

PES University, Bengaluru

(Established under Karnataka Act 16 of 2013)

Department of Computer Science & Engineering Session: Jan - May 2022

UE19CS353 - Object Oriented Analysis and Design with Java

Theory ISA (Mini Project)

Report on

Banking System

Pallavi Prabhu – PES2UG19CS274
Poorani R – PES2UG19CS284
Preetha Narayanan – PES2UG19CS294

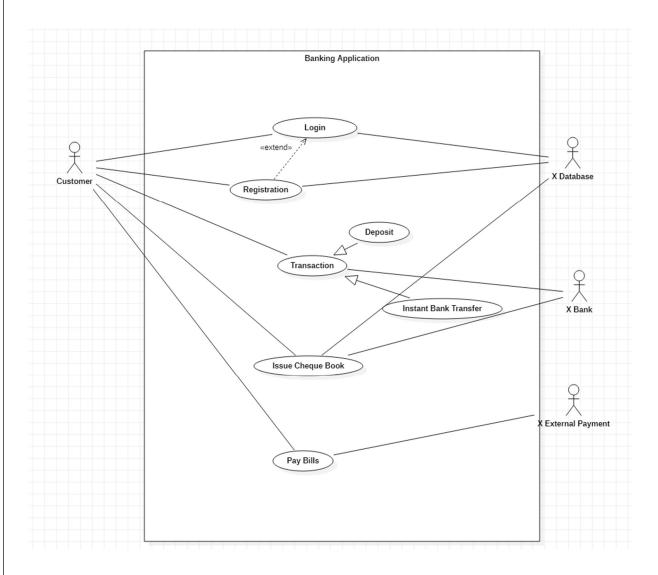
6th Semester E

I. Project Description

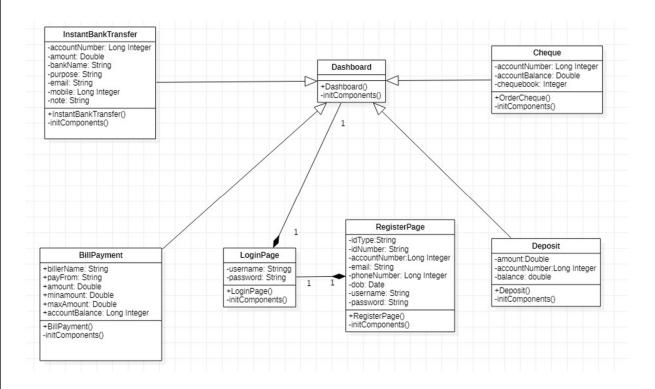
Poorani-R/Banking-System (github.com)

II. Analysis and Design Models

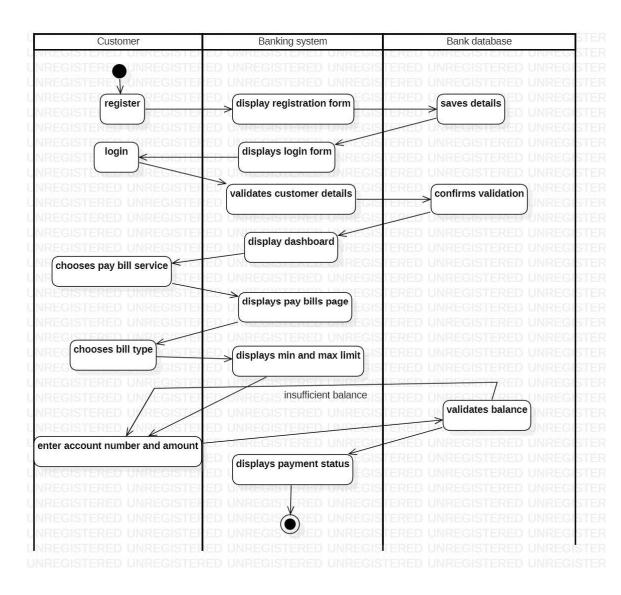
1. USE CASE DIAGRAM



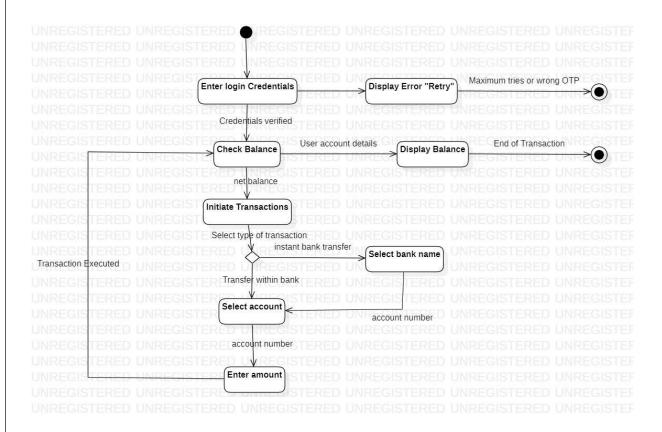
2. CLASS DIAGRAM



3. ACTIVITY DIAGRAM FOR PAY BILLS



4. ACTIVITY DIAGRAM FOR PAY BILLS



III. Tools and Frameworks Used

Framework used is Java Swing. Swing is a GUI widget toolkit in java, built on top of AWT (Abstract Windowing Toolkit) API.

Java Swing uses MVC (Model View Controller) Architecture. It separates the business logic from view by introducing a controller.

Database used is MYSQL (Workbench). MySQL connection is set by the JDBC Driver. It is a software component that enables the Java application to interact with the database.

IDE used is Apache NetBeans, which gives an easy platform for building the GUI of the application.

