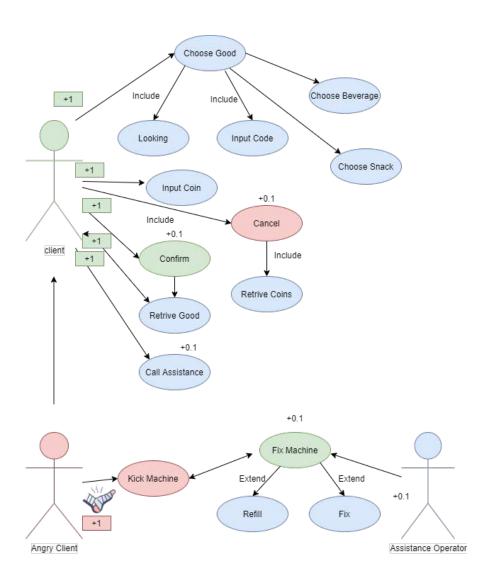
Q1: Draw Use Case diagram

Propose a use case diagram for a vending machine that sells beverages and snacks. Make use of inclusion and extension associations and remember that a vending machine may need technical assistance from time to time.

Name: Moeez Ahmad ID: 14435

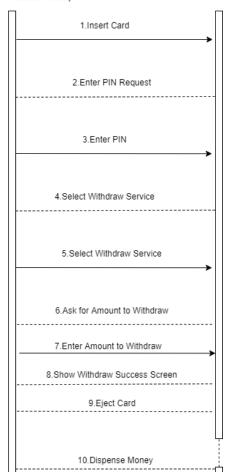


Q2: Draw Sequence Diagram Model a scenario of the Withdraw Money use case of a Bank ATM system. The user is able to make withdrawal of money. The system employs a standard procedure of validating the card and account holder's password.

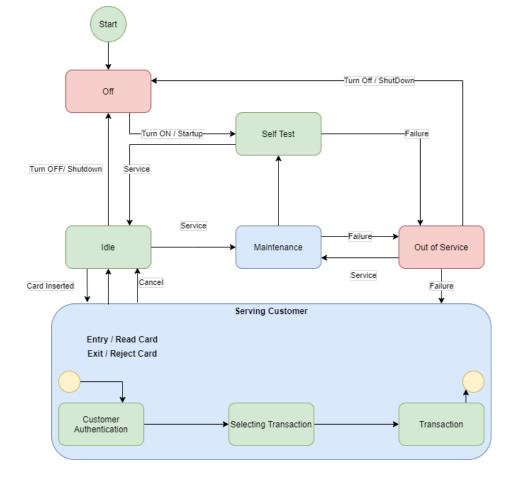
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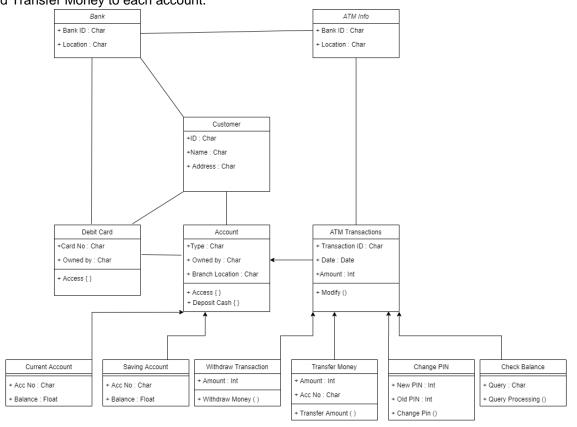
Withdraw Money



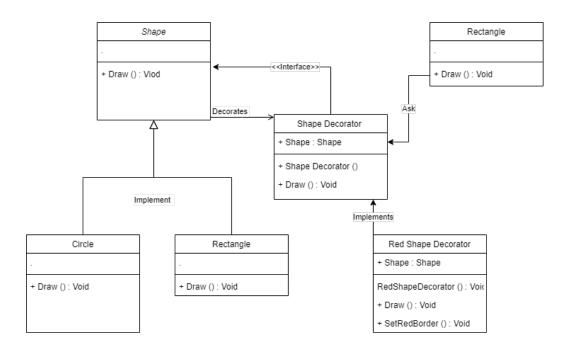
Name: Moeez Ahmad ID: 14435



Q4: Draw Class Diagram
Illustrate Class diagram for ATM Machine. The various Classes involved in the system are: Bank, Account, Customer Info, Debit Card, Current Account, Saving Account, ATM Info, ATM Transaction, Withdraw Transaction, Change Pin, Transfer Money, Check Balance. The Bank maintains personal and ATM information of each customer. The customer can access their account using Debit Card issued by the Bank. In this system there could be two types of Account: Current Account and Saving Account. Both use to share many of the properties and methods. The ATM Machine can perform multiple transactions such as Withdrawing cash, change pin, check balance and Transfer Money to each account.



Q5: Design Pattern
Suppose we have the following java files. Identify the pattern also Considering the java files draw class diagram.



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