for managing bank-related functionalities.

➔ Technologies Used:

   o **Programming Language**: Java (Swing for GUI)
   o **Database**: MySQL
   o **IDE**: Visual Studio Code

➔ If you want to understand more, go to READ.md in project and read it.

2. Features Explanation

➔ Authentication System:

   o Users need to log in to access banking features.

   o If an account does not exist, users must sign up first.

➔ Banking Operations:

   o Deposit – Add money to the account. o Fast Cash – Withdraw predefined amounts quickly.
   o Balance Enquiry – Check the current balance. o Mini Statement – View recent transactions.
   o PIN Change – Update the ATM PIN for security.
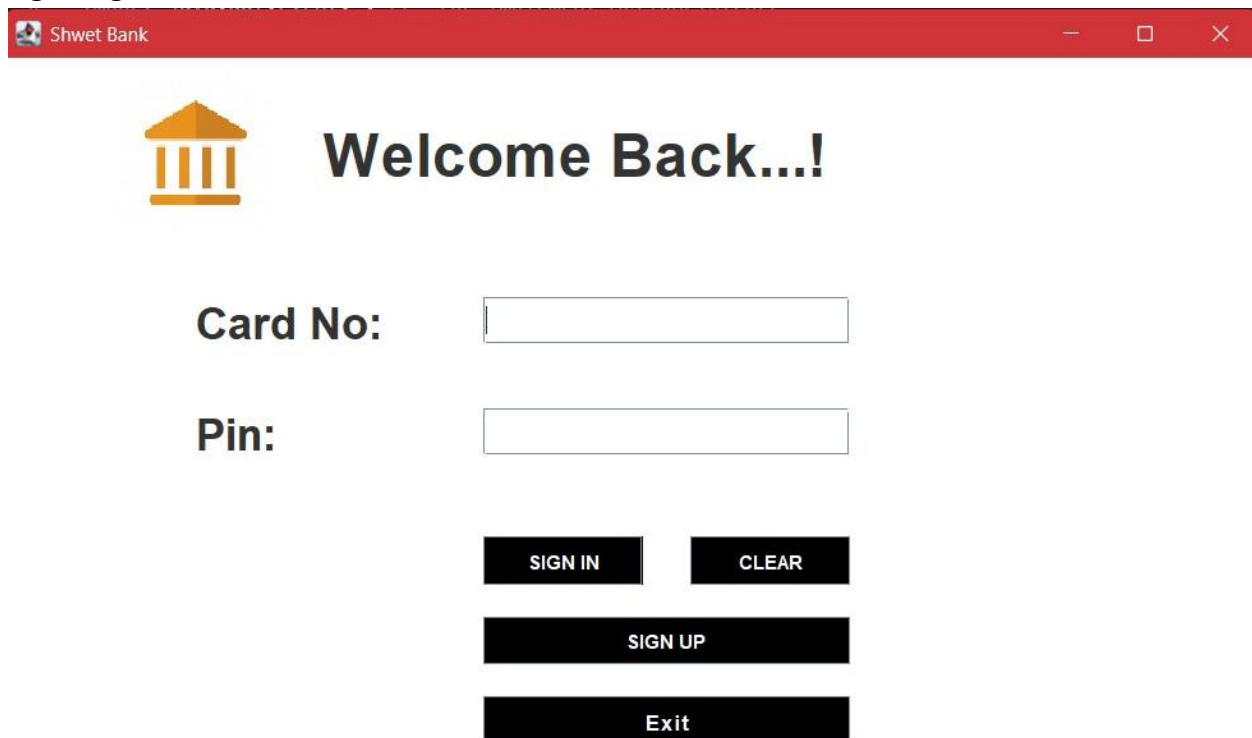
3. Installation Guide:

➔ Prerequisites:

   o Install Java JDK and set up environment variables.

   o Install MySQL Server & MySQL Workbench.

   o Add mysql-connector-j-9.2.0.jar to the lib folder of the project.

➔ Steps to Run the Projects:
   o Every time, you have debug Login.java to start the application.