IV. Design Principles and Design Patterns Applied

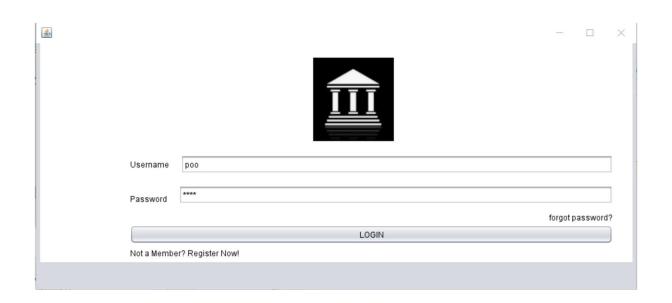
Design Pattern used is Façade.

Façade is a pattern which hides the complexity of the system and provides an interface to the client using which the client can access the system.

Dashboard serves as the single point to all the different functionalities (order cheque book, add balance, instant payment transfer, pay bills) of the banking system.

V. Application Screenshots (3-4 important pages)





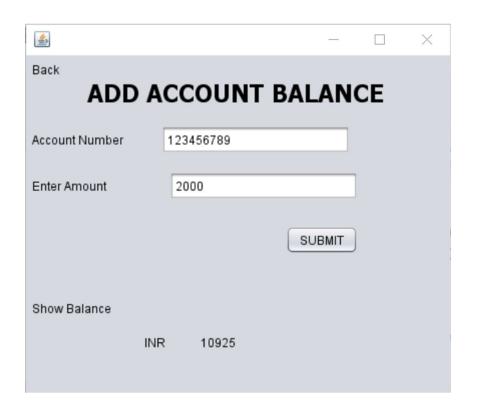
DASHBOARD

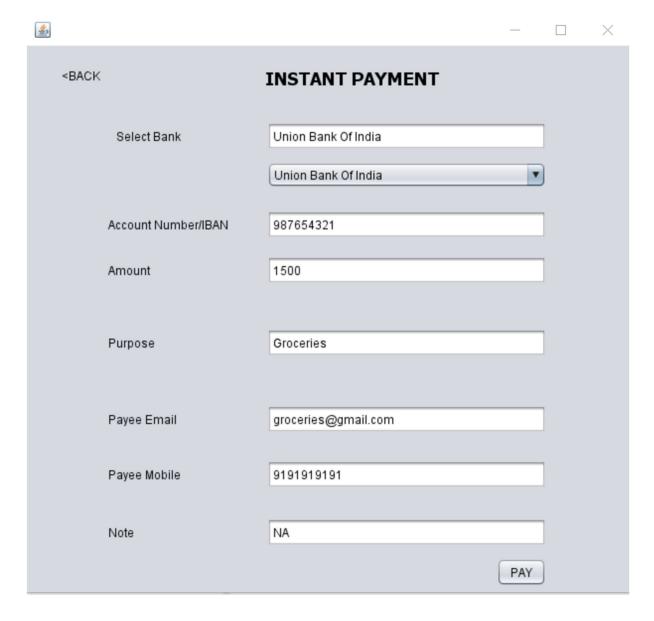
4

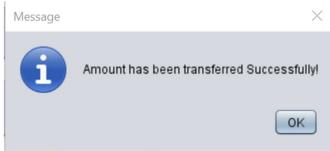
Account Balance Instant Payment Transfer

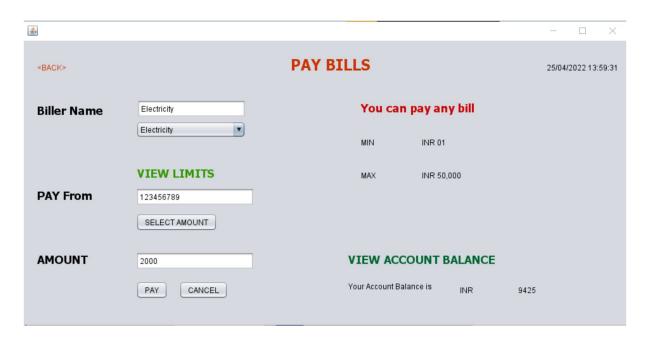
Bill Payment Order Cheque Book

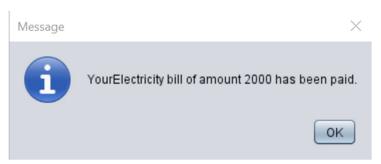
LOGOUT

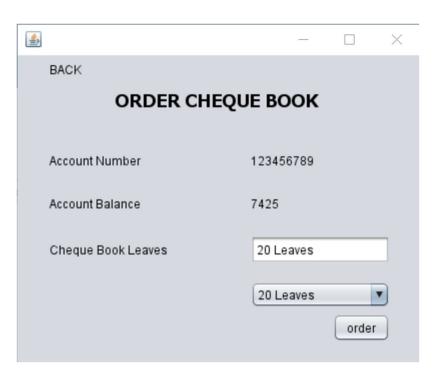


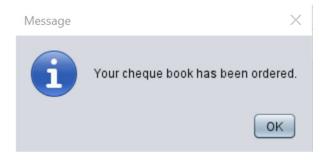












VI. Team member contributions

1. Pallavi Prabhu PES2UG19CS274

- **4** Transaction
- **♣** Deposit
- Instant Bank Transfer

2. Poorani R PES2UG19CS284

- **4** Authentication
- 4 Pay Bills
- ♣ Issue Cheque Book
- **4** Database

3. Preetha Narayanan PES2UG19CS294

- Registration
- 4 Login
- ♣ View Balance
- 4 Check Balance