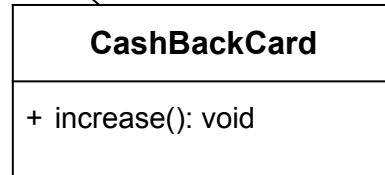
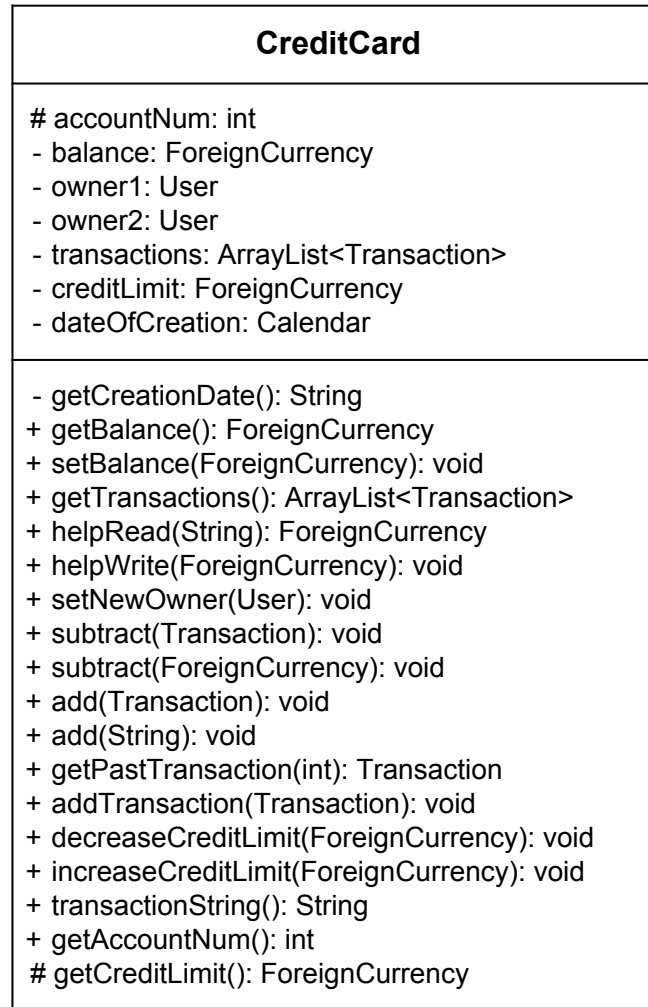
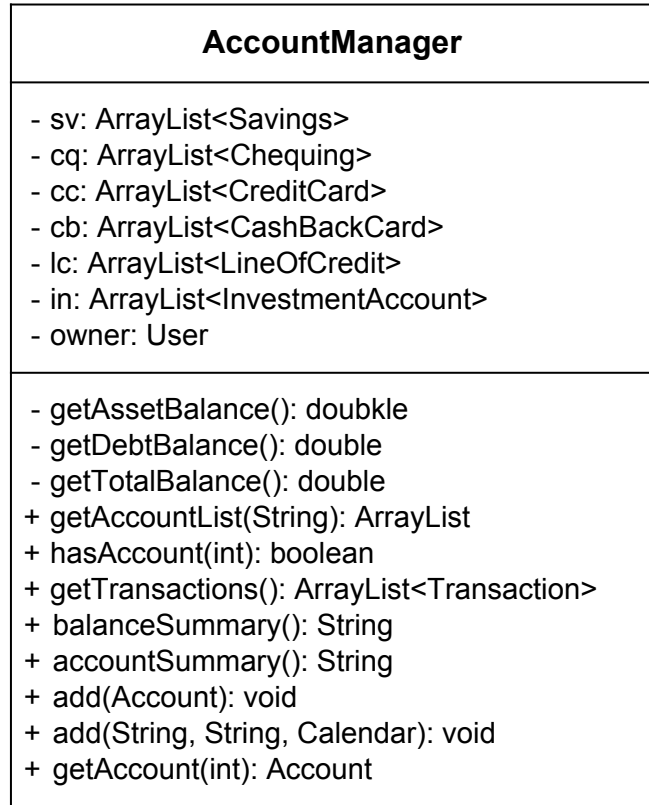


