Banking Project
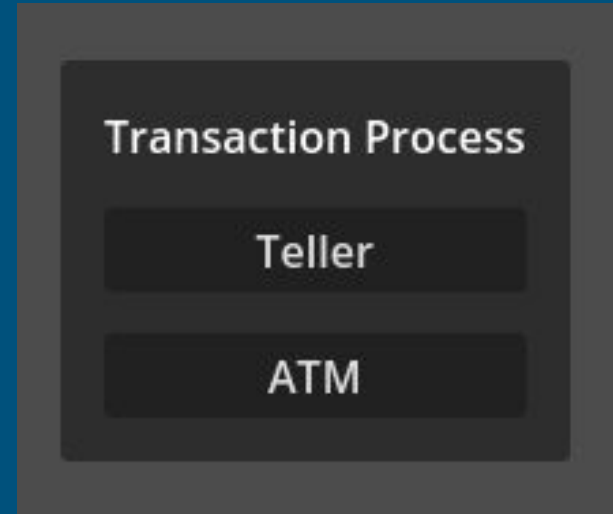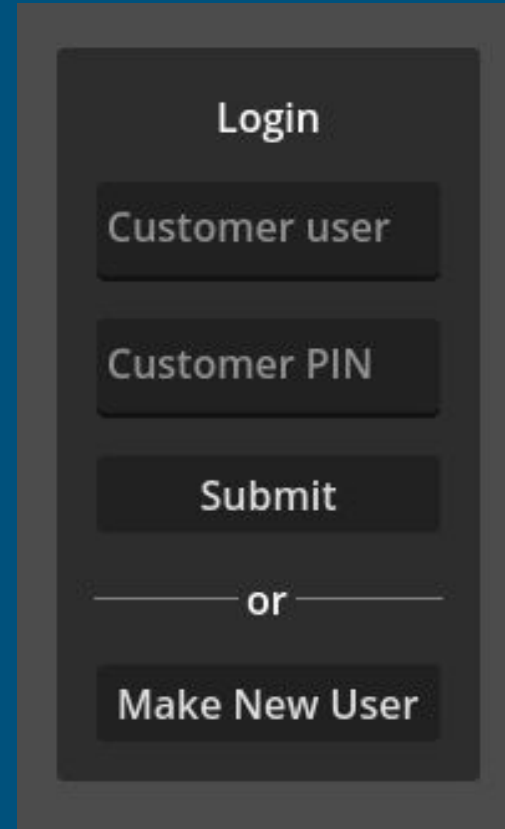
Team 6

Requirements 1

- Driver that transitions between user interfaces depending on user input

- 2 separate transaction processes (Teller or ATM) and an interface that allows the user to choose which
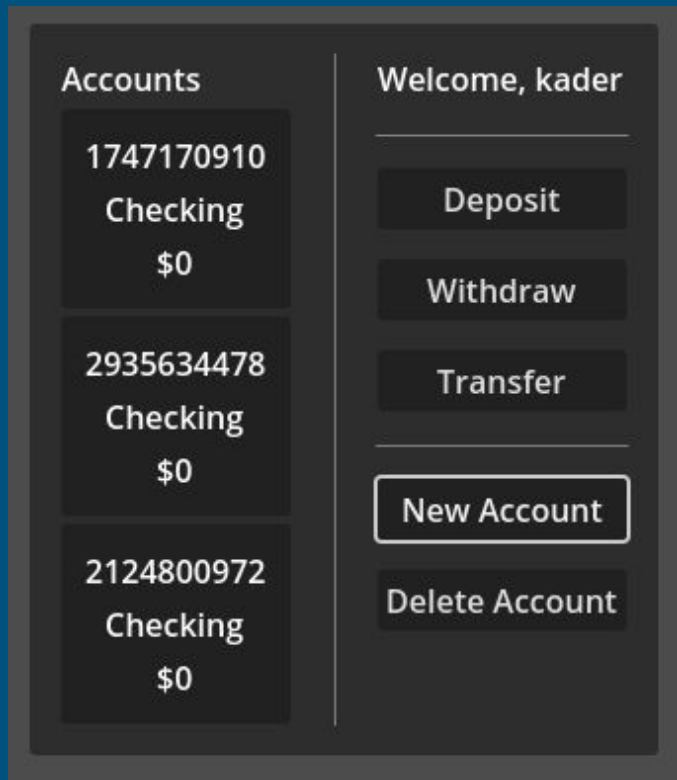
Requirements 2

- Users have unique username and password

- Users accounts are stored in text files

- Server that stores user account files

- Server client that retrieves user files from server

Requirements 3

- Interface with main controls (withdraw, deposit, transfer, new account) and display for accounts + account details

- Accounts have unique id, type, total balance (stored as double)

- Account information is stored in text files

- Server client that retrieves User's accounts from server upon sign-in

Classes

1. Driver
   - Static reference to User for access by other classes
   - Transaction process flag (Teller or ATM) - Uses enum instead of bool so more states can be added
   - Main method
   - Methods for state transitions

2. User
   - Unique String username, String PIN (for signing in), list of accounts
   - Methods for main controls (withdraw, deposit, transfer, etc) - The User is responsible for conveying changes to accounts (Accounts don't act they're acted upon)

Classes

3. Account

   - String for unique ID, String for type (checkings or savings), double for total balance
   - Methods for adding and removing from total

4. Server Client

   - Client socket
   - Methods for sending and receiving information from Server
   - Methods for logging in and making new Users (where User is initialized)

5. Server

   - Server socket
   - Methods for sending and receiving information
   - Methods for saving and loading files from storage