systemy

## FrontEnd

- tsfQueue: LinkedListloggedOut: boolean
- accountListFileLocation: String
- transactionSummaryFileLocation: String
- + main(): void
  startUp(): void
  login(): void
  logout(): void
- createAcct(agent:boolean): void
- deleteacct(agent:boolean): void
- deposit(): void
- withdraw(agent:boolean): void
- transfer(): void
- isAllDigits(number:String): boolean
- accountNumberValid(number:String): boolean
- accountNumberExists(Num:String): boolean
- accountNameValid(Name:String): boolean
- writeTransactionsToSummaryFile(fileName:String): void

Team Name: YES-MEN

# **Method Descriptions**

#### main

This method takes in both the accountListFile location and transacionSummaryFile location via parameters, and calls the startUp function which would begin the session.

# startUp

This method acts as a welcome screen, requests for initial user commands and keeps on running until a system logout.

## login

This method starts a front-end session, asks for a type of session, and assigns the agent variable a Boolean value which will be used in a variety of functions to check the session mode.

# logout

This method ends the front-end session, writes "EOS" to the transaction summary file and directs user to the welcome screen afterwards where a new session can be started

#### createAcct

This method validates the mode the user is in and the account number and name before creating a new account using user input and adding the transaction code to tsfQueue.

## deleteAcct

This method validates the mode the user is in and the account number and name before deleting an existing account and adding the transaction code to tsfQueue.

#### deposit

This method validates the account number and amount being deposited before depositing money into an account and adding the transaction code to tsfQueue.

## withdraw

This method validates the account number and amount being withdrawed before withdrawing money into an account and adding the transaction code to tsfQueue.

#### transfer

This method validates both account numbers and amount being transferred before transferring money into the second account and adding the transaction code to tsfQueue.

### isAllDigits

This method is a common helper function that is called by multiple larger methods that verifies that the account number entered consists only of decimal digits.

Team Name: YES-MEN

# **Method Descriptions**

# accountNumberValid

This method is a common helper function that is called by multiple larger methods that verifies the account number is exactly seven decimal digits not beginning with 0.

## accountNameValid

This method is a common helper function that is called by multiple larger methods that verifies the string follows all rules and constraints for account names such as no leading or trailing spaces.

# writeTransactionsToSummaryFile

This method writes out every transaction that has been made in the session day to the transaction summary file by emptying out tsfQueue.