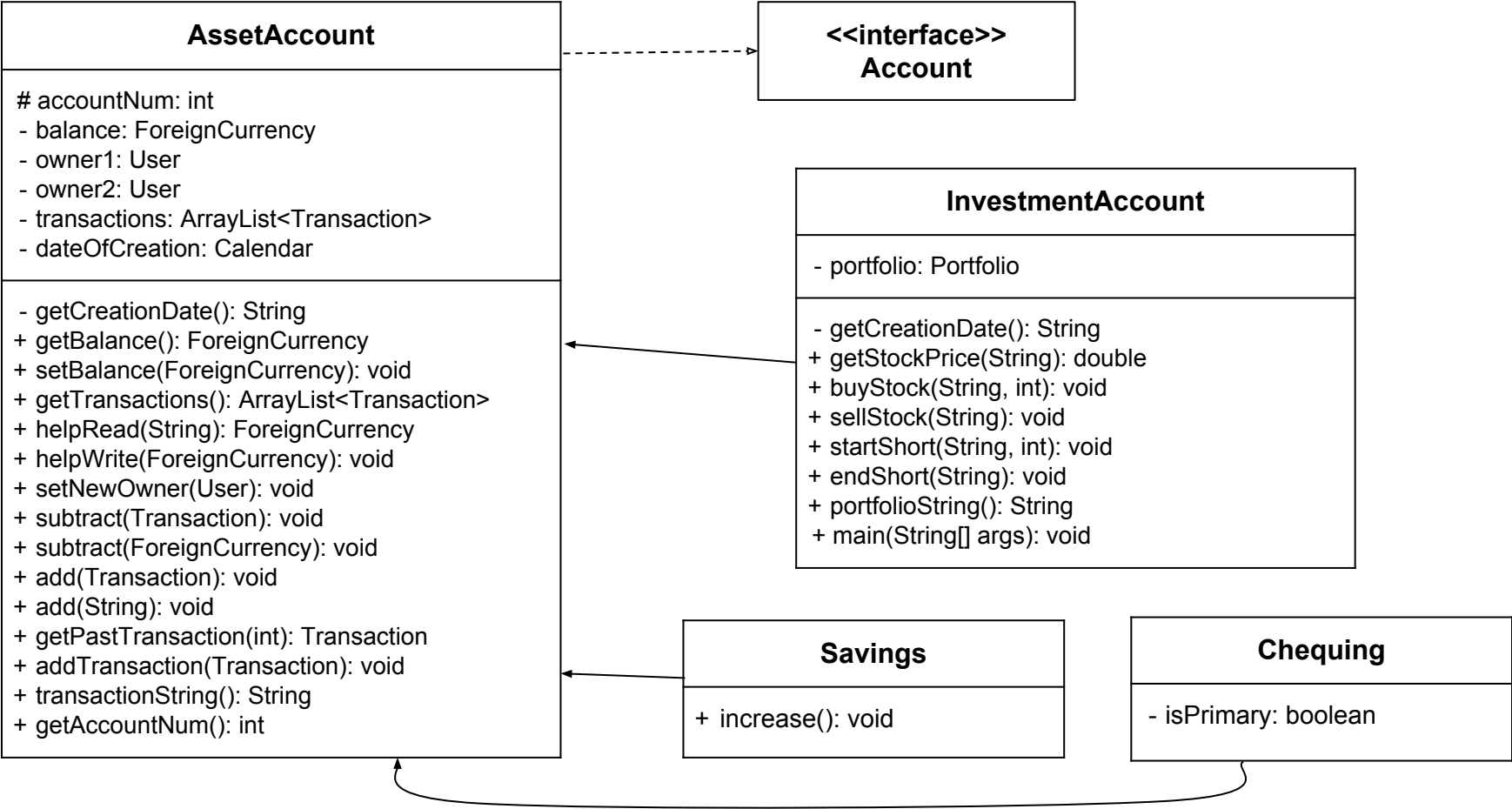
UML DIAGRAMS

group_0308

package phase2.Accounts



package phase2.Accounts



package phase2.Data

DataSaver

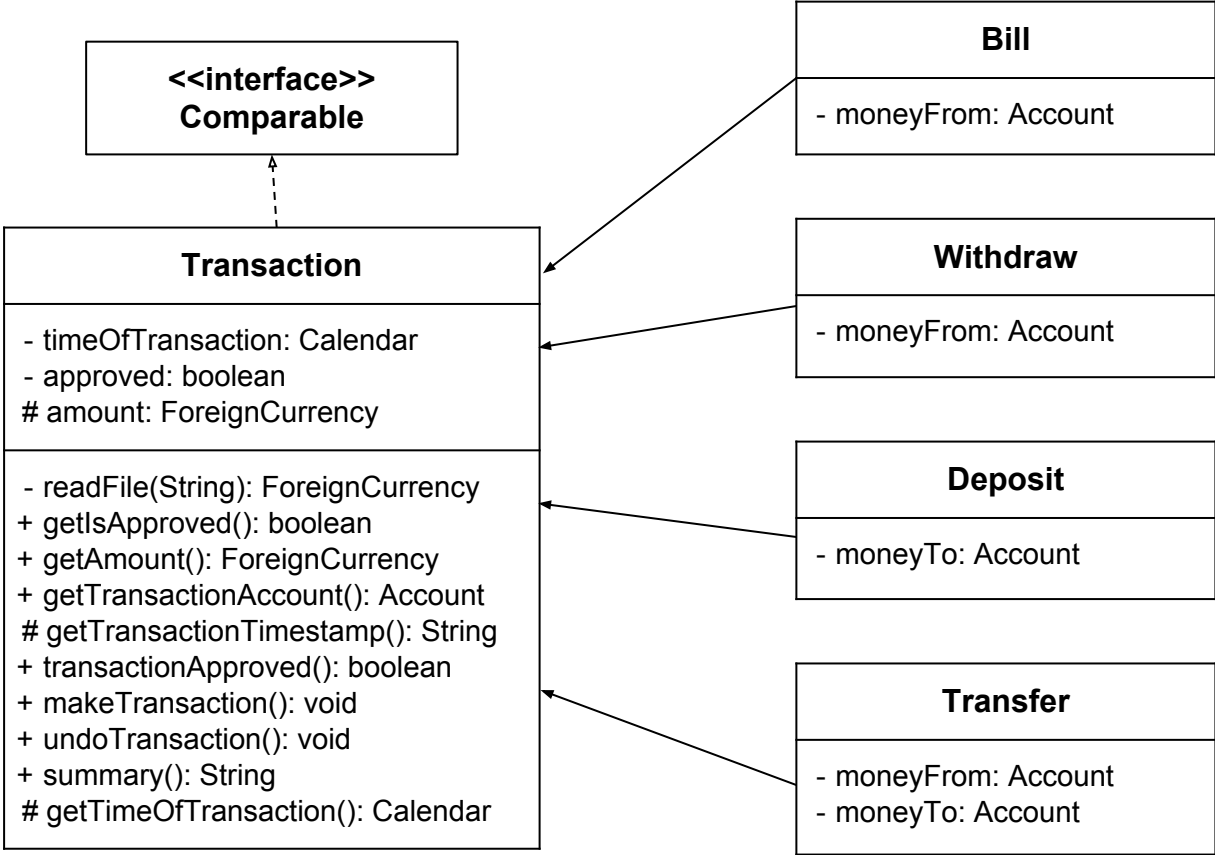
- + writeATMData(): void
- + writeAllUsers(): void
- writeUserData(User): void
- appendName(User): void
- writeSavingAccount(FileWriter, Savings): void
- writeAllSavings(FileWriter, User): void
- writeChequingAccount(FileWriter, Chequing): void
- writeAllChequing(FileWriter, User): void
- writeCreditCardAccount(FileWriter, CreditCard): void
- writeAllCreditCard(FileWriter, User): void
- writeLineOfCreditAccount(FileWriter, LineOfCredit): void
- writeAllLineOfCredit(FileWriter, User): void
- writeCashBackCardAccount(FileWriter, CashBackCard): void
- writeAllCashBackCard(FileWriter, User): void
- writeInvestmentAccount(FileWriter, InvestmentAccount): void
- writeAllInvestment(FileWriter, User): void
- + writeAllRequests(): void
- writeAllAccountRequests(): void
- writeAllUndoRequests(): void
- writeAllUserRequests(): void
- + writeAll(): void
- + main(String[] args): void

