



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 Application

By:

MANOJ KUMAR K - PES2UG19CS222

MAHANTESH M - PES2UG19CS210

NIKHIL V R - PES2UG19CS258

6th Semester D

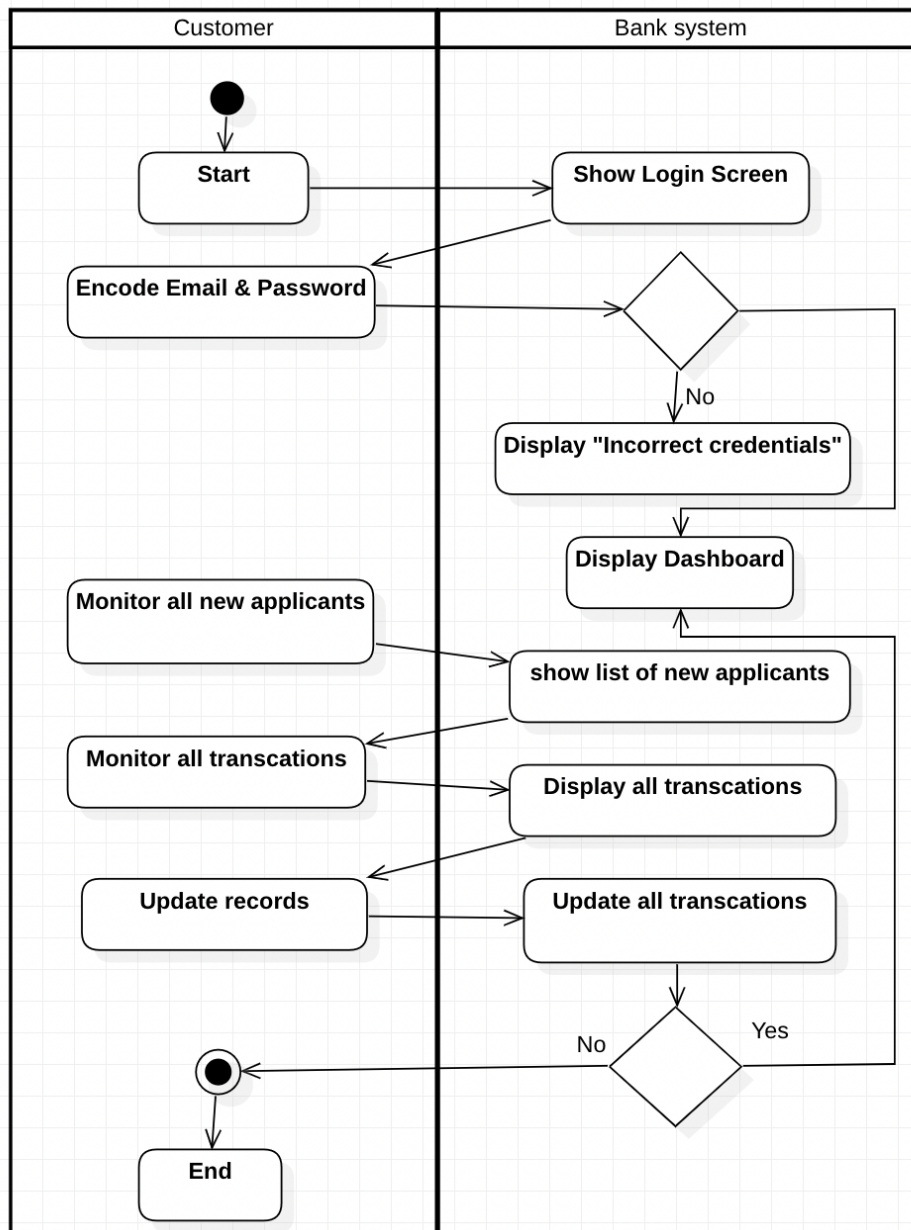
1. Project Description

This application provides banking applications using java. This app provides users with various banking transaction facilities.

