

Design Document

Connor Crowe - 20009994
Jordan Mack - 20005220
Michael Briggs - 20013906
Sasanka Wickramasinghe - 10192504
CMPE 327
Steven Ding
2019-11-23

For the Backend office, we incorporated one class, Account, with one method. This class was used in order to create Account objects for each account that was taken in from the MasterAccounts file. This made it convenient and simple for storing the information of each account since this allowed us to store objects in a list. The attributes of each object could then be accessed using their respective index.

Class	Description
Account	Used to store the information of MasterAccounts file. Class attributes include accountNumber, balance, and name

To implement many of the features of the Backend office, numerous methods were needed to read files, access information, write to files, etc. These methods are shown below.

Method	Class	Description
toString	Account	Returns string representation of object
mergeFiles	-	Merges any number of Transaction Summary files from the frontend to one Merged Transaction file
parseMasterAccounts	-	Reads the previous session MasterAccount file and stores into list
parseTransactions	-	Reads the merged Transaction Summary file and stores each line into a single list
deposit	-	Deposits money to account by adding specified amount to existing balance
withdraw	-	Withdraws money from the account by subtracting specified amount from existing balance
transfer	-	Transfers money from the “from” account to the “to” account
createacct	-	Creates an account by adding new account info to the MasterAccountList
deleteacct	-	Deletes an account by removing specified account and its information from MasterAccountList
main	-	Reads the input files and calls the required functions above to perform transactions and save session data to MasterAccountList and ValidAccountsList