# Explain about relationships in the above use case

The **<<include>>** relationship is showing that for a **Session** use case actually includes the **Transaction** process which occurs when someone Withdraw, Deposit, Transfer or request Inquiry from the ATM system

The **<<extend>>** relationship is showing that the **Invalid Pin** process is an independent part of **Transaction** process and occurs if someone wrong pin is entered 3 times.

# Write descriptive use case for withdrawal use case

|  |  |
| --- | --- |
| **Primary actor** | Customer |
| **Goal** | To withdraw present cash from the bank’s ATM machine |
| **Preconditions** | 1. Customer has an account 2. ATM machine has actual cash 3. Customer has an ATM card 4. Customer has the withdraw amount in his/her account |
| **Trigger** | Customer inserts the ATM card and select withdraw option |
| **Scenario** | 1. The customer inserts ATM card in the ATM machine 2. The system starts a session 3. The ATM system ask for PIN 4. The customer enters PIN 5. The system checks if PIN validity and invalid count and terminates the process if invalid count reaches 3 6. The system displays options on PIN successful verification 7. The customer selects ‘Withdraw’ option 8. The system asks amount to withdraw 9. The customer enters withdraw amount 10. The system check if amount is actually present in customers account 11. The system checks amount present in the machine 12. The system deduct the withdraw amount from customers account 13. The system give back the ATM card and receipt 14. The system gives out the requested cash 15. The customer takes the cash 16. The system terminates the session |
| **Exceptions** | 1. Requested amount not present in users account 2. Requested amount not present in ATM machine 3. User cancels the transaction 4. Invalid PIN Entered 3 times |