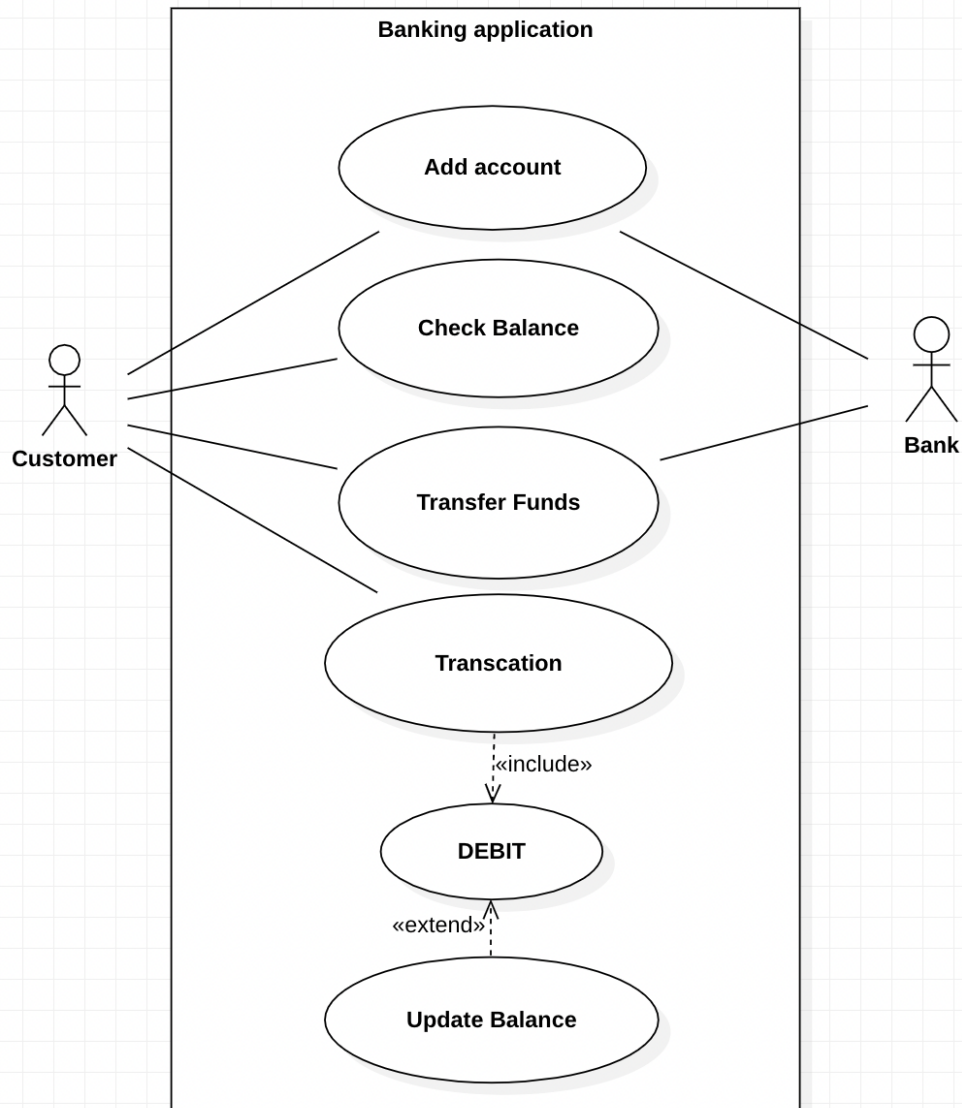
https://github.com/manojkumar402/OOAD_TEAM_17.git