DataReader

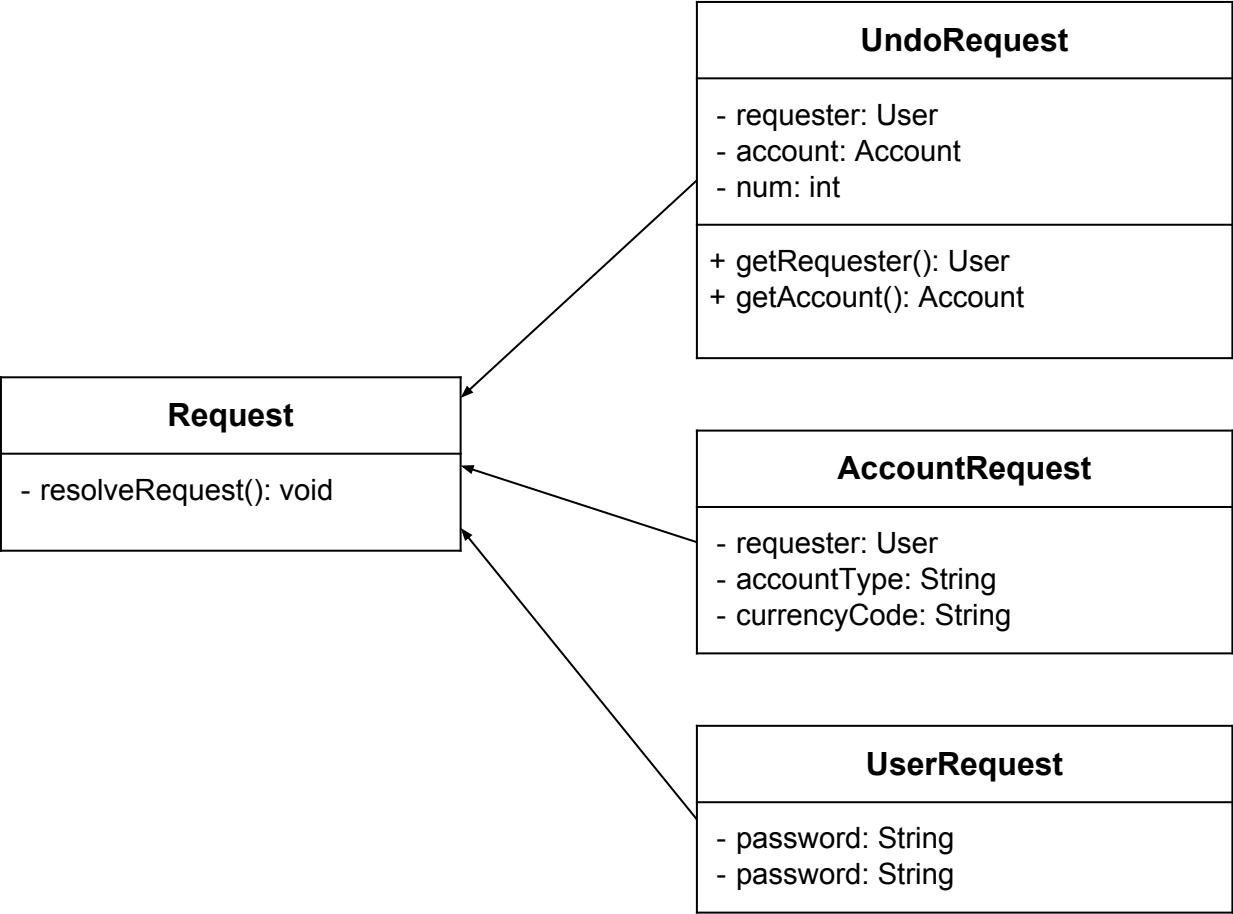
- types: String[]

