

4. 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 **UML Diagram** for an **ATM System** using a CASE (Computer-Aided Software Engineering) tool, which illustrates the interactions between the customer, banking system, administrator, and technicians with the ATM system.

1. PROCEDURE:

Identify the Main Actors

- **Customer:** The person using the ATM for financial transactions.
- **Banking System:** The backend system that verifies transactions.
- **Administrator:** Manages system configurations and security.
- **Technician:** Handles hardware maintenance and error handling.

2. **Define the Functionalities (Use Cases)**

- **Customer Functionalities:**
 - Insert Card & Enter PIN
 - Withdraw Cash
 - Deposit Money
 - Check Balance
 - Transfer Funds
 - Print Mini-Statement
- **Banking System Functionalities:**
 - Authenticate User
 - Approve Transactions
 - Update Account Balance
 - Log Transaction Details
- **Administrator Functionalities:**
 - Manage User Accounts
 - Set Transaction Limits

