EXPERIMENT 4

Question:

Draw a UML diagram for ATM System using CASE tool. The banking system allows a customer to access the financial transactions by ATM System, it has a step-by-step process describe the work of this process and elaborate the what are the work can do by customer, banking system, administrator and technicians with the ATM system.

Aim:

To design a **Class Diagram** for an **Online Airline Reservation System** that effectively models the system's structure and interactions. The diagram will represent key entities, their attributes, and the relationships among them to ensure a well-defined and efficient airline booking process.

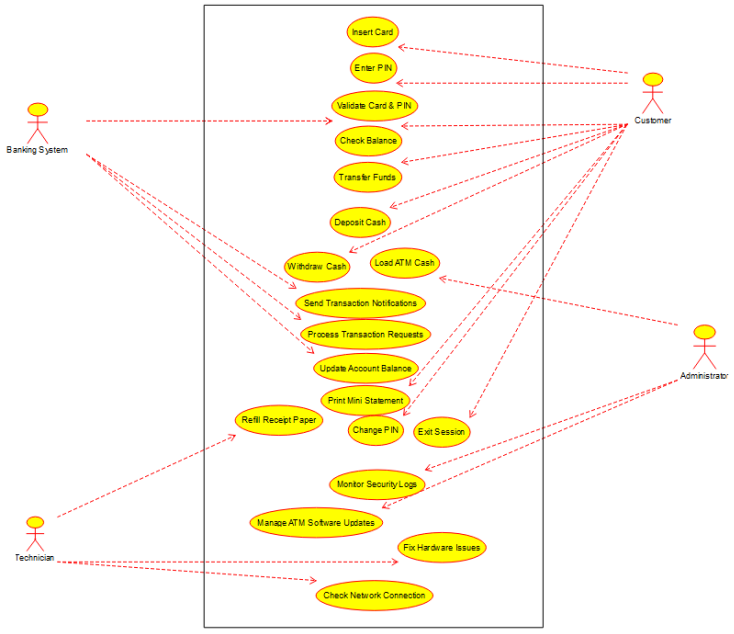
Procedure:

1. **Customer Interaction:**
    - Inserts ATM card
    - Enters PIN for authentication
    - Validates card & PIN with the banking system
2. **Transaction Options:**
    - Check account balance
    - Transfer funds
    - Deposit cash
    - Withdraw cash
3. **Banking System Processing:**
    - Sends transaction notifications
    - Processes transaction requests
    - Updates account balance
4. **Additional Customer Functions:**
    - Print mini statement
    - Change PIN
    - Exit session

5. **Administrator Functions:**
    - Load ATM cash
    - Monitor security logs
6. **Technician Functions:**
    - Refill receipt paper
    - Manage ATM software updates
    - Fix hardware issues
    - Check network connection

Output:

Usecase Diagram



Result

A structured UML diagram for the ATM System is created, illustrating interactions between the Customer, Banking System, Administrator, and Technician. It represents key processes such as card validation, balance inquiry, fund transfer, cash withdrawal, deposit, PIN change, and transaction processing. Additionally, it includes administrative functions like cash loading and security monitoring and technician tasks such as receipt paper refilling, software updates, and hardware maintenance, ensuring seamless ATM operations.