- + readAll(): void
- + readAllUserData(): void
- readUserData(String): void
- initializeUser(String): User
- addAccounts(String, User, int, BufferedReader): void
- addAllAccounts(String, User, BufferedReader): void
- initializeAccount(String, User, String): Account
- getCorrectCalendar(String[]): GregorianCalendar
- addAllTransactions(String, Account): void
- readTransaction(String[], Account): void
- readTransfer(String[], Account): void
- readOtherTransaction(String[], Account): void
- + readATMData(): void
- loadCash(String): void
- setTime(String): void
- + readAllRequests(): void
- readRequest(String): void
- addUserRequest(String[]): void
- addAccountRequest(String[]): void
- addUndoRequest(String[]): void
- + main(String[] args): void

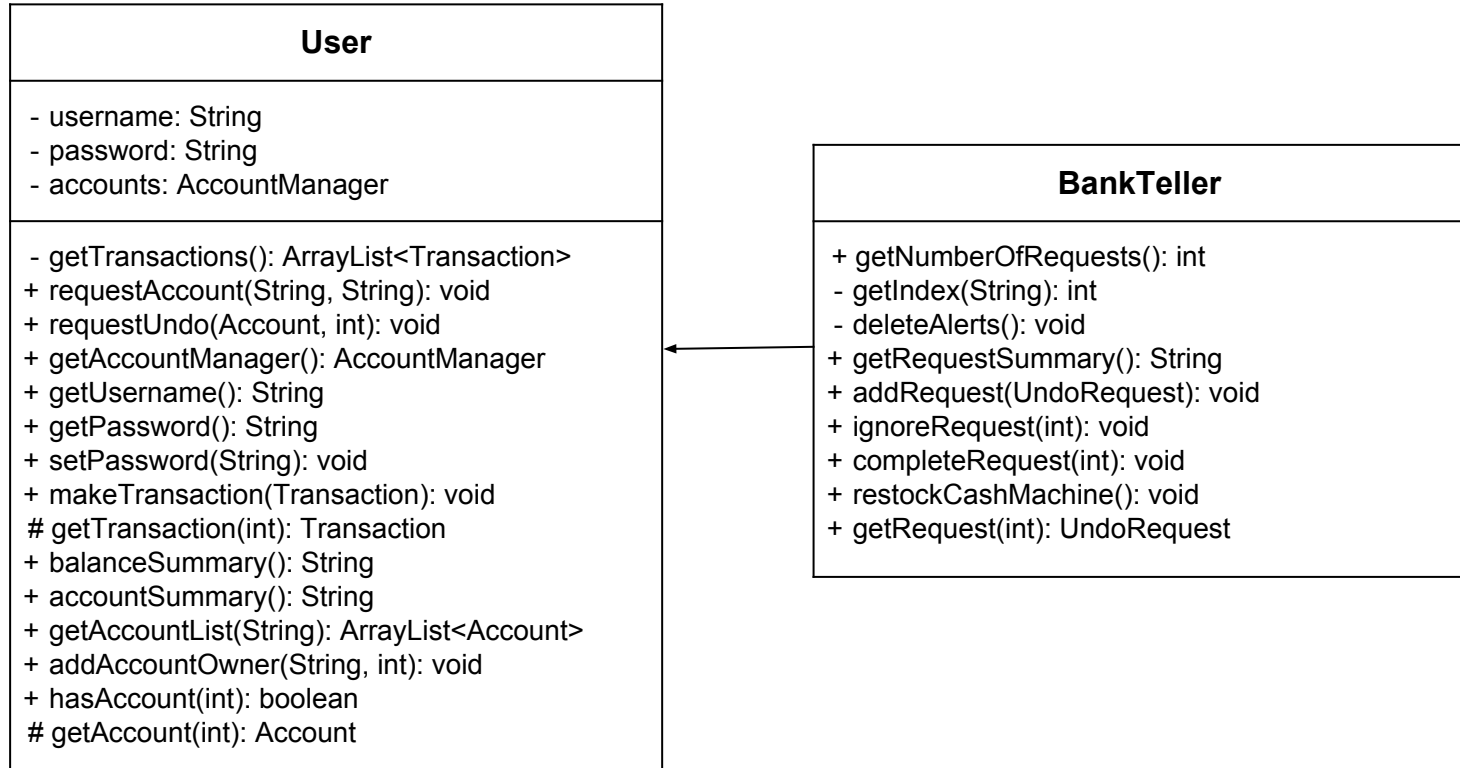
package phase2.Transactions



package phase2.Request



package phase2.People

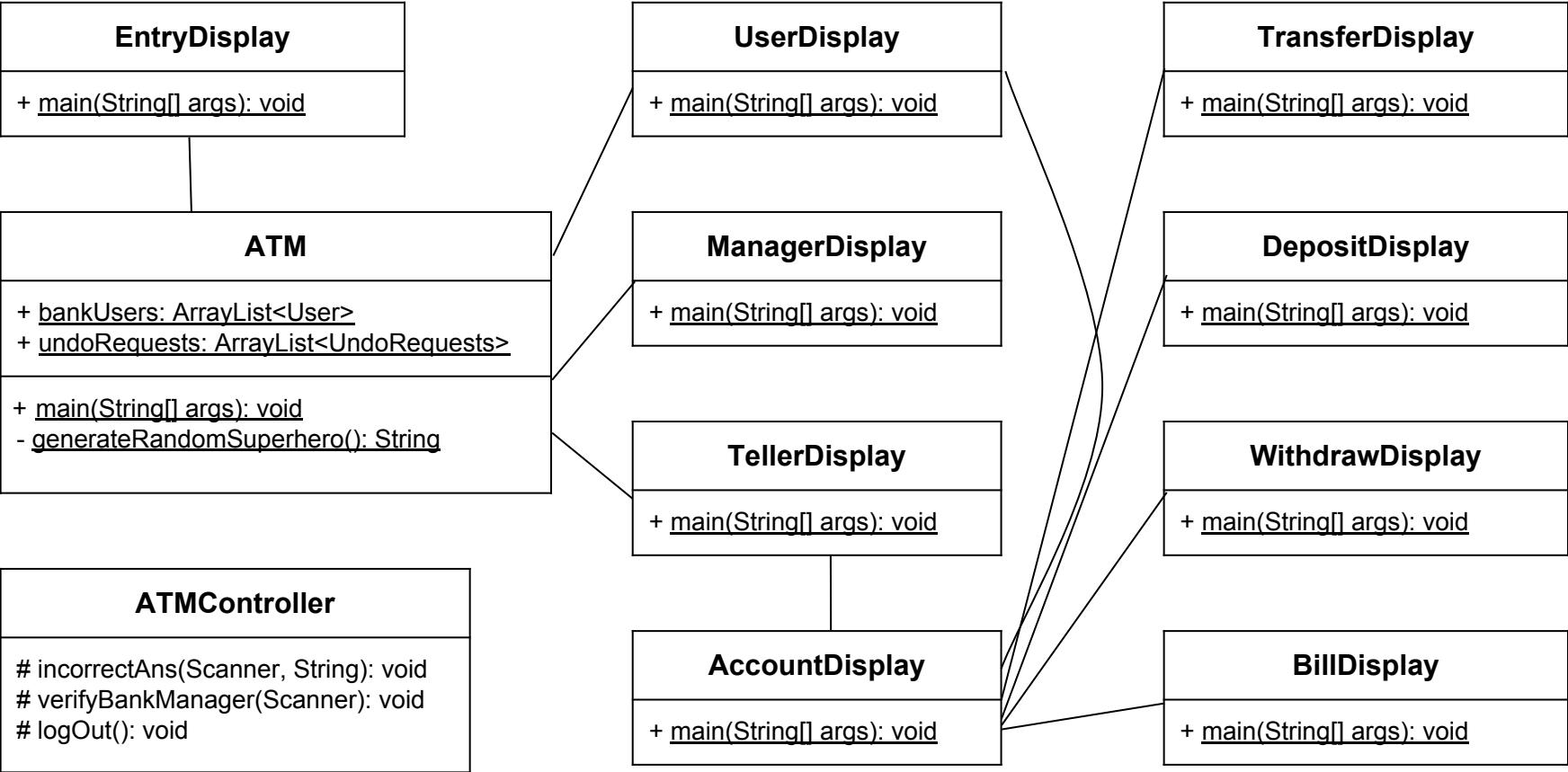


