

Teller

Full Class Description

Employee
-name: String -employeeID: int -loginusername: String -loginpwd: String -type: enum EmployeeType
+Employee() +Employee(attributes) //getters & setters(name, login)

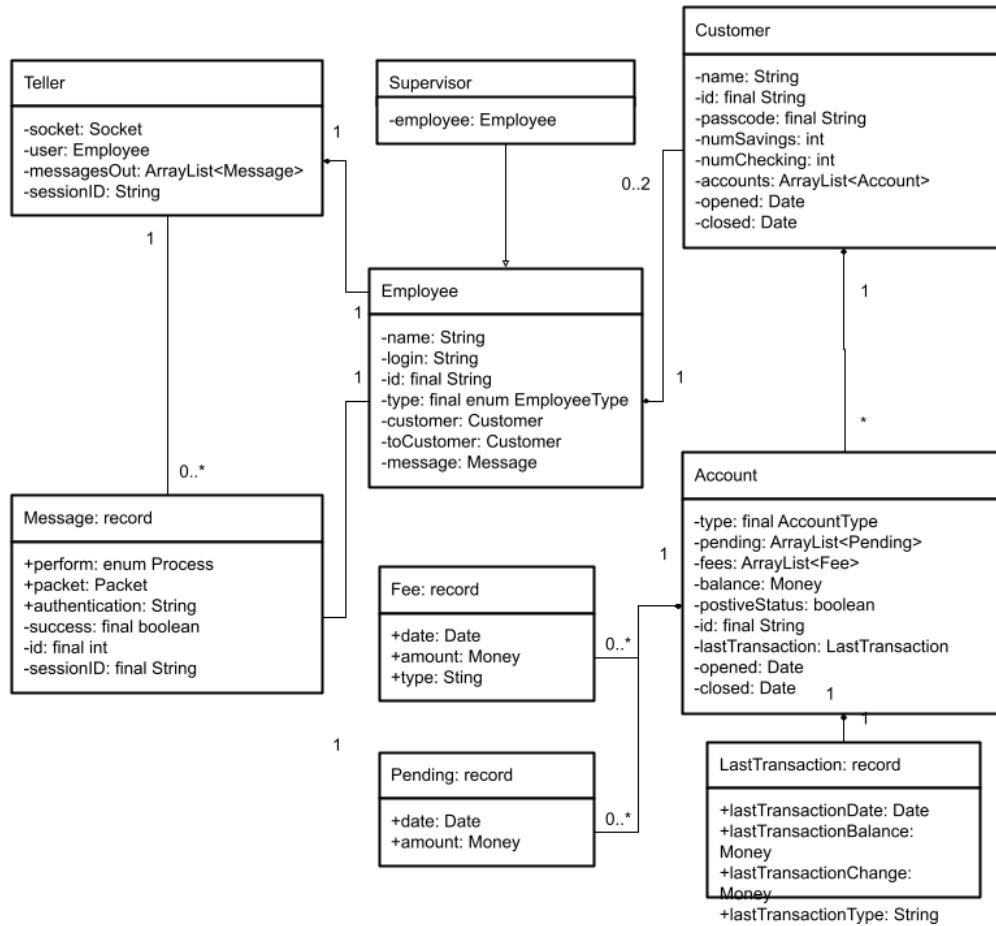
Customer
-name: String -id: final String -passcode: String -numSavings: int -numChecking: int -accounts: ArrayList<Account> -opened: Date -closed: Date
+Customer(int id, String passcode) +getID(): String +getPasscode(): String +getAccounts(): ArrayList<Account> +setAccounts(Account): +addAccount(Account): +removeAccount(String id): //getters & setters (name, numSavings, numChecking)

Account
+type: final AccountType +id: final String -pending: ArrayList<Pending> -fees: ArrayList<Fee> -balance: Money -postiveStatus: boolean -lastTransaction: LastTransaction
+Account(AccountType, int id) +popPending(): Pending +addPending(Pending): +popFee(): Fee +addFee(Fee) //getters & setters(pendings, fees, balance, positiveStatus, lastTransaction)

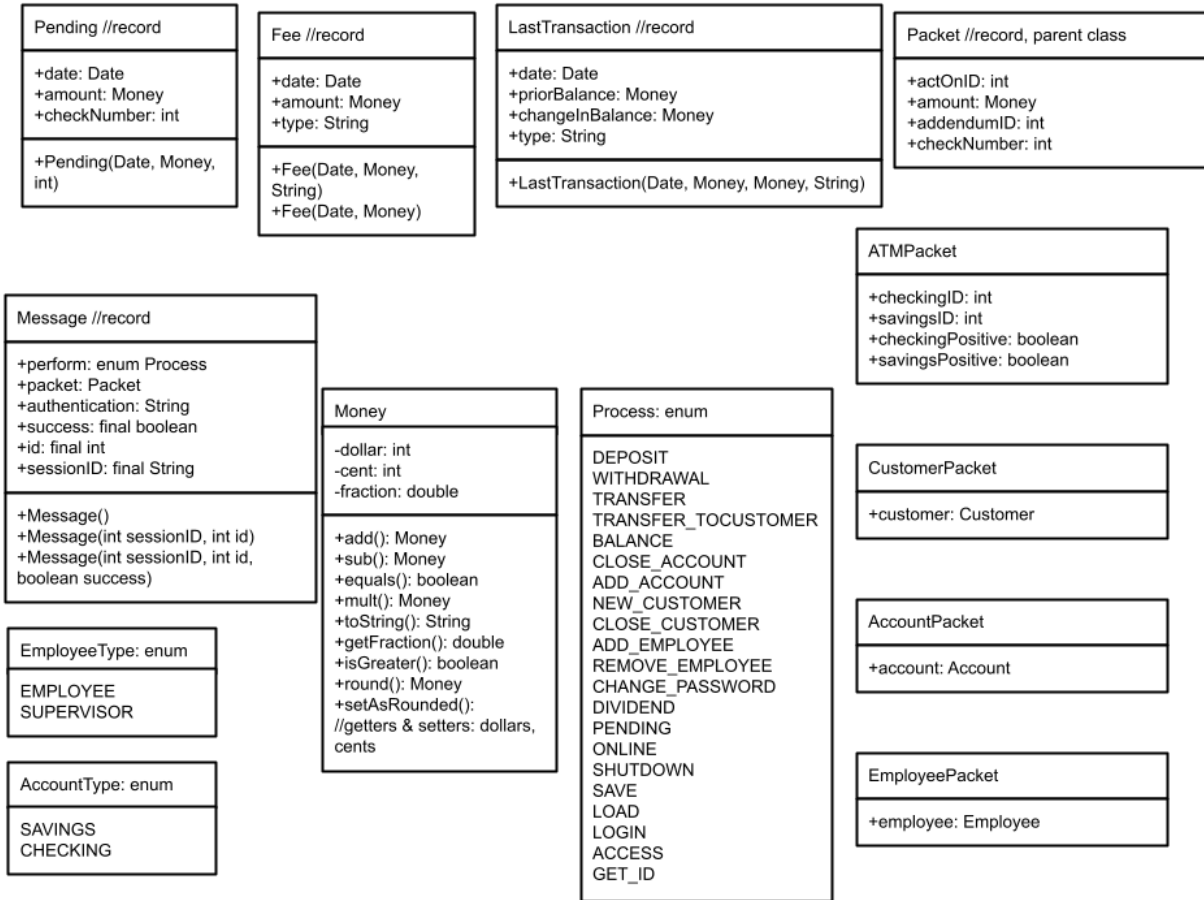
Supervisor
-employee: Employee
+newEmployee(Employee); +changePassword(): +accessEmployee(int id): Message +save(): Message +load(): Message +removeEmployee(): Message +processDvidend(): Message +processPending(): Message

Teller
-socket: Socket -employee: Employee -messagesOut: ArrayList<Message> -sessionID: String -customer: Customer
+Connection(Socket, Employee) -makeConnection(): Socket +login(User, String password) +access(Customer) +listen(): Message +send(Message) +closeConnection(): +newAccount(): Message +closeAccount(): Message +newCustomer(): Message +closeCustomer(): Message +accessCustomer(String passcode, String id): Message +withdraw(String id, Money): Message +deposit(String id, Money, Pending): Message +transfer(String id, String toID, Money): Message +transfer(String toID, String frID, Money): Message

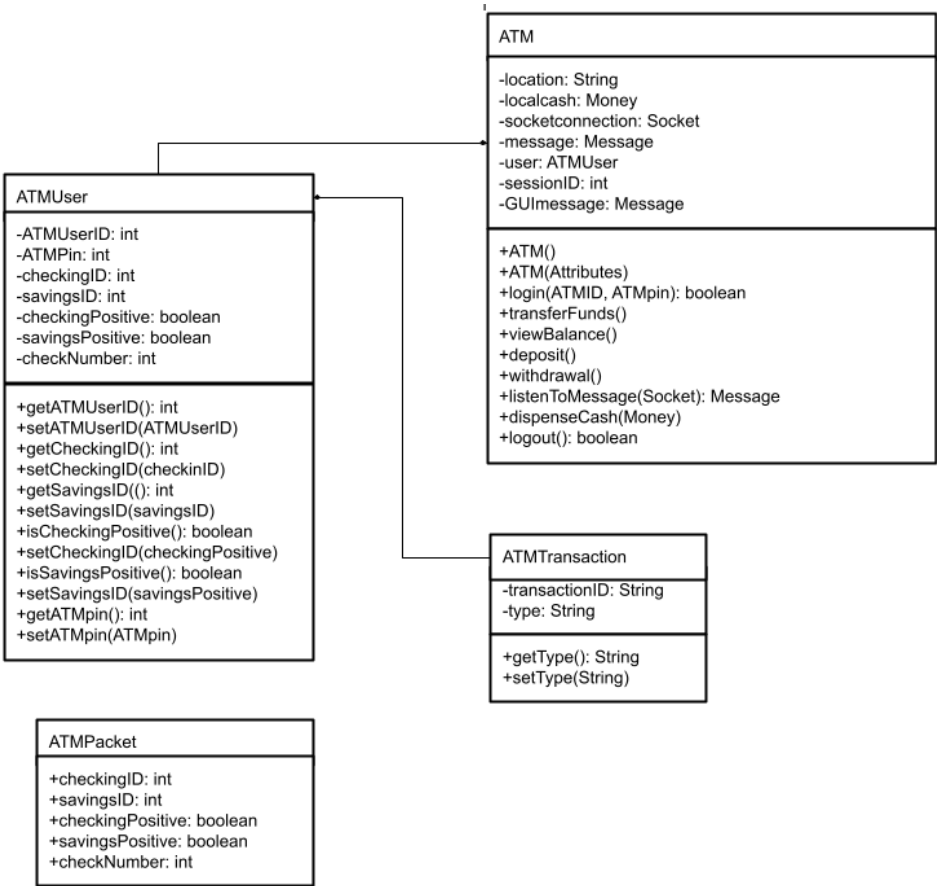
System



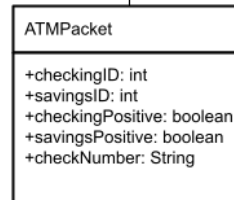
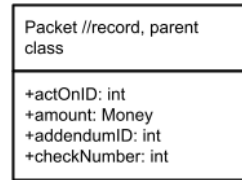
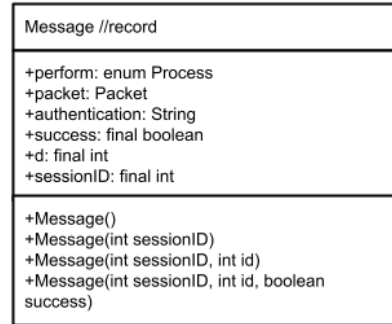
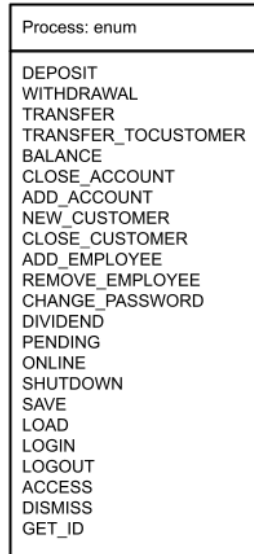
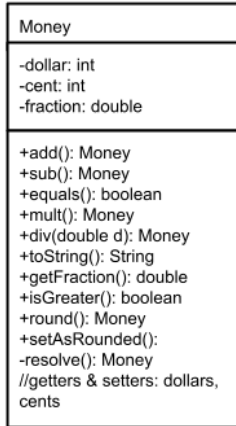
Supporting Classes



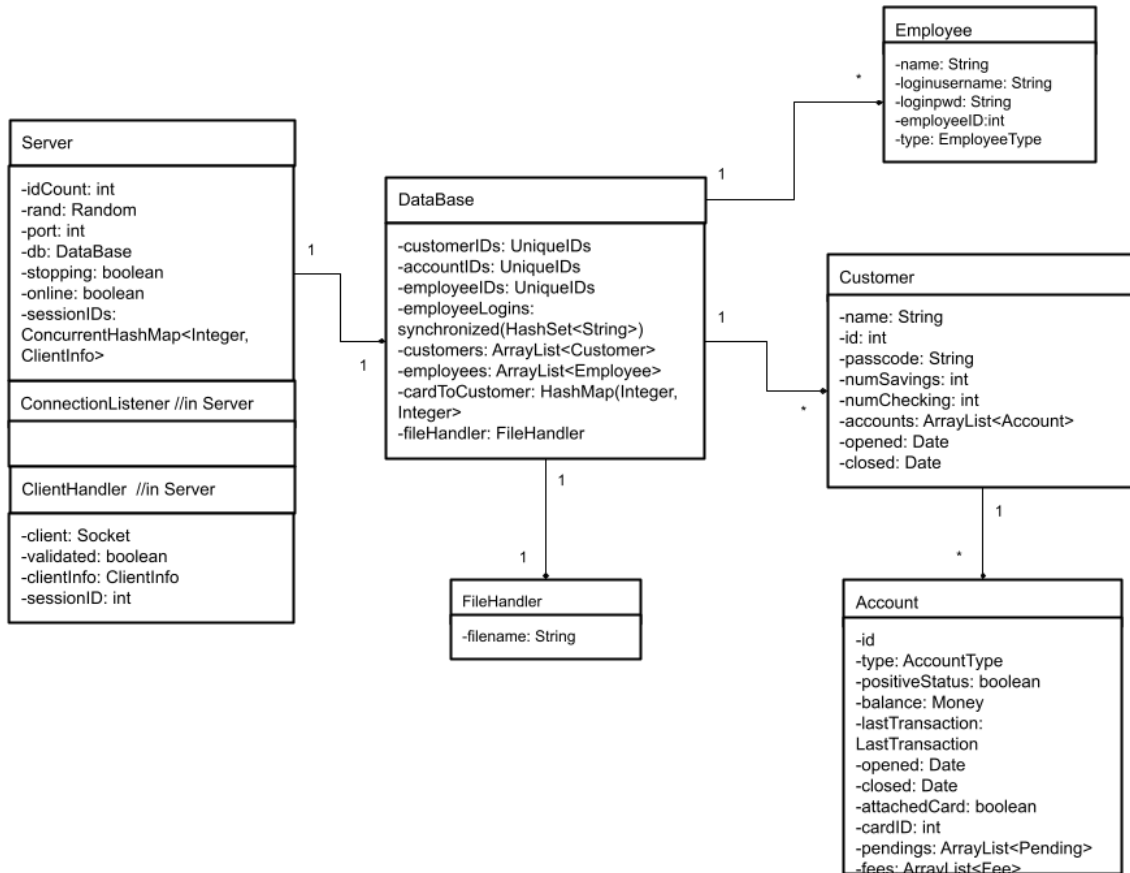
ATM
System



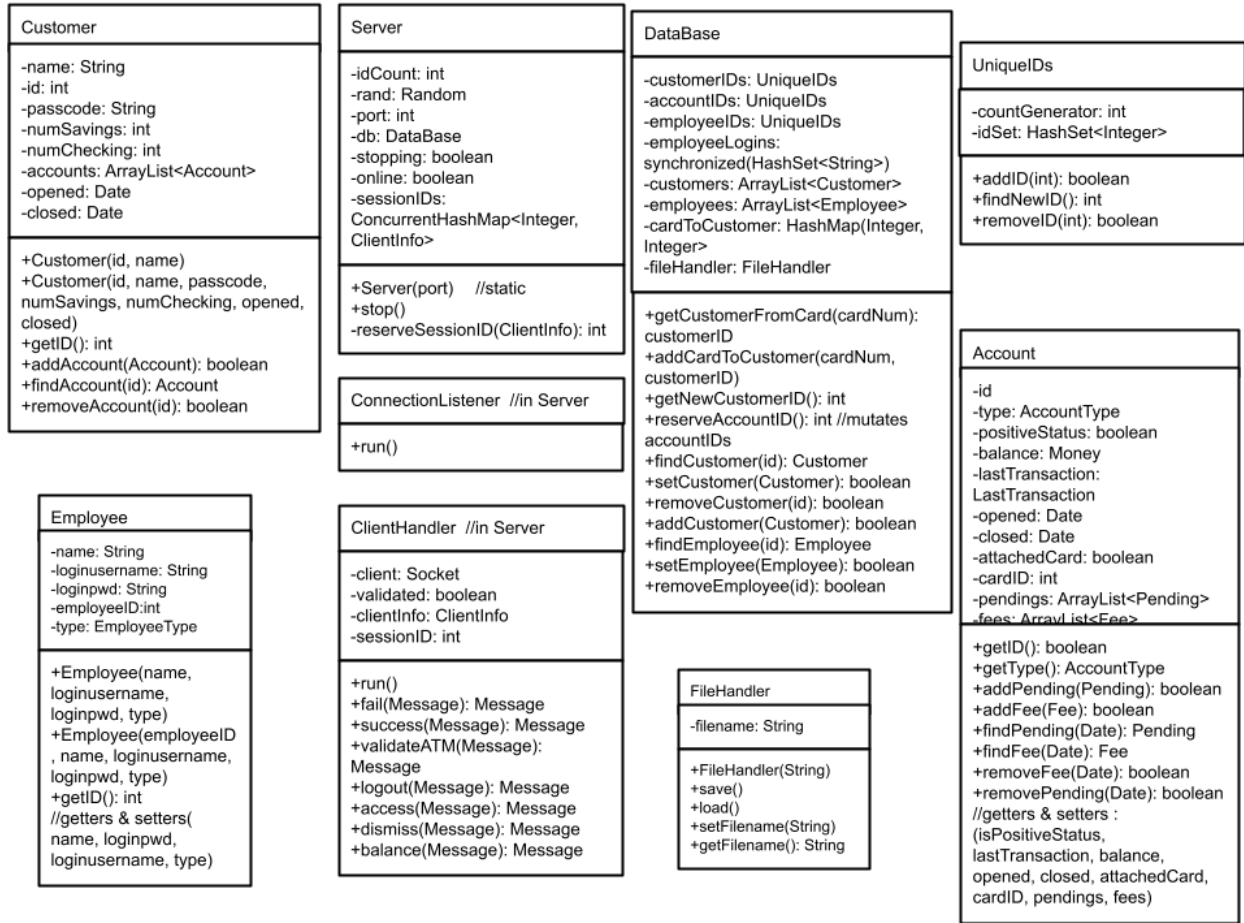
Supporting classes



Server System



Full Class Description



Supporting Classes

Money
-dollars: int -cents: int -fraction: double -isPositive: boolean //0, true
+Money() +Money(Money) +Money(int, int, boolean) +getFraction(): double +add(): Money +sub(): Money +mult(): Money +div(): Money +equals(): boolean +toString(): String +isGreater(): boolean -resolve() +absMoney(): Money -negAdd(): Money -negSub(): Money +round(): Money +setAsRounded(): //getters & setters(dollars, cents, isPositive)

Pending //record
+amount: Money +date: Date +checkNumber: int
+Fee(Date, Money, int) +Pending(Money, int)

Fee //record
+amount: Money +date: Date +type: String
+Fee(Date, Money, String) +Fee(Money, String)

Message //record
+perform: enum Process +packet: Packet -success: boolean -id: final int -sessionID: final String
+Message() +Message(int sessionID, int id) +getSuccess(): boolean

Packet //record
+actOnID: int +amount: Money +addendumID: int +checkNumber: int
+Packet() +Packet(int, Money, int, int)

EmployeeType: enum
EMPLOYEE SUPERVISOR

AccountType: enum
CHECKING SAVINGS

ClientInfo //record
+clientType: ClientType +customerID: int +isSupervisor: boolean
+ClientInfo(ClientType, id, isSupe)

ClientType: enum
ATM Teller

Process: enum
DEPOSIT WITHDRAWAL TRANSFER TRANSFER_TOCUSTOMER BALANCE CLOSE_ACCOUNT ADD_ACCOUNT NEW_CUSTOMER CLOSE_CUSTOMER ADD_EMPLOYEE REMOVE_EMPLOYEE CHANGE_PASSWORD DIVIDEND PENDING ONLINE SHUTDOWN SAVE LOAD LOGIN LOGOUT ACCESS DISMISS GET_ID

LastTransaction //record
+date: Date +priorBalance: Money +changeInBalance: Money +type: String
+LastTransaction(Date, Money, Money, String)

CheckValidation
+rand: Random
+validateCheck(): boolean