4. Screenshots:

Login Page:

Signup Page:

APPLICATION FORM NO. 4515

Page 1: Personal Details

Name: _____

Father's Name: _____

Date of Birth: _____ 📅

Gender: ⚪ Male   ⚪ Female

Email Address: _____

Marital Status: ⚪ Married   ⚪ Unmarried   ⚪ Other

Address: _____

City: _____

State: _____

Pin Code: _____

Next

Main Dashboard:
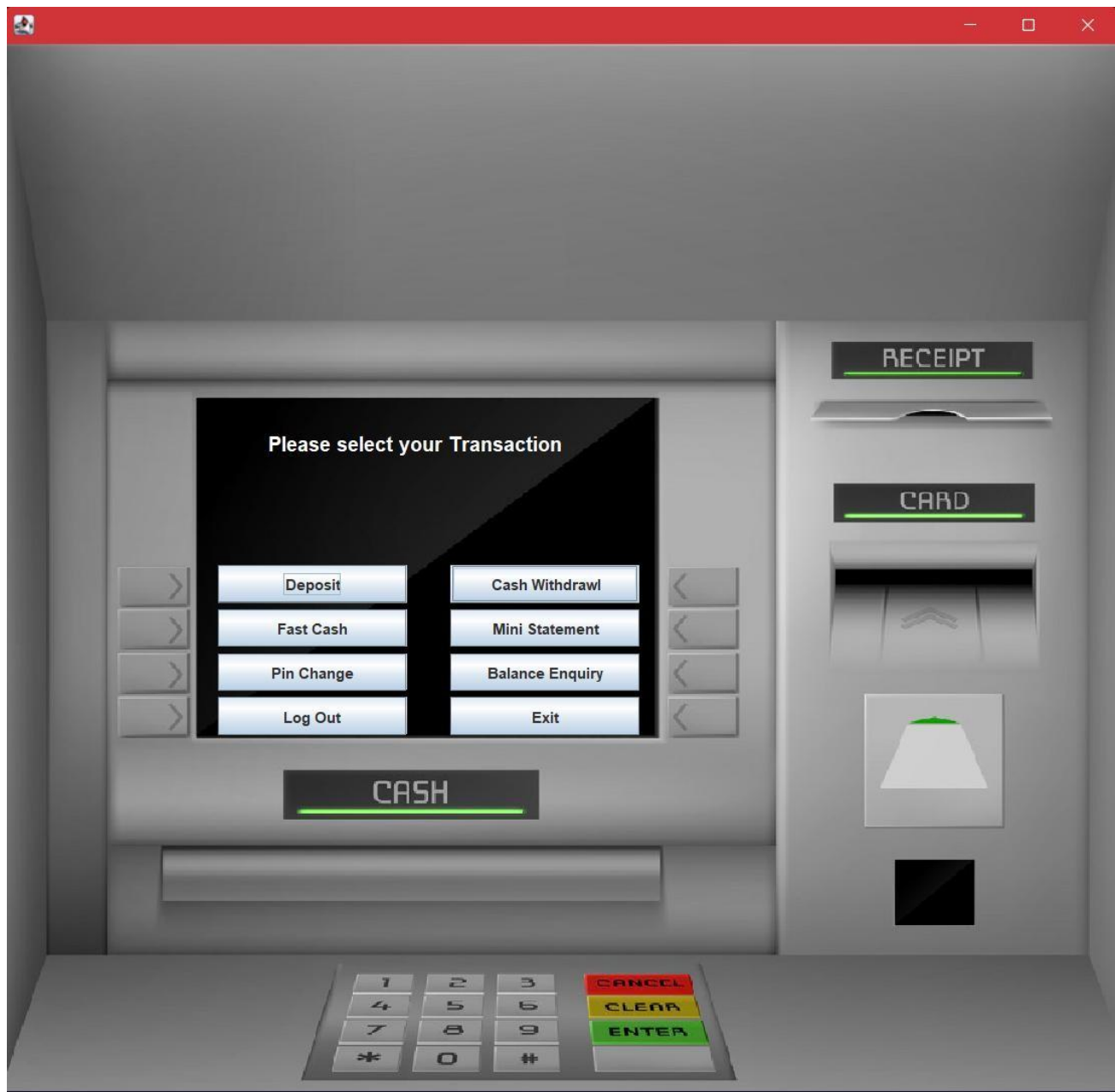
Mini Statement:

Mini Statement

Shwet Bank

Card Number: 5040XXXXXXXX0651

Fri Mar 21 00:16:14 IST 2025	Deposit	5000
Fri Mar 21 00:16:22 IST 2025	Deposit	5000
Fri Mar 21 00:16:28 IST 2025	Withdraw	200
Fri Mar 21 00:16:36 IST 2025	Withdrawl	1000

Your current account balance is Rs 8800

5. Conclusion:

➔ **Challenges Faced:**

    o Implementing secure authentication

    o Managing database connections efficiently.

➔ **Future Improvements:**

    o   Add Advanced Validations. o Adding fund transfer between accounts. o Implementing loan and interest accounts.

    o   Enhancing the UI/UX design

7. Developed by:

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THANK YOU