2. Analysis and Design Models

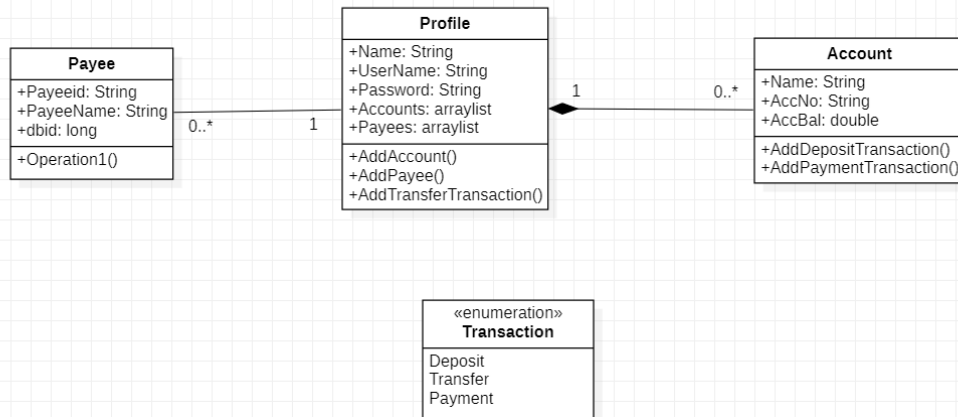
- Activity Diagram



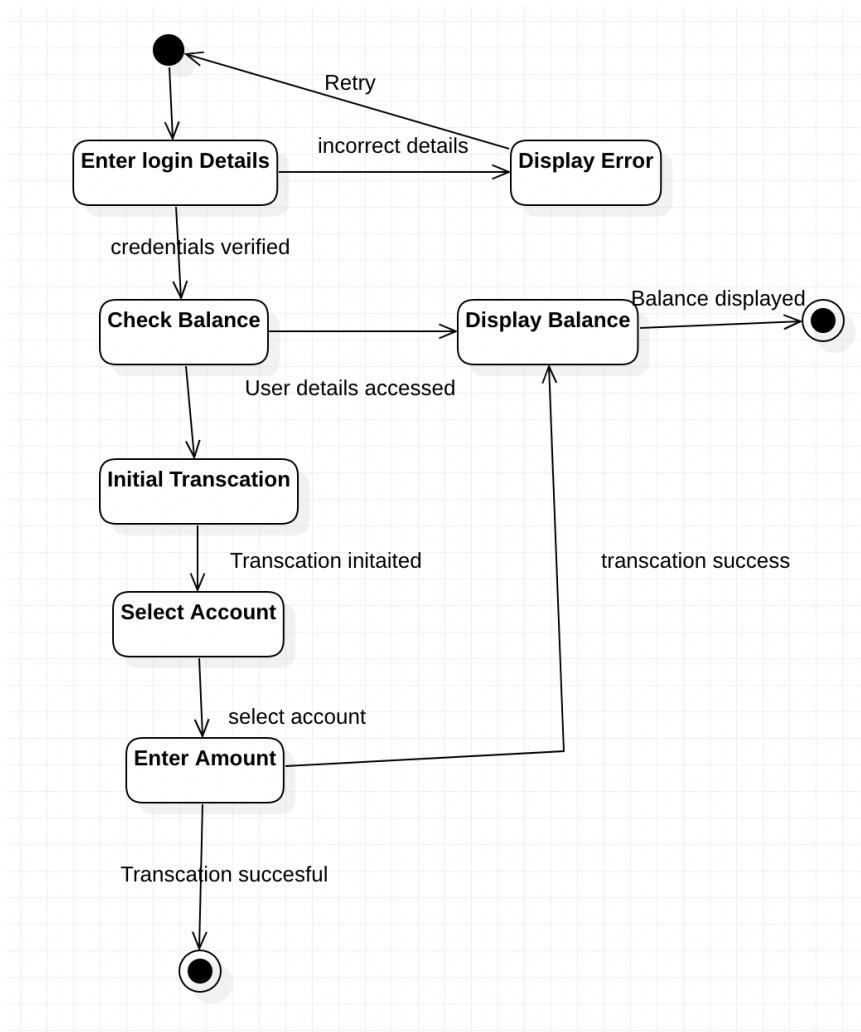
- Use Case Diagram



- Class Diagram



- State Diagram



3. Tools and Frameworks Used

Front-end: Android Studio

Database: SQLite database

Version Control: Git

Class, activity and state diagrams: StarUML

4. Design Principles and Design Patterns Applied

Design Pattern used:

- MVC architectural pattern

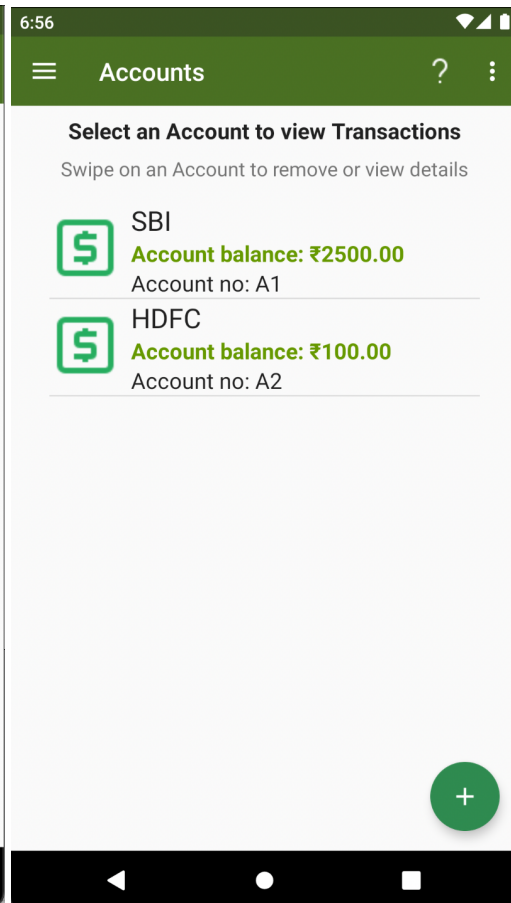
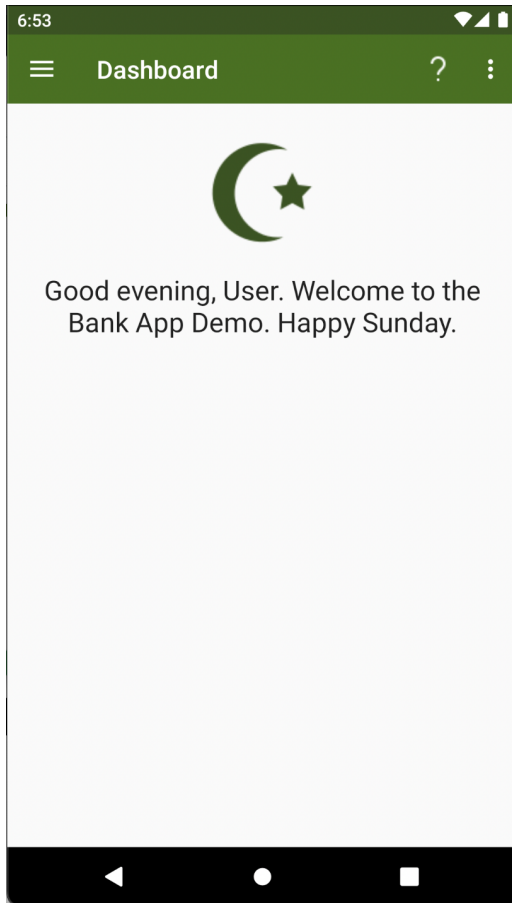
MVC is an architectural pattern that consists of 3 parts:

1. Model - Handles the data logic
2. View - It displays the information about the customer, bank accounts and transaction history from the model to the user.
3. Controller - It controls the data flow into a model and updates the view whenever data changes.

Design Principles used:

- Prototype - Creating different user accounts.
- Adapter - Used for transactions.
- Observer - To notify transaction changes to different classes.

5. Application Screenshots



6:16

Bank App Demo

?

:

Username

Password

☐ Remember Credentials

LOGIN

Don't have a profile?

CREATE A PROFILE

6:15

← Create Profile

?

