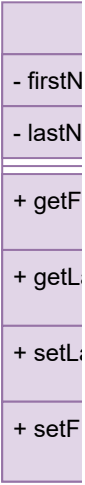
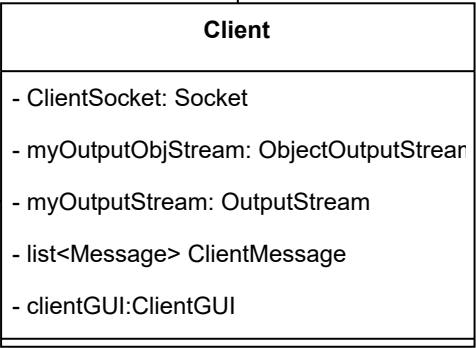
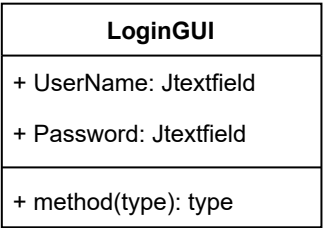


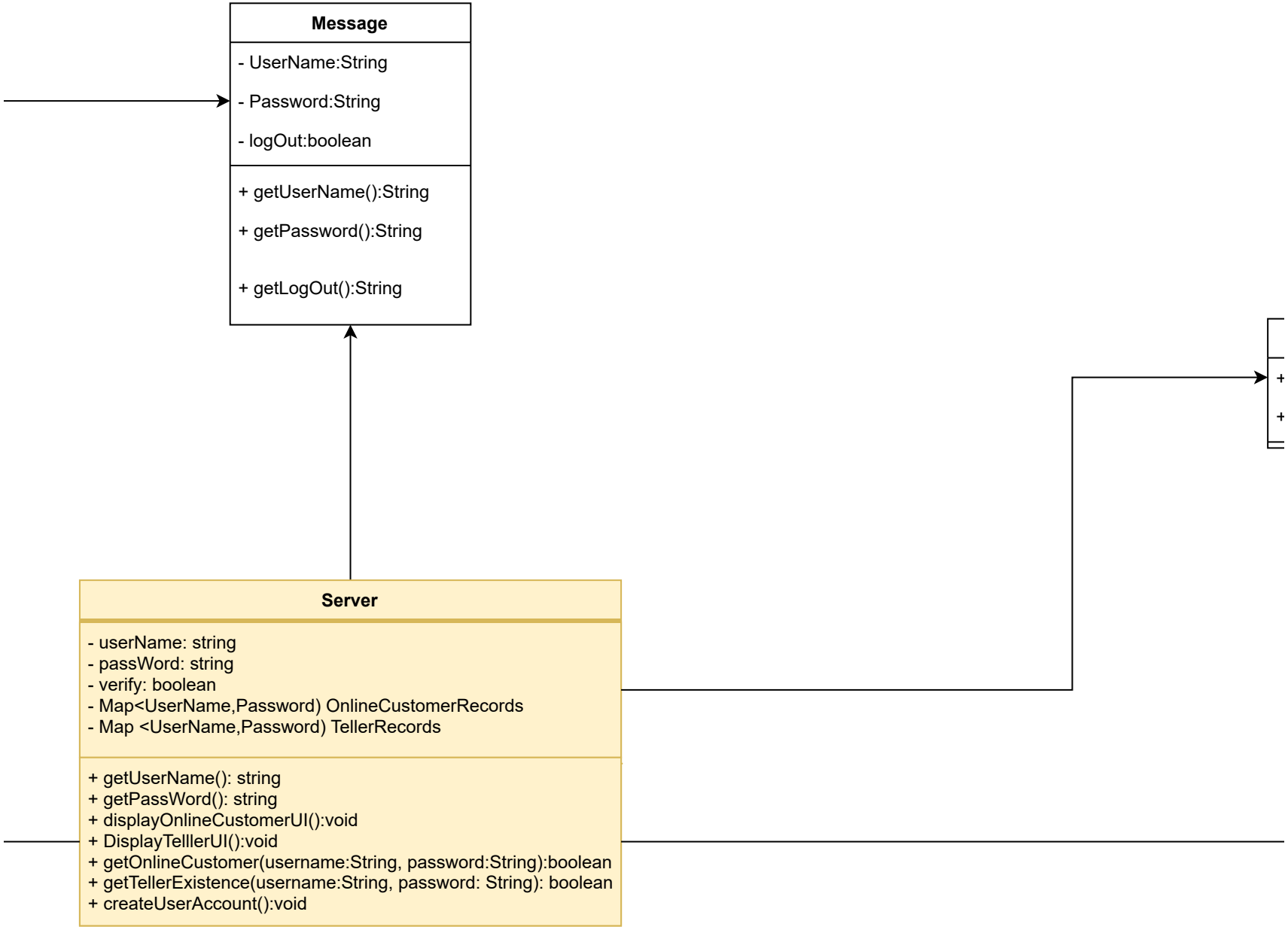
Ant

Ebadullah

Angela

Tuong





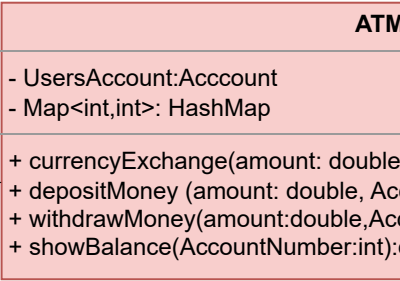
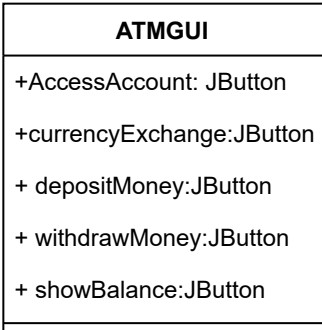
Name
ame: String
ame:String
irstName():String
astName():String
astName():String
irstName():String

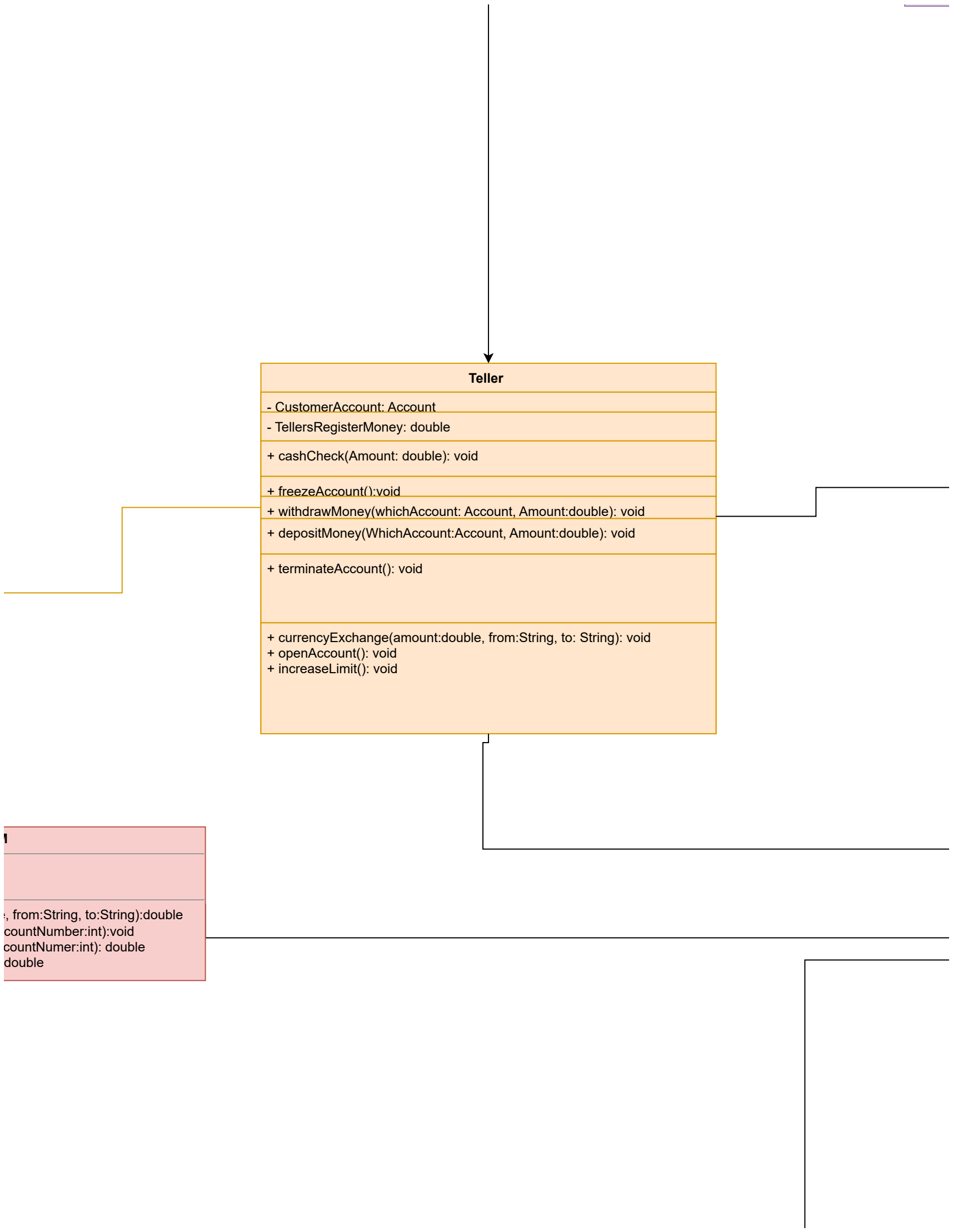
Phone
- areaCode: String
- number1 :String
- number2 :String
+ getAreaCode: String
+ setNumber2: String
+ getNumber1():String

