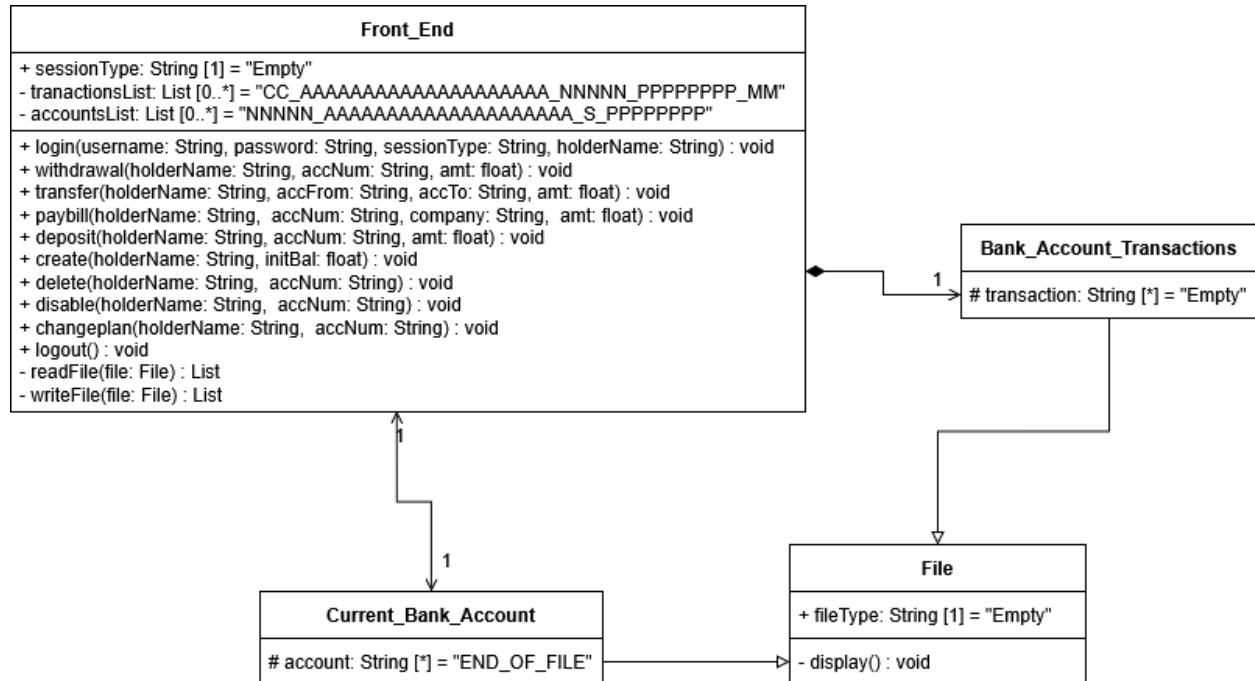# Bank System Design Document

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UML Diagram:

Intentions:

Classes:

Front End: Processes user input and gives output in the form of lines of text and handles the reading and writing of the Current Bank Accounts and Bank Account Transaction files.

File: Parent class for different file types to share variables and methods.

Bank_Account_Transactions: File that contains the list of transactions, to be written out at the end of a session in the required format.

Current_Bank_Account: File that contains the list of the accounts currently within the bank system in the required format.

Methods:

login: Starts a front end session of the bank account system.

withdrawal: Withdraws money from the specified bank account.

transfer: Transfers a specified amount of money from one account to another.

paybill: Transfers a specified amount of money from one account to one of the accepted companies required by the client.

deposit: Deposits a specified amount of money into the specified account.

create: Creates an account under the given holder's name with a specified initial balance and adds it to the current accounts file.

delete: Removes an account of the given holder's name and account number and removes it from the current accounts file.

disable: Sets a given account's status to disabled and updates its status in the current accounts file.

changeplan: Changes the given account's payment plan from student to non-student and updates it in the current accounts file.

logout: Ends a front end session of the bank account system, writing out a list of the handled transactions to the bank account transactions file.

readfile: Reads the given file into the system.

writefile: Writes to the given file to update information in the file or to save the list of transactions of a single session on logout.

display: Displays the contents of the given file.