## Banking App Pt.1

DUE: Nov 9 @ 10am EST (9am central)

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 approve 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.

Requirements:

* Build the application as a Maven project using Java 8
* All interaction with the user should be done through the console using the Scanner class
* Customers of the bank should be able to register with a username and password, and apply to open an account.
  + Customers should be able to apply for joint accounts
* Once the account is open, customers should be able to withdraw, deposit, and transfer funds between accounts
  + All basic validation should be done, such as trying to input negative amounts, overdrawing from accounts etc.
* Employees of the bank should be able to view all of their customers information
  + This includes, account information
  + Account balances
  + Personal information
* Employees should be able to approve/deny open applications for accounts
* Bank admins should be able to view and edit all accounts
  + This includes:
  + Approving/denying accounts
  + withdrawing, depositing, transferring from all accounts
  + canceling accounts
* All information should be persisted using text files and serialization via Object Input/Output Stream
* 100% test coverage is expected using J-Unit
  + You should be using TDD
* Logging should be accomplished using Log4J
  + All transactions should be logged