:

First Name

Last Name

Country

Username

Password

Confirm Password

Create Profile

6:52

≡

Transfer

?

⋮

Select Sending Account

SBI (₹2000.00) ▾

Transfer Amount

Select Receiving Account

HDFC (₹100.00) ▾

Confirm Transfer

6:52

≡

Payment

?

⋮

Select an Account to Pay from

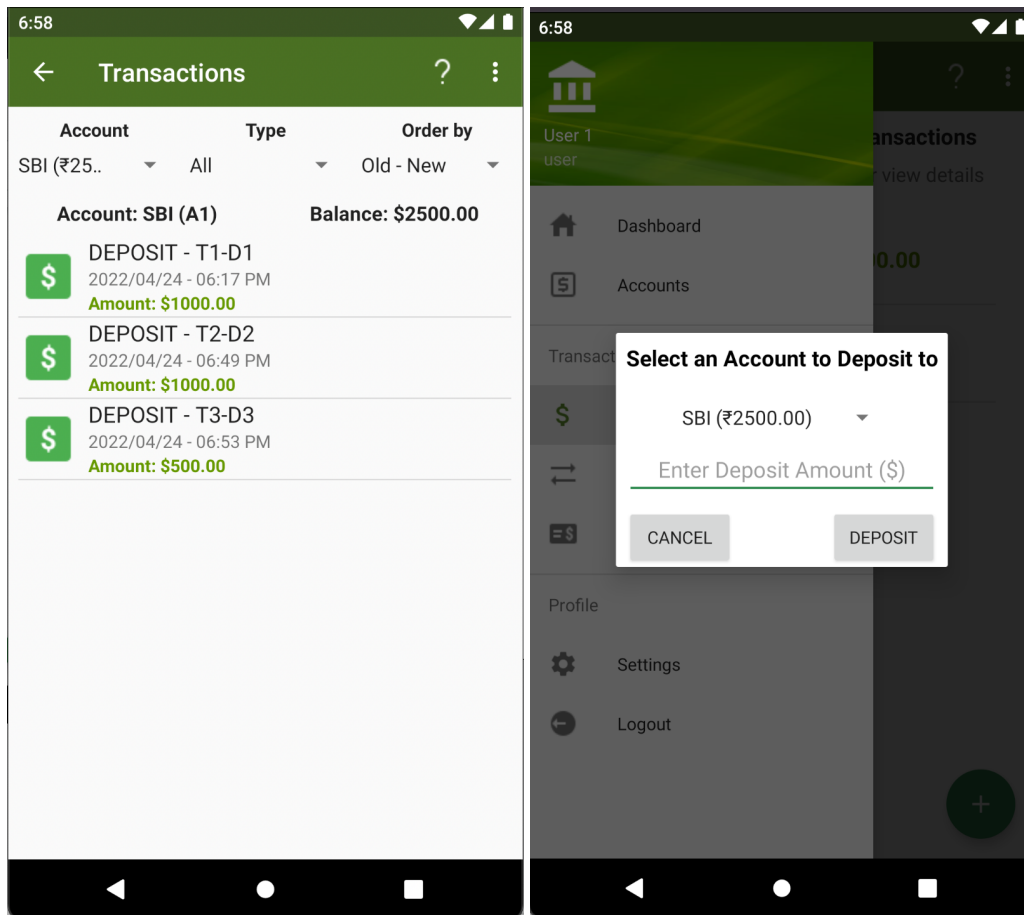
SBI (₹2000.00) ▾

Select a Payee

You do not have any Payees. Add one below

Add Payee

+



6. Team member contributions

| Team Members | Contributions |
|---------------|---|
| Manoj Kumar K | Implemented payee class, developing UI of the app, worked on state diagram and design pattern |
| Nikhil V R | Implemented Profile, Transaction class, worked on class diagram and design pattern. |
| MAHANTESH M | Implemented account class, worked on use case, activity |

| | |
|--|------------------------------|
| | diagrams and design pattern. |
|--|------------------------------|