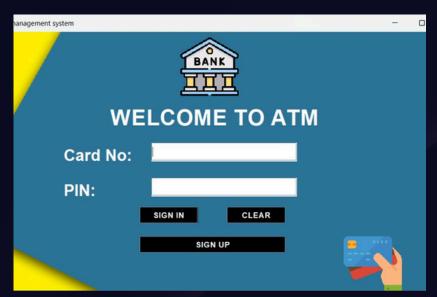
Bank Management System: A Java Swing Application

This Java-based desktop application simplifies bank operations. It uses Swing for the GUI and MySQL for the database. Users can sign up, log in, deposit, withdraw, and check balances. This project showcases Java OOP, GUI design, and database connectivity. Our goal is to create a seamless banking experience.





Login Class: User Authentication

- Handle Authentication
 - Verifies user credentials against the MySQL database securely.
- **Secure Data Handling** Includes password encryption for enhanced security.

- **GUI for Login** Features text fields for username and password, with a login button.
- **Access Control** Grants application access upon valid credentials.

Signup Class: New User Registration



+ Enable Registration

Allows new users to create accounts easily.



Collect Details

Gathers personal information and security questions.



Secure Storage

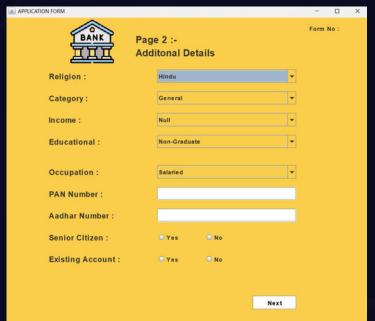
Stores user data securely in the MySQL database.

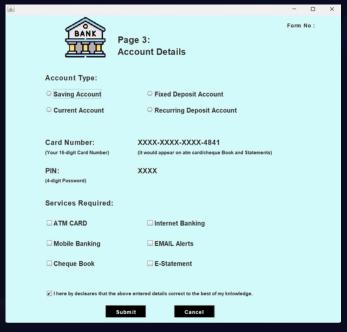


Validate Inputs

Ensures all entered data is valid and correct.







Deposit Class: Fund Deposits



Enter Amount

User inputs the desired deposit amount.



Validate Input

Ensures the entered amount is valid.



Update Balance

Account balance is updated in the database.



Confirm Transaction

Provides confirmation for the successful deposit.



FastCash Class: Quick Withdrawals

Predefined Amounts

Offers quick withdrawal buttons for common amounts.

Instant Balance Update

Updates account balance immediately after withdrawal.

Transaction Limits

Enforces daily and per-transaction limits for security.

Streamlined Workflow

Simplifies withdrawals for user convenience.



BalanceEnquiry Class: Account Balance Check

User Request

User initiates a balance inquiry.

Retrieve Data

Account balance is fetched from the MySQL database.

Display Balance

The current balance is shown on the GUI in real-time.



Conclusion: Key Benefits and Future Enhancements

Key Benefits

Secure banking operations ensured.
 User-friendly GUI for easy
 navigation. Efficient database
 management system.

Future Enhancements

Integrate mobile banking features.
 Implement advanced security protocols. Add more banking services and options.

```
Limit to 1000 rows

use bankingSystem;

create table signup(form_no varchar (38), name varchar (100), father_name varchar(100), gends

eselect * from signup;

create table signuptwo(form_no varchar (38), Religion varchar (100), Category varchar(100), select * from signuptwo;

create table signuptwo;

create table signupthree(form_no varchar (38), account_type varchar(30), card_number varchar(30), select * from signupthree;

create table login(form_no varchar(30), card_number varchar(30), pin varchar(30));

select * from login;

create table bank(pin varchar(10), date varchar(60), type varchar(30), amount varchar(20));

create table bank(pin varchar(10), date varchar(60), type varchar(30), amount varchar(20));

select * from bank;
```

Trank You