





Transaction
<ul style="list-style-type: none"> - money: double - receivingAccount: Account - sendingAccount: Account - final transactionTime: Date ~ isUndo: boolean
<ul style="list-style-type: none"> + Transaction(money: double, receiving: Account, sending: Account, date: Date) + Transaction(money: double, Account: Account, isDeposit: boolean, date: Date) ~ undo(): void ~ getMoney(): double ~ getReceivingAccount(): Account ~ getSendingAccount(): Account + toString(): String ~ show(): String

ATM
<ul style="list-style-type: none"> ~ <u>cash5</u>: int ~ <u>cash10</u>: int ~ <u>cash 20</u>: int ~ <u>cash 50</u>: int ~ <u>total</u>: int ~ <u>date</u>: Date ~ <u>format</u>: SimpleDateFormat - <u>ATM</u>: ATM
<ul style="list-style-type: none"> - ATM() + <u>getATM</u>(): ATM ~ <u>checkATMBalance</u>(): boolean ~ <u>writeFile</u>(): void - <u>withdrawCash</u>(money: int): int[] ~ <u>withdraw</u>(money: int): void ~ <u>deposit</u>(cashFive: int, cashTen: int, cashTwenty: int, cashFifty: int): void

Main Class

Simulator
<ul style="list-style-type: none"> - <u>setDate</u>(): void - <u>setSystemDate</u>(): void - <u>initialize</u>(): void - <u>login</u>(): Person - <u>writeFile</u>(): void + <u>__main__</u>(args: String[]): void

Helper Class

ReadFile
~ <u>readFile</u> (filename: String): ArrayList<String> ~ <u>readFolder</u> (folderName: String): ArrayList<ArrayList<String>>

WriteFile
~ <u>write</u> (content: String, filename: String): void ~ <u>clearInfo</u> (fileName: String): void

Login
~ <u>loginPass</u> (username: String, password: String): Person

Data Class

Accounts
~ <u>accounts</u> : ArrayList<Account>
- <u>addAccount</u> (a: Account): void ~ <u>constructAccount</u> (accountInfo: String[], owner: Customer): void ~ <u>accountFinder</u> (accNum: String): Account ~ <u>updateTransaction</u> (): void - <u>checkDuplication</u> (acc: Account): boolean ~ <u>depositAll</u> (): void

Users
~ <u>manager</u> : Manager ~ <u>folder</u> : ArrayList<ArrayList<String>> ~ <u>customers</u> : ArrayList<Customer>
~ <u>constructManager</u> (): void - <u>constructCustomer</u> (fileContent: ArrayList<String>): void - <u>addCustomer</u> (customer: Customer): void ~ <u>getFolder</u> (): ArrayList<ArrayList<String>> ~ <u>getCustomerList</u> (): void ~ <u>customerFinder</u> (username: String): Customer