package phase2.People

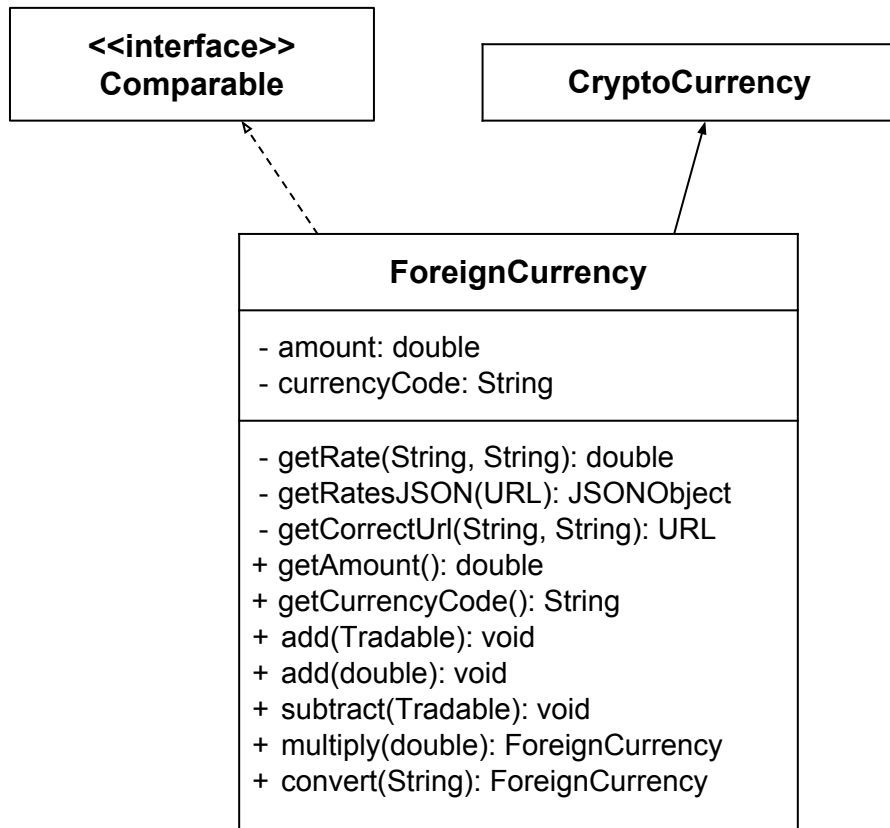
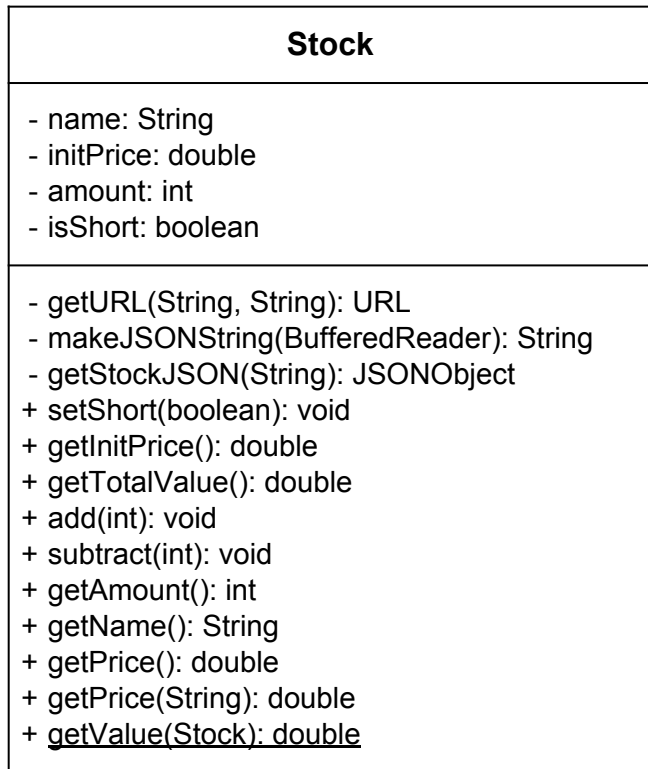
| UserManager |
|--|
| + <u>accountNum: int</u> |
| + <u>authenticateUsername(String): boolean</u> + <u>isBankManager(String): boolean</u> + <u>getNextAccountNum(): int</u> + <u>authenticatePassword(String, User): boolean</u> + <u>getUser(String): User</u> + <u>getUserAccount(int): Account</u> + <u>addUser(String, String): void</u> + <u>updateInterest(): void</u> |

| BankManager |
|---|
| - username: String - password: String - <u>manager: BankManager</u> + userRequests: ArrayList<UserRequest> + accountRequests: ArrayList<AccountRequest> |
| + <u>getInstance(): BankManager</u> + getUsername(): String + getPassword(): String + setDate(int, int, int, int, int, int): void + getRequestList(): ArrayList<Request> + getRequest(int): Request + getNumberOfRequests(): int - getIndex(String): int - deleteAlerts(): void + getRequestSummary(): String + addRequest(UndoRequest): void + ignoreRequest(int): void + completeRequest(int): void + restockCashMachine(): void |

package phase2.Display



package phase2.Tradable



package phase2

| CashMachine |
|--|
| <ul style="list-style-type: none">- bills: int[4]- <u>c: CashMachine</u> |
| <ul style="list-style-type: none">- getNumBills(int): int- getDenomination(int): int- decreaseBills(int, int): void- writeAlerts(): void- numSubtract(int, int): int+ increaseBills(int, int): void+ setBills(int[]): void+ <u>getInstance(): CashMachine</u>+ withdrawBills(double): void+ totalBalance(): int |

| Portfolio |
|---|
| <ul style="list-style-type: none">- stockTable: HashMap<String, Stock>- shortTable: HashMap<String, Stock> |
| <ul style="list-style-type: none">+ addStock(Stock): void+ sellStock(String): double+ getValue(String): double+ getTotalValue(): double+ startShort(Stock): void+ endShort(String): double |

| ATMTime |
|--|
| <ul style="list-style-type: none">- yearFactor: int- monthFactor: int- dayFactor: int- hourFactor: int- minuteFactor: int- secondFactor: int- <u>clock: ATMTime</u> |
| <ul style="list-style-type: none">- getCurrentDay(): int+ getCurrentTime(): Calendar+ isFirstOfMonth(): boolean+ setDate(int, int, int, int, int, int): void+ setFactors(int, int, int, int, int, int): void+ <u>getInstance(): ATMTime</u> |