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CS 273 HW 05

PR5\_Banking: Part 1

1. This software will let the user manage a number of accounts in a bank. These accounts will hold information; including the balance of an account for a customer, the type of account that customer has, a list of transactions involving an account (linked with that specific account), customer information (including name, age, address, phone number, and type of customer). With this software, you will be able to create new accounts, manager balances in accounts (make withdrawals and deposits), and make other transactions within an account.

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| Use Cases for navigating the main menu | |
| Users Action | Systems Response |
| 1. New customer wants to create an account |  |
|  | Create new customer with either checking or savings account |
| 1. Customer wants to make a deposit |  |
|  | Increase amount of balance of specified customer account |
| 1. Customer wants to withdraw from account |  |
|  | Decrease specified accounts balance by amount given by customer |
| 1. Exit program |  |
|  | Exits program and closes down |

1. Add\_Account(Banking\_Application.cpp)(for new customers)

Ask for name of customer

Ask for type of account to open

Get more customer info(Address, Phone#, age, type of customer)

Create account

Make\_deposit

Ask for account holder id

Ask for amount to be deposited

Increase balance of account by specified amount

Record transaction in vector of transactions

Make\_withdrawl

Ask for account holder id

Ask for amount to be withdrawn

Check to see if there is enough in the account to be withdrawn

Decrease balance of account by specified amount

If withdraw is larger than balance charge overdraft fee

Add\_account(Bank.h)(for returning customers)

Ask for customer id

Ask what type of account they want to open

Add account to customer information

Get\_account

Ask for name of account holder (with id) and desired account

Find account(s) under that account holder

Find specific account

1. Each customer with get an ID number and every time they open a new account they will get a account ID for that account. All customers that use the bank will have their own profile that hold all of their information(including account numbers tied to their account and their personal customer id), these profiles will be stored in a vector, that can be searched by name. Customers can only access accounts tied to them, so any accounts under their name will be stored in a vector that is accessible through their account only.