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Part (a): Relationship

**Total Actors (3):**

* Customer
* Operator
* Bank
* The relationship can be classified between actors given below:

The operator is in charge of initiating/starting the system and shutting it down.

The Customer starts a session, which is initiated by a Pin. If the Pin entered is incorrect after three continuous wrong entries, the session terminates message shows to the user “Invalid Pin”.  
Once the Customer enters valid pin, he/she can access his/her bank account, and perform the following transactions with his money in bank account:

* Withdrawal
* Deposit
* Transfer
* Inquiry

Part (c): Descriptive Use Case

|  |  |
| --- | --- |
| **Use-case** | withdrawal |
| **Primary Actor** | Customer |
| **Secondary Actor** | Bank |
| **Pre-conditions** | * Customer is logged in by entering valid pin number by using a valid ATM card. * Customer has a valid bank account |
| **Trigger:** | To withdraw money from account |
|  |  |
| **Post-Condition** | The Customer successfully withdraws money from the ATM machine. |
| **Alternative flow** | The Customer selects an amount to withdraw, but he/she does not have stated amount in his/her linked bank account:  The system shall display the available amount in the account and prompt Customer to select an appropriate amount of money (that is, within the range of available money in bank account).  The Customer selects to close session:  The system shall terminate the withdraw transaction. |