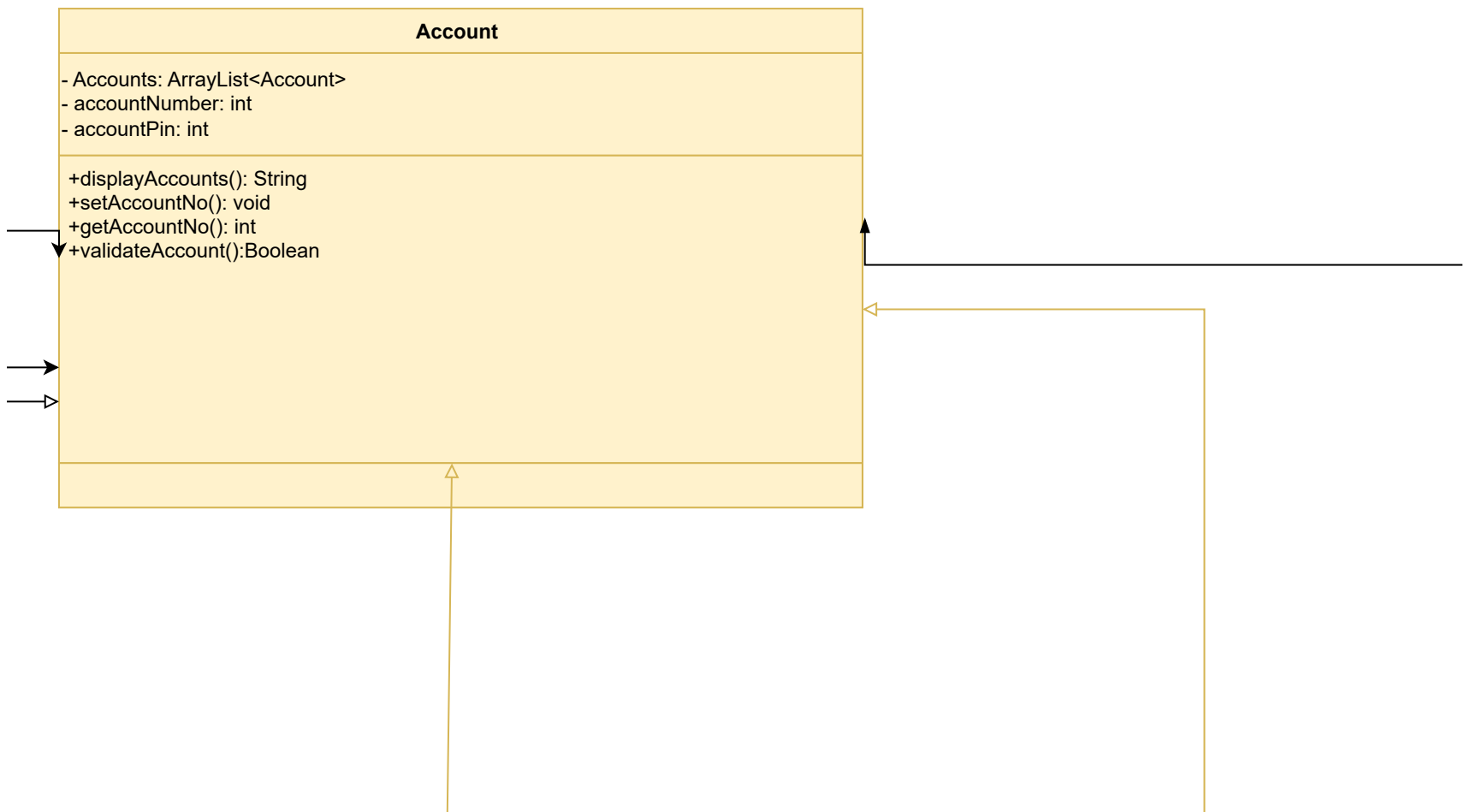
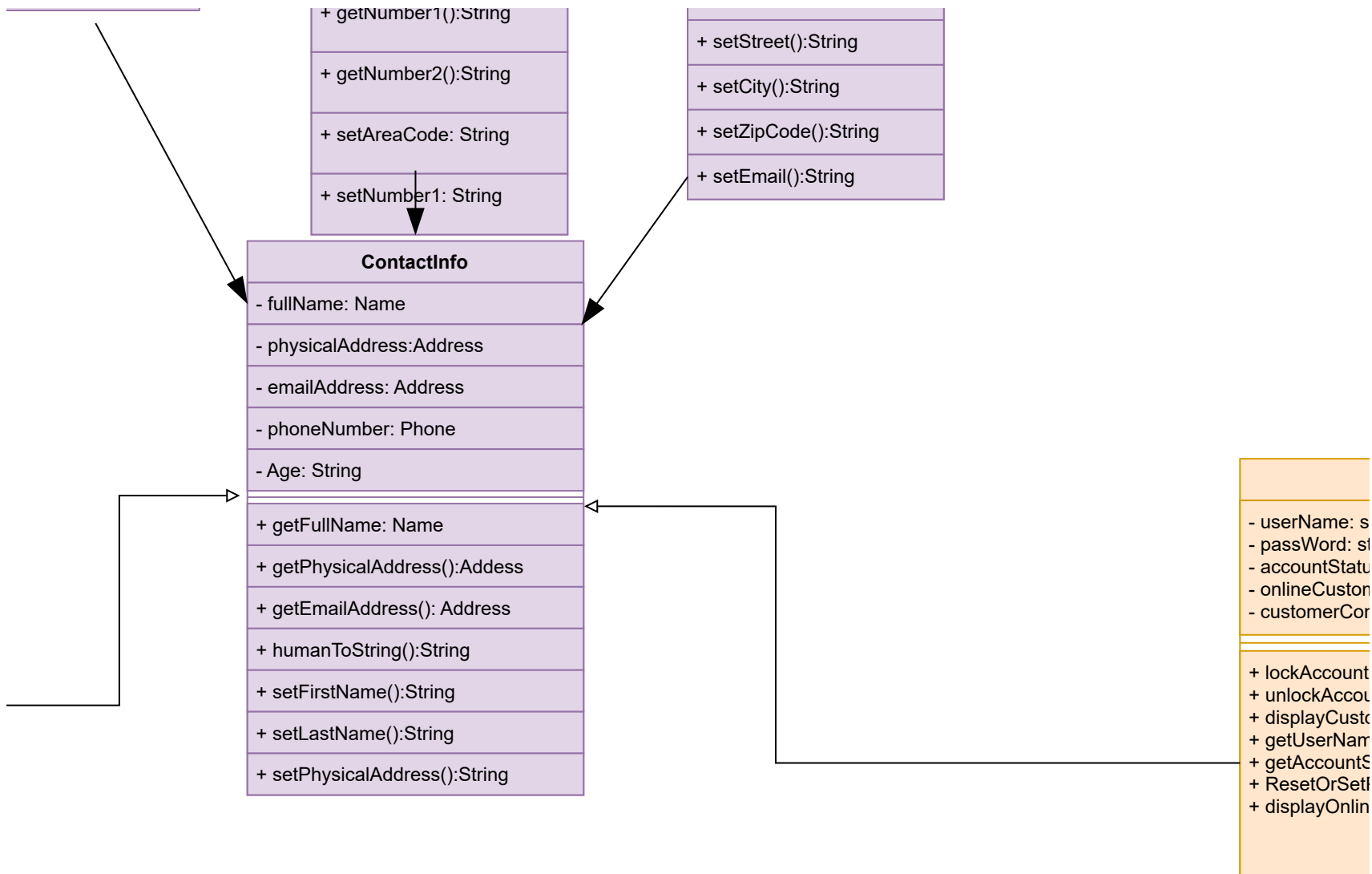
Address
- street: String
- city: String
- zipCode: String
- email : String
+ getStreet(): String
+ getCity():String
+ getZipCode():String
+ getEmail():String

