Bank

Description

The Bank app is a console-based application that simulates banking operations. A customer can apply for an account, view their balance, and make withdrawals and deposits. An employee can aprove or deny accounts and view account balances for their customers.

Purpose

We want to see that you can meet deadlines and that you can code. You are expected to complete the following requirements and give a 5 minute presentation of your project to our QC team.

Requirements

1. Functionality should reflect the below user stories.
2. Data is stored in a database.
3. A custom stored procedure is called to perform some portion of the functionality.
4. Data Access is performed through the use of JDBC in a data layer consisting of Data Access Objects.
5. All input is received using the java.util.Scanner class.
6. Log4j is implemented to log events to a file.
7. A minimum of one (1) JUnit test is written to test some functionality.

User Stories

* As a user, I can register for a customer account.
* As a user (customer or employee), I can login.
* As a customer, I can apply for a new bank account with a starting balance.
* As a customer, I can view the balance of a specific account.
* As a customer, I can make a withdrawal or deposit to a specific account.
* As the system, I reject invalid transactions.
  + Ex:
    - A withdrawal that would result in a negative balance.
    - A deposit or withdrawal of negative money.
* As an employee, I can approve or reject an account.
* As an employee, I can view a customer's bank accounts.
* As a customer, I can post a money transfer to another account.
* As a customer, I can accept a money transfer from another account.
* A an employee, I can view a log of all transactions.