**CISC 327: Assignment 4 Design Document**

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| **Method** | **Purpose** |
| masterListFromFile(file) | This method takes in the file name as an argument and imports the master account file into a list that allows it to be searched and manipulated. |
| transactionListfromFile(file) | This function takes in the daily transaction summary file name as an argument to import the file’s content. It places the file’s content in a list so it is easy to read each transaction and find the appropriate action. |
| mergeTSF(file) | This function takes in a folder that contains all the daily transaction files and merges them into one file. |
| cleanup(master) | This function takes in the master account list and writes the updated version of the master account list to the file. |
| actions(master, transactions) | This function takes in the master account list and the list of transactions and runs the appropriate function based on the action (createacct, deleteacct, deposit, etc) |
| createacct\_action(master, line) | This function creates a new account by placing the account in order by account number in the master account file. |
| deleteacct\_action(master, line) | This function sets the balance of an account in the master account list to zero. |
| deposit\_action(master, transaction) | This function adds a specified amount of money to the account in the master account list. |
| withdraw\_action(master, transaction) | This function removes a specified amount of money to the account in the master account list. |
| transfer\_action(master, transaction) | This function transfers a specified amount of money from one account to the another. |
| processTransactions(masterAccountList, transactionList) | This function iterates through the transactions and updates the master account list accordingly. |
| main() | This driver function first runs **mergeTSF** to merge all the transaction files and then runs both **transactionListFromFile** and **masterListFromFile** to receive a list of the tranasctions and accounts. After this, it runs **actions** to read the transaction list and manipulate the master account list accordingly. |

Diagram:

A screenshot of a cell phone

Description automatically generated