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| **Method or Class** | **Description** |
| Class Account | Stores all account information. |
| Class Transaction | Stores all information about a transaction. |
| Class FileParser | Parse the files and puts them into data structures to easily manipulate them. Concatenates multiple transaction files into one and puts it into a list. |
| Map<String, ArrayList<Account>> parseMaster(String masterFile) | Read in master accounts file, parses it and return the accounts in the file as a map. |
| List<Transaction> parseTrans | Read in a list of transactions from a file, parses them and returns them as a list. |
| void concatTrans(List<String> transFiles) | Create one transaction file by combining existing transaction files. |
| Class FileUpdater | Update master accounts file. |
| void fileWriter(Map<String, ArrayList<Account>> accounts) | Writes new master account file. |
| String createAccount(String name, int num, boolean stat, double bal, int trans, boolean plan) | Using accounts created during the preceding day create account strings, which will be added to the master accounts file. |
| Class TransactionCalculator | Handles and applies transactions to the specified accounts. |
| void setAccountTable(Map<String, ArrayList<Account>> account\_table) | Gives known accounts to the calculator for reference. |
| Map<String, ArrayList<Account>> getAccountTable() | Retrieves account table. |
| void applyTransactions(Vector<Transaction> transactions) | Selected the appropriate transaction handler for the selected transaction. |
| Account getAccount(Transaction transaction) | Find specified account in list. |
| double getTransactionFee(Account account) | Based on the type of account the transaction is being performed on give specified transaction fees. |
| boolean accountNumberExists(int number) | Check if account number exist in the list of accounts. |
| void handleLogin(Vector<Transaction> transactions) | Processes the 'login' transaction. |
| void handleLogout(Vector<Transaction> transactions) | Processes the 'logout' transaction. |
| void handleWithdrawal(Vector<Transaction> transactions) | Perform Withdrawal transaction to the specified account. |
| void handleTransfer(Vector<Transaction> transactions) | Perform Transfer transaction to the specified accounts (sender and receiver). |
| void handlePaybill(Vector<Transaction> transactions) | Perform Pay bill transaction to the specified account. |
| void handleDeposit(Vector<Transaction> transactions) | Perform Deposit transaction to the specified account. |
| void handleChangePlan(Vector<Transaction> transactions) | Perform Change Plan transaction to the specified account. |
| void handleDelete(Vector<Transaction> transactions) | Remove the specified account from the account list. |
| void handleCreate(Vector<Transaction> transactions) | Add new account the account list if the account number is not already in use. |
| void handleDisable(Vector<Transaction> transactions) | If the account is not already disabled, disable the specified account. |
| void handleEnable(Vector<Transaction> transactions) | If the account is not already enabled, enable the specified account. |
| Class Backend |  |
| static void main(String[] args) | The program will take a master accounts file and one or many transaction files and then create a new master accounts file with the transactions applied to it from the old master accounts file |