

Banking-Management-System

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EG-301P - Operating Systems Lab

Objective

This project aims to model a banking system which supports three types of users - normal, joint and admin. Functionalities such as authentication, deposit and withdrawal are provided to users via CLI. A concurrent server is used to facilitate multiple clients at once. The admin can add/destroy/modify users.

Functionalities

User :

- Login
- Deposit
- Withdraw
- Balance enquiry
- Password change
- View details
- Exit

Admin :

- Add user
- Delete user
- Modify user
- Search user

Structure

The 'include' directory consists of the header files. The 'src' directory consists of the source code. The code is divided into three files: client, server and database. A seed file is used to initialise the database with three accounts; one of each type. The database file handles read/write calls as per client request, directed from the server. The server file takes in client response and triggers required action. Basically, the client file acts as the 'View', the server file acts as the 'Controller', and the database file acts as the 'Model'.

Code Execution

Building

Run `make` to build binaries. Run `make clean` to clean up

Seed Database

Run `make seed` to create database and seed it. Take a note of the output to see the user ids and passwords.

Start Server

Run `make server` to start the server

Start Client

Run `make client` to start the client