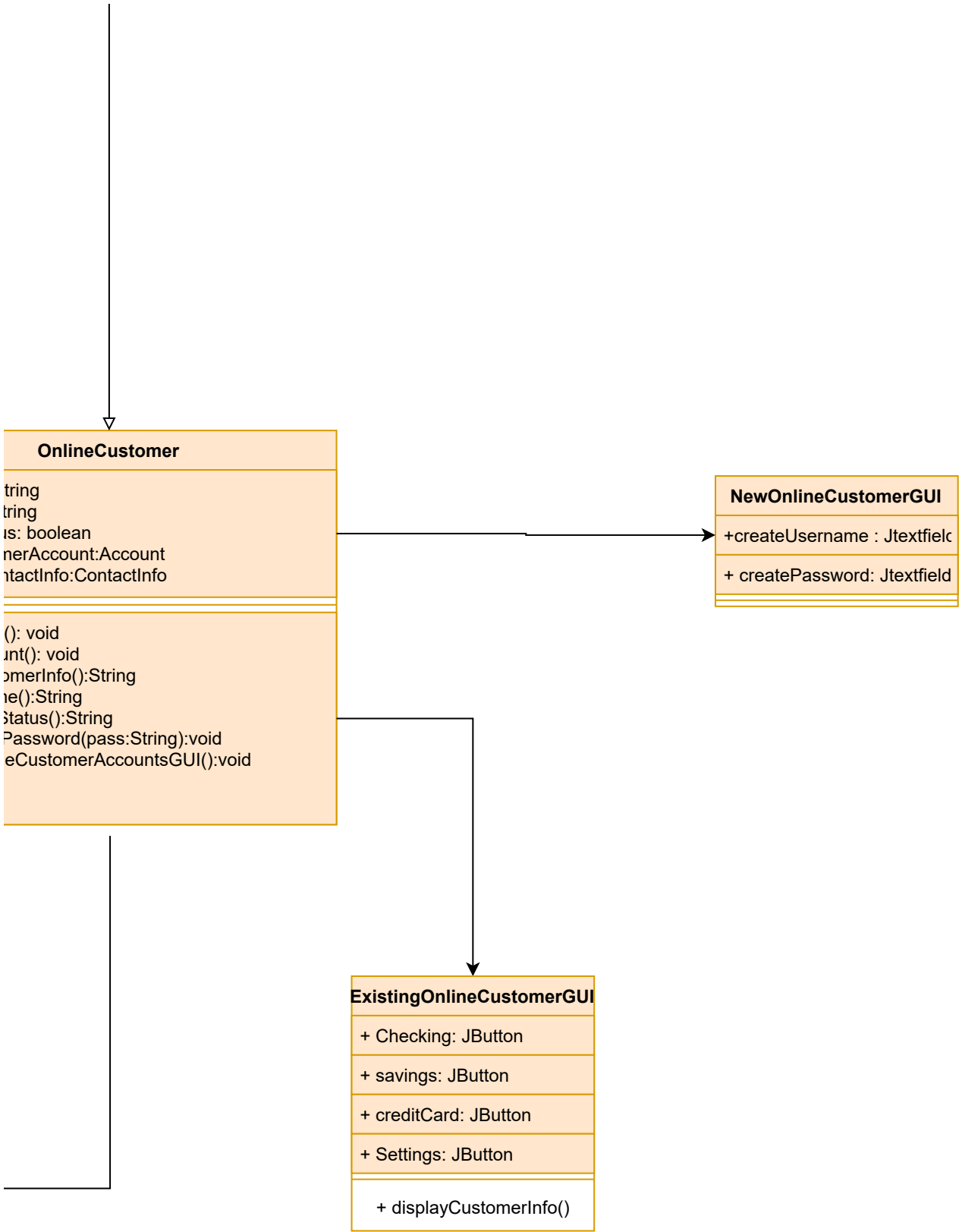
MainGUI
·Customer : JButtons
· Teller: JButton

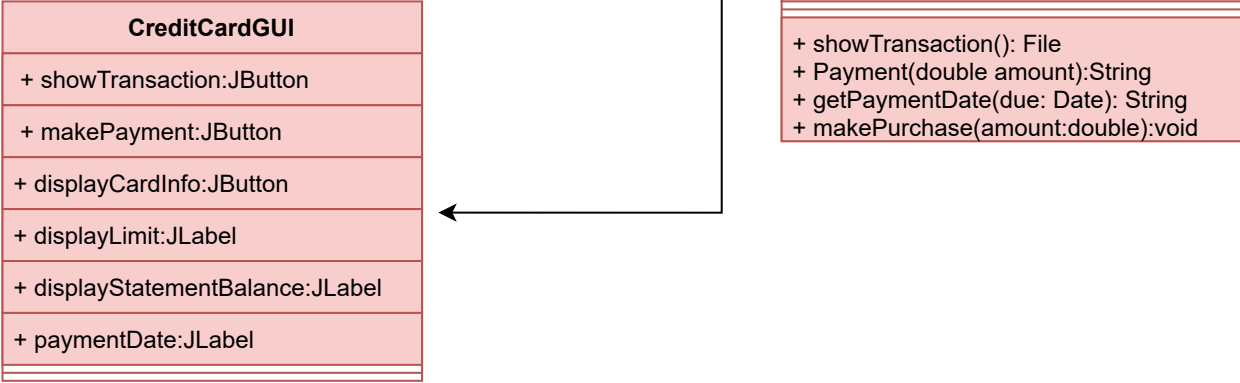


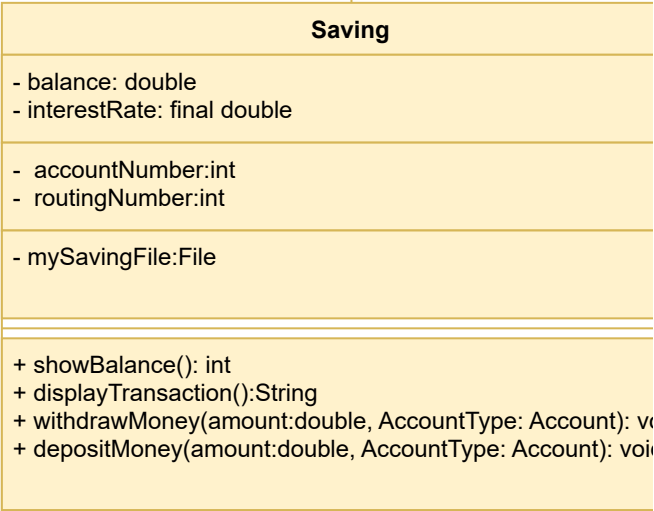
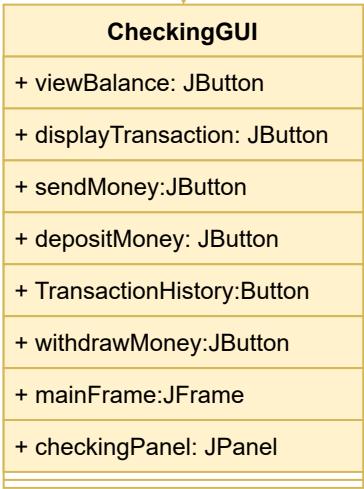
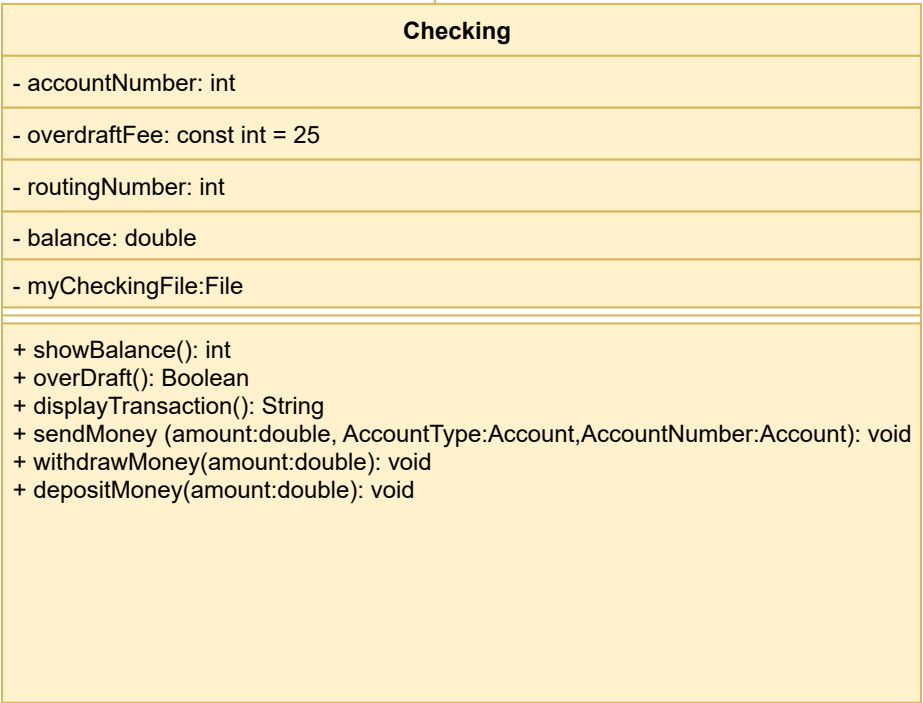


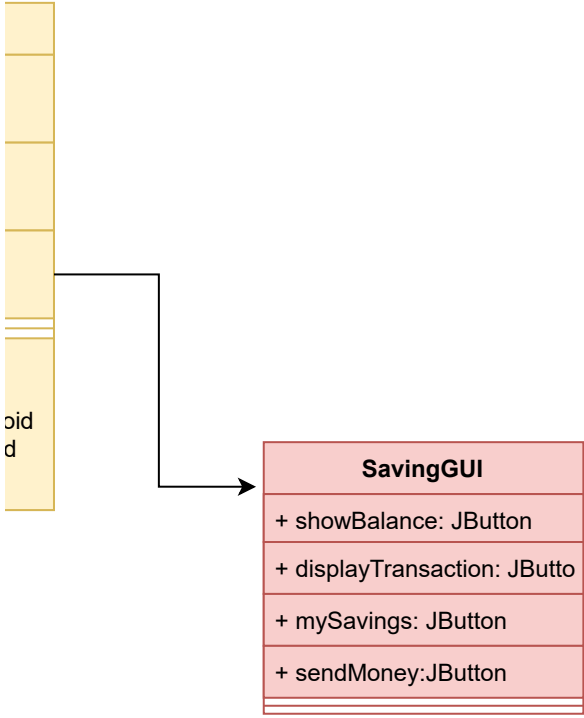












Use case ID: 1

Use case Name: User interacts with the banking online system

Relevant requirements:

Primary Actor: User, Client, Server

Pre-condition: A valid username and password

Post-condition: A deposit made by user to user's checking account

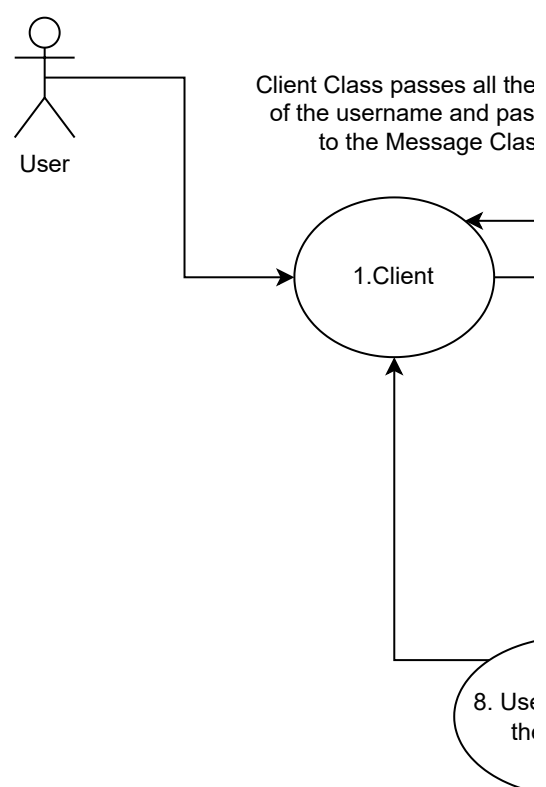
Basic Flow or Main Scenario:

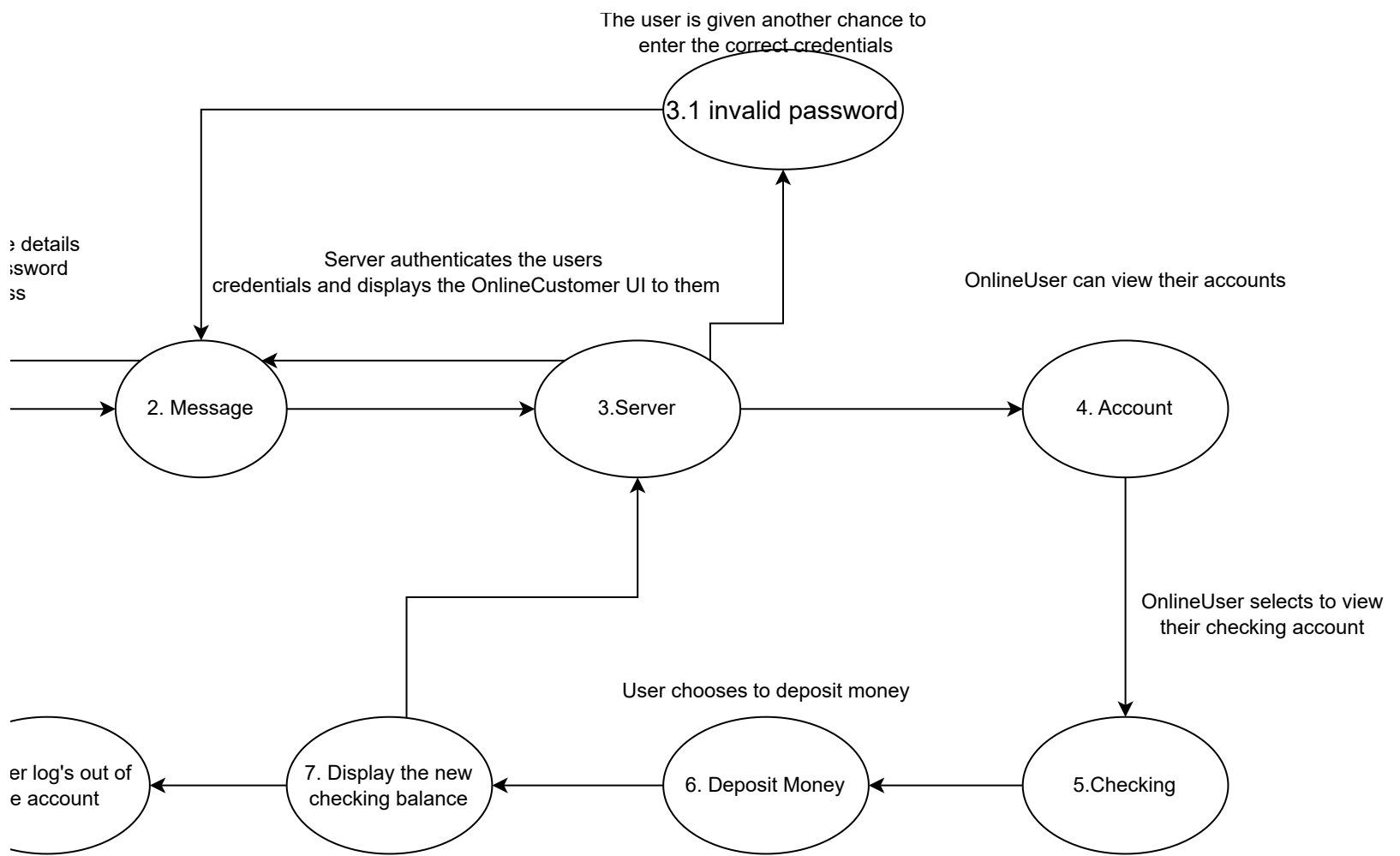
1. Client login to the bank system with username and password
2. The system authenticates the username and password. If it's correct then the system prompts the user to input the correct username and password again.
3. After validating the user, the system will display user's Account
4. User chooses to view the checking account (Alternative choice is 2)
5. User chooses to deposit money to checking account
6. System deposits money to designated checking account
7. System show the current balance after deposit.
8. User chooses to log out
9. System log out user's account

Extension or Alternative Flow:

1. User inputs incorrect username and password.
2. User can choose to view savings or credit card
3. User can Deposit, Withdraw, or view transaction after choosing to view the Checking

User visits the bank website
(client side)





Use case ID: 2

Use case Name: Teller

Relevant requirements:

Primary Actor: Client

Pre-condition: Valid username and password

Post-condition: An deposit made by a teller to a client's bank account

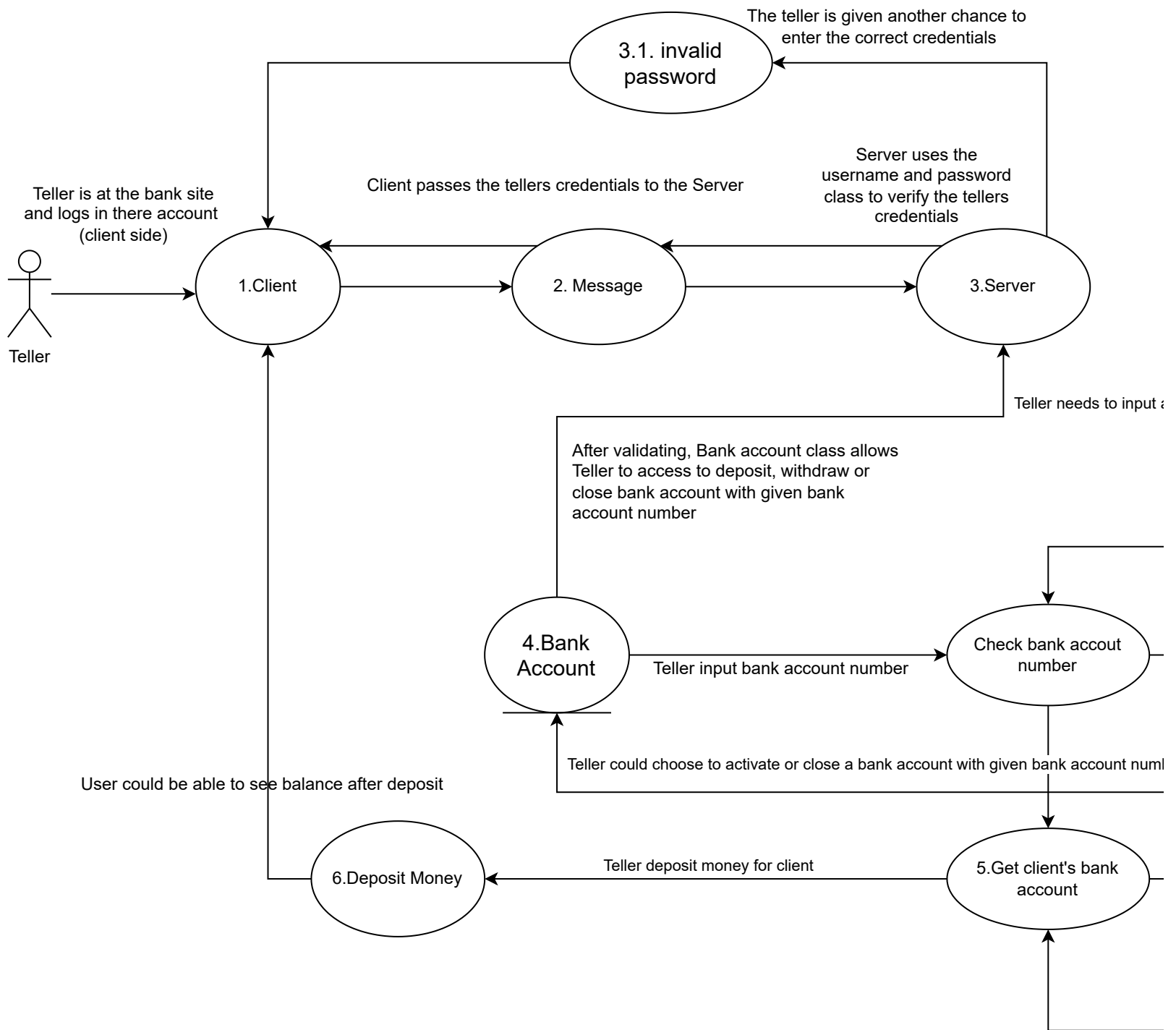
Basic Flow or Main Scenario:

1. Teller login to the bank system with username and password
2. The system authenticates the username and password. If it's correct then the system prompts the user to input the correct username and password again.
3. After validating the user, the system will display teller's account
4. Teller helps a client to deposit money to bank account
5. System prompts bank account number
6. Teller inputs client's bank account number and chooses deposit
7. System deposits money to client's bank account
8. System show current balance after deposit
9. Teller log out
10. System log out teller's account

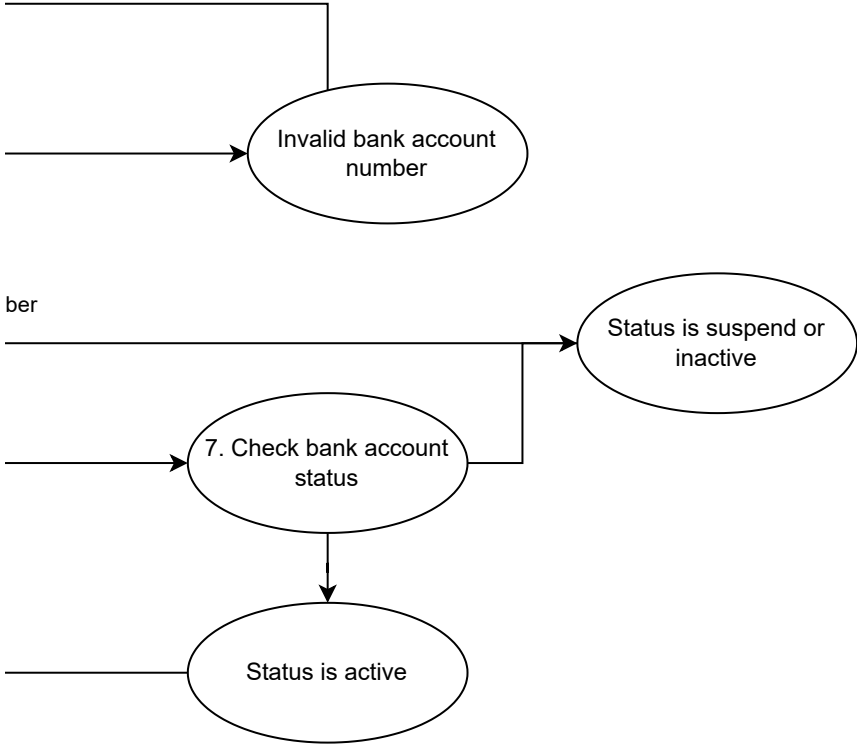
Extension or Alternative Flow:

1. User inputs incorrect username and password.
2. Bank account status is inactive or suspended
3. Teller chooses to activate it again or terminate it.
4. System reactivates the client's bank account
5. Teller chooses to cash check, withdraw money, exchange currency, increase limit

Exception: None



a valid bank account number



Use case ID: 3

Use case name: ATM

Relevant requirements:

Primary Actor: Client

Pre-condition: Valid username and password

Post-condition: None

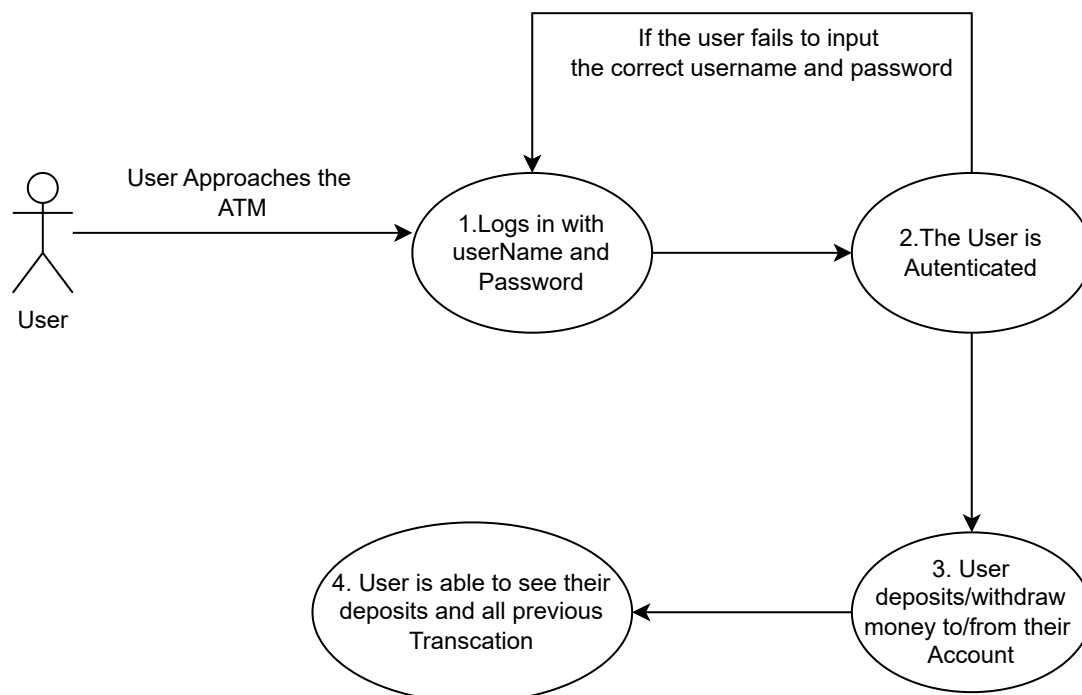
Basic Flow or Main Scenario:

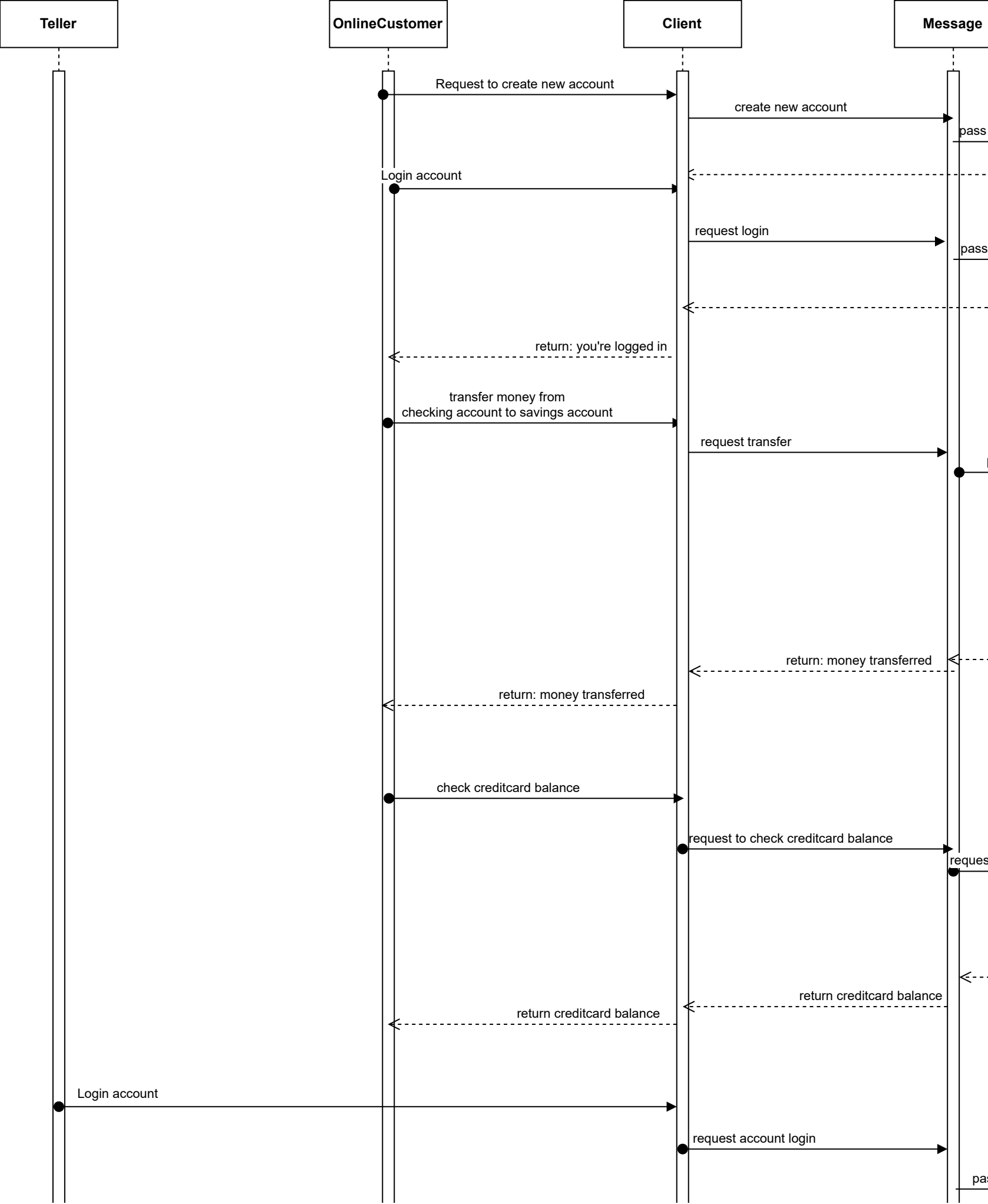
1. User chose to login
2. ATM verifies user input
3. ATM shows user bank account and prompt actions: deposit, show balance, withdraw, currency exchange
4. User chooses to deposit cash/check
5. ATM takes the user's input amount to deposit to the user's bank account
6. ATM then prompts actions after completion.
7. User chooses to show balance.
8. ATM shows user's bank account balance
9. ATM prompts action
10. User chooses to withdraw money
11. ATM withdraws money from user's bank account
12. User chooses to do log out
13. System safely log out user's account

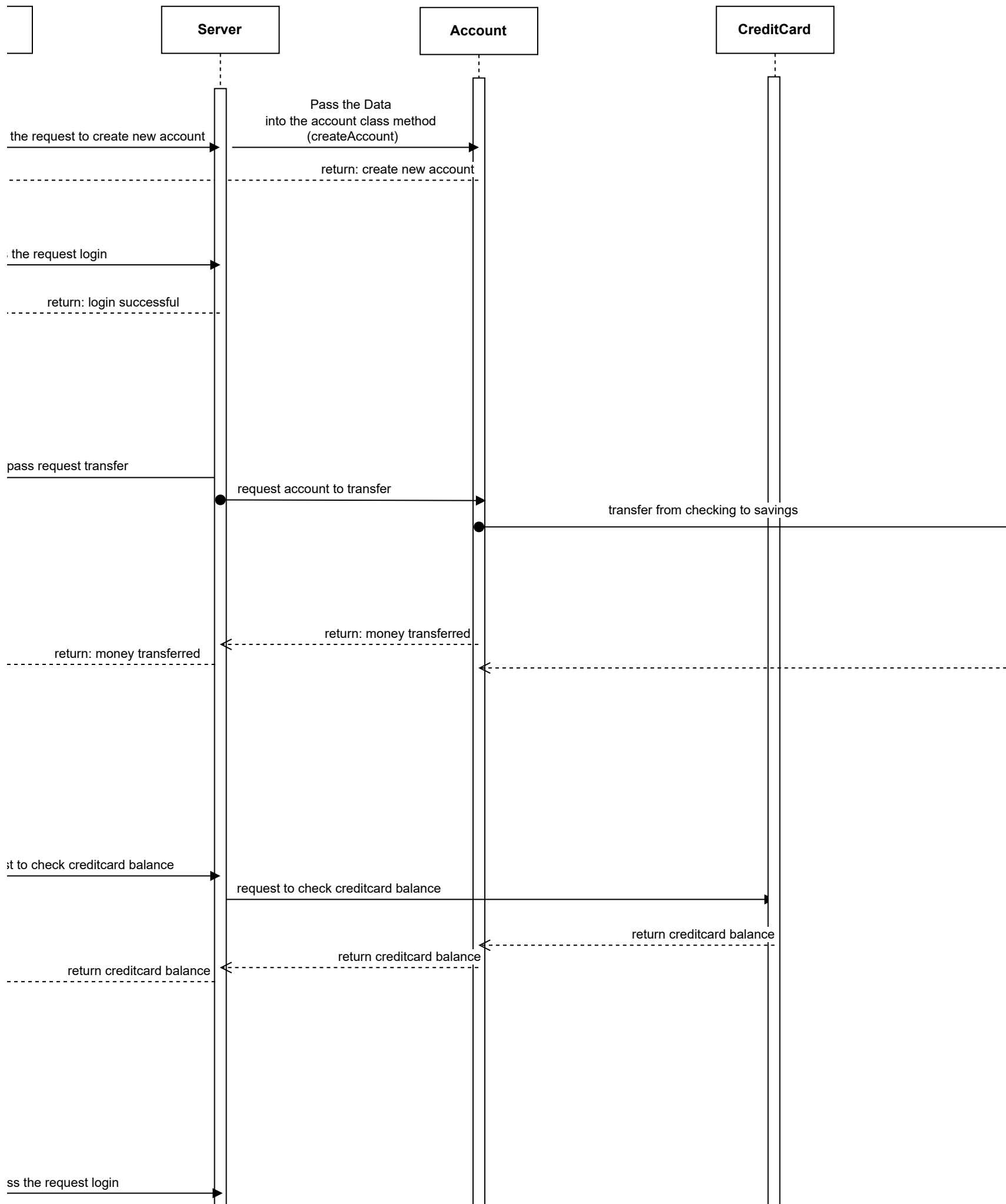
Extension or Alternative Flow:

1. User inputs incorrect username and password.

Exception: None

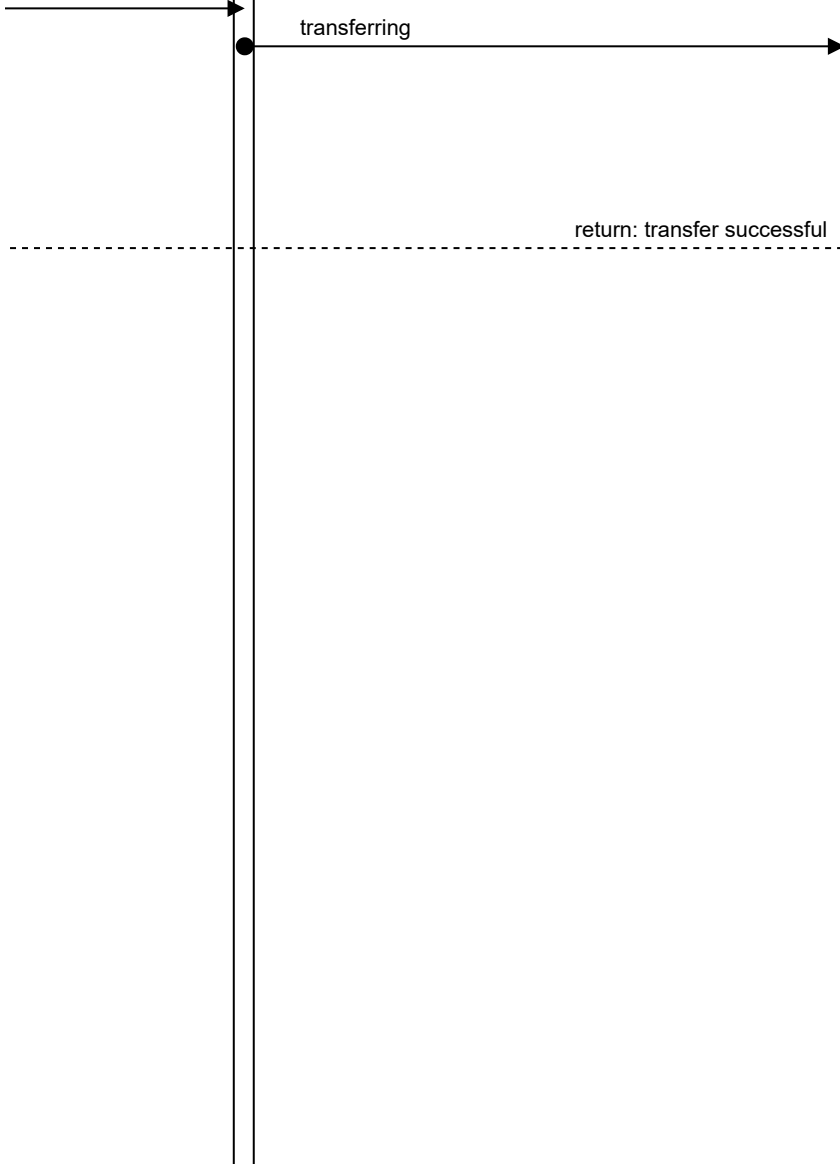


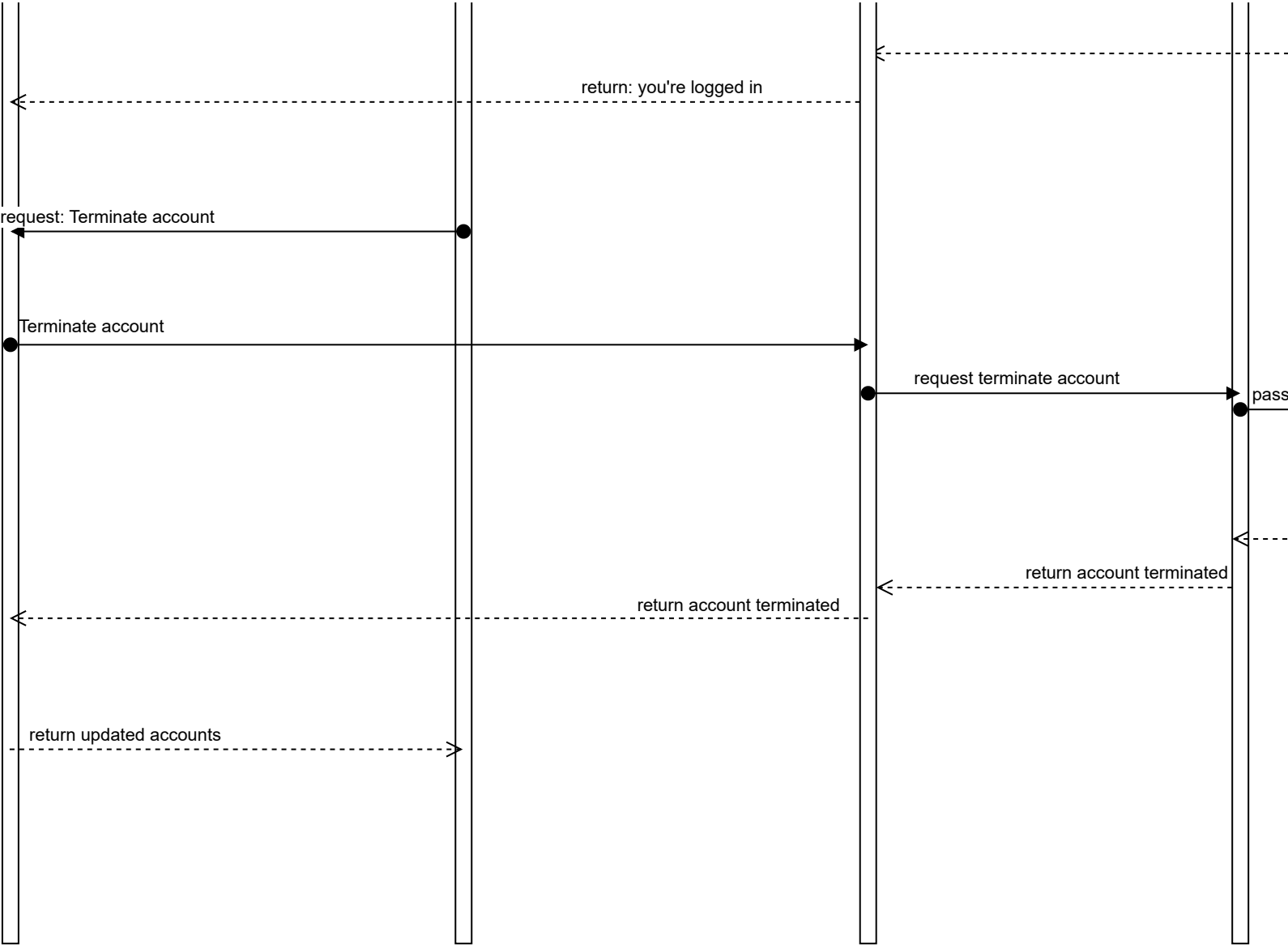


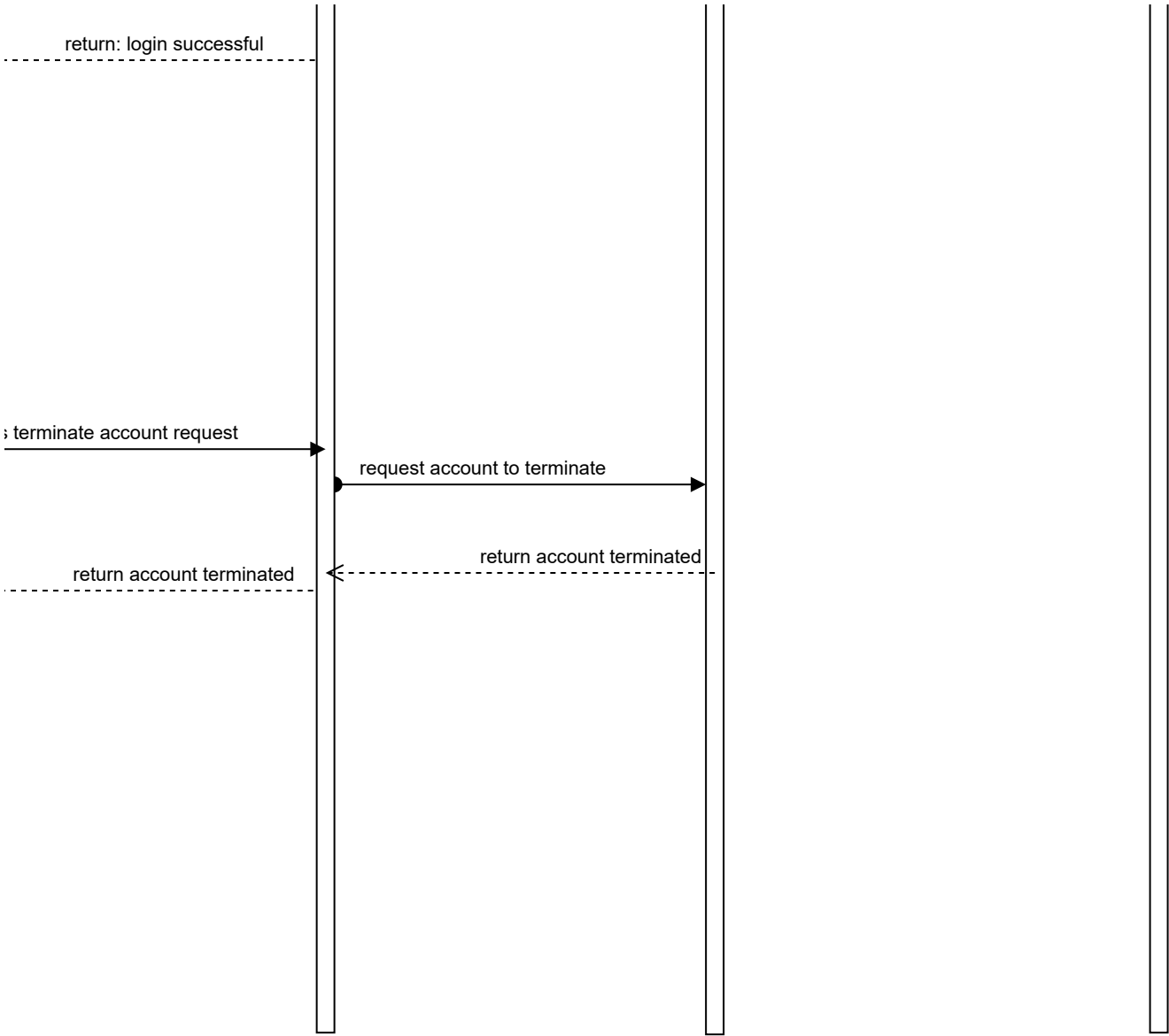


Checking

Saving

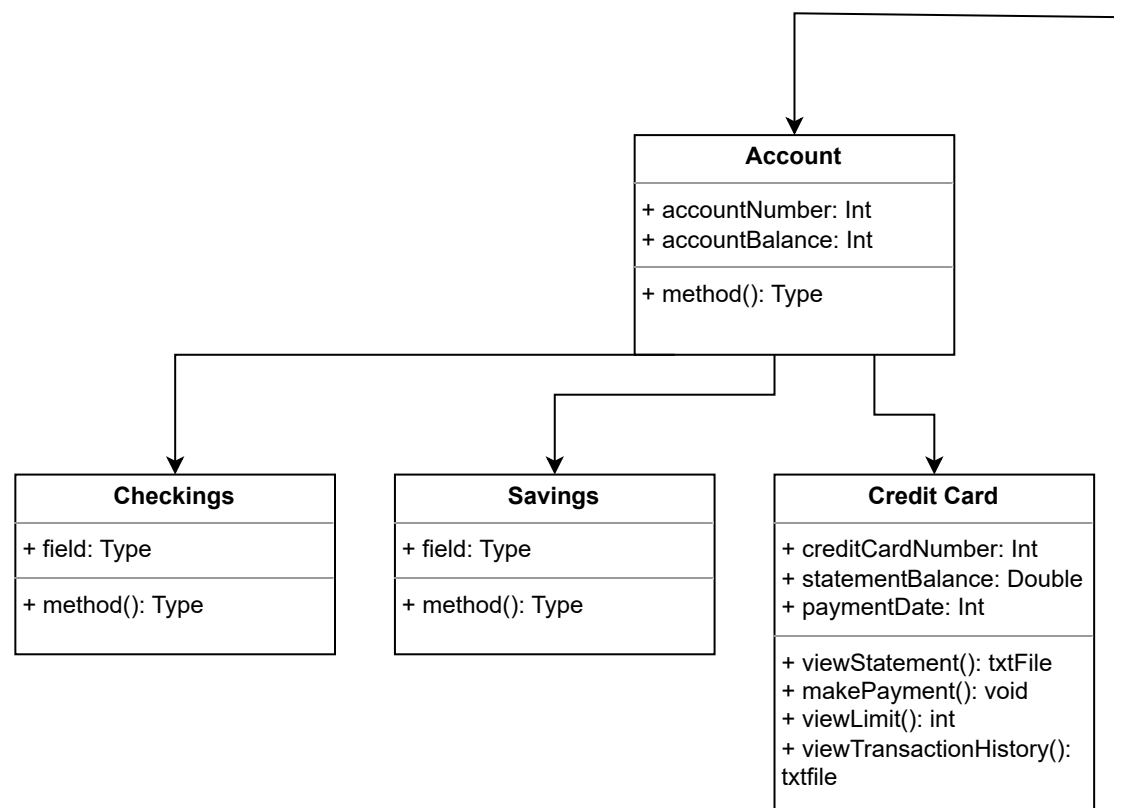


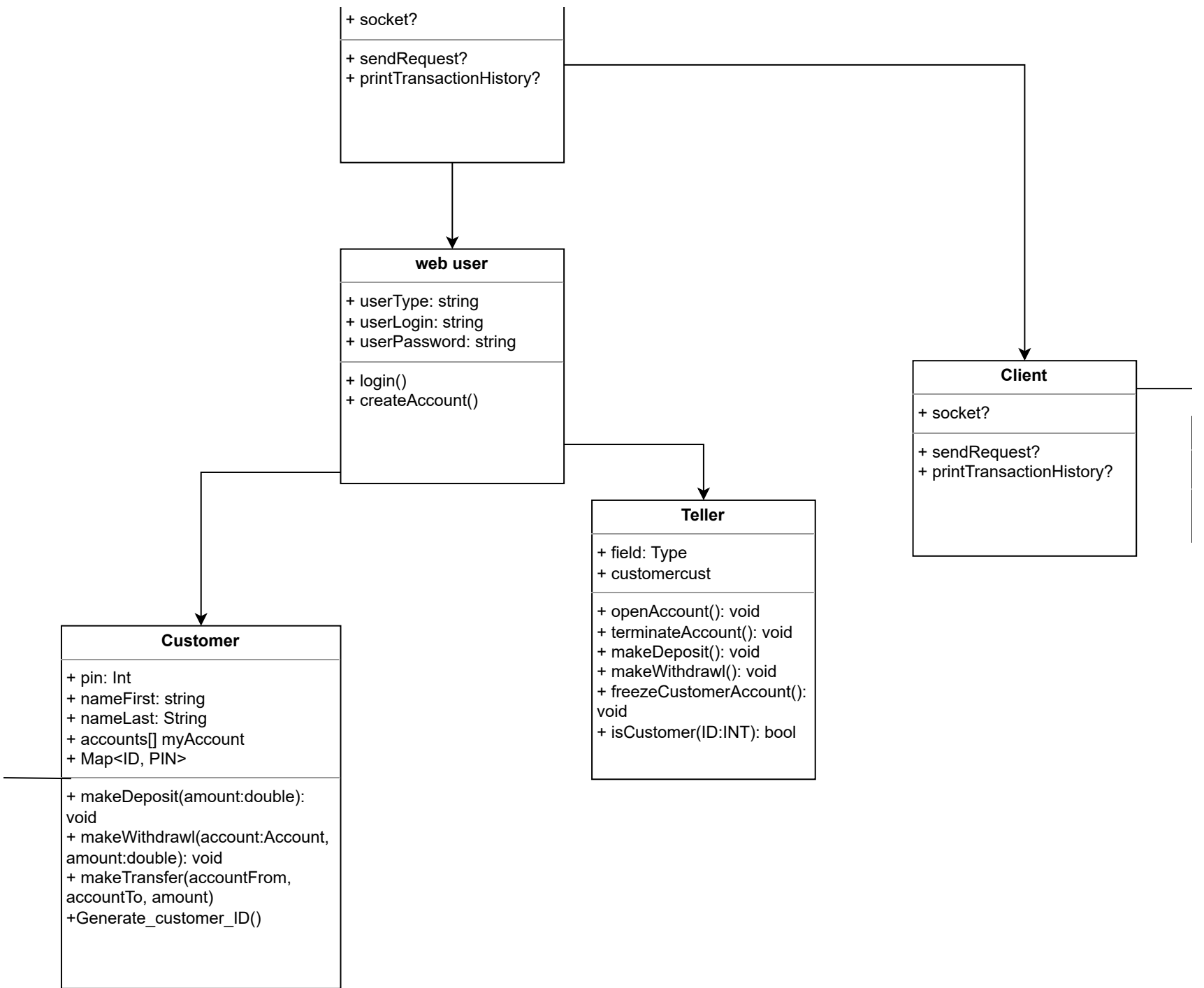




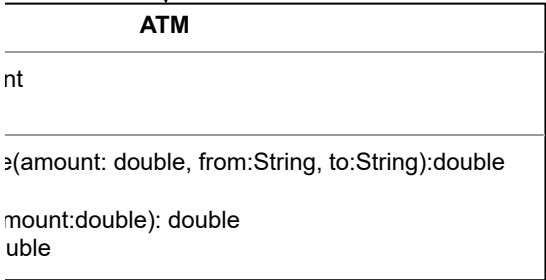
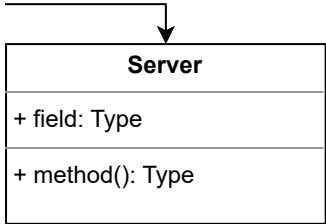


Client





+ AccountNumber: int + pinNumber: int
+ currencyExchange + depositMoney + withdrawMoney(amount) + showBalance():double



ATM User
- UsersAccount:Account
+ currencyExchange(amount: double, from:String, to:String):double + depositMoney (amount: double, AccountNumber:int):void + withdrawMoney(amount:double,AccountNumer:int): double + showBalance(AccountNumber:int):double

Account
- Accounts: ArrayList<Account> - accountNumber: int - accountPin: int -Map<int,int> accountRecords
+displayAccounts(): String +setAccountNo(): void +getAccountNo(): int +validateAccount():Boolean

OnlineCustomer
- userName: string - passWord: string - accountStatus: boolean - onlineCustomerAccount:Account - firstName: String - lastName: String
+ lockAccount(): void + unlockAccount(): void + displayCustomerInfoName():String + getUserName():String + getAccountStatus():String + ResetOrSetPassword(pass:String):void + displayOnlineCustomerAccounts():void

Teller
- CustomerAccount: Account - TellersRegisterMoney: double
+ cashCheck(Amount: double): void + freezeAccount():void + withdrawMoney(whichAccount: Account, Amount:double): void + depositMoney(WhichAccount:Account, Amount:double): void + terminateAccount(): void + currencyExchange(amount:double, from:String, to: String): void + openAccount(): void + increaseLimit(): void

Server
- userName: string - passWord: string - verify: boolean - Map<UserName,Password> OnlineCustomerRecords - Map <UserName,Password> TellerRecords
+ getUserName(): string + getPassWord(): string + displayOnlineCustomerUI():void + DisplayTellerUI():void + getOnlineCustomer(username:String, password:String):boolean + getTellerExistence(username:String, password: String): boolean + createUserAccount():void

Client
- ClientSocket: Socket - myOutputObjStream: ObjectOutputStream - myOutputStream: OutputStream - list<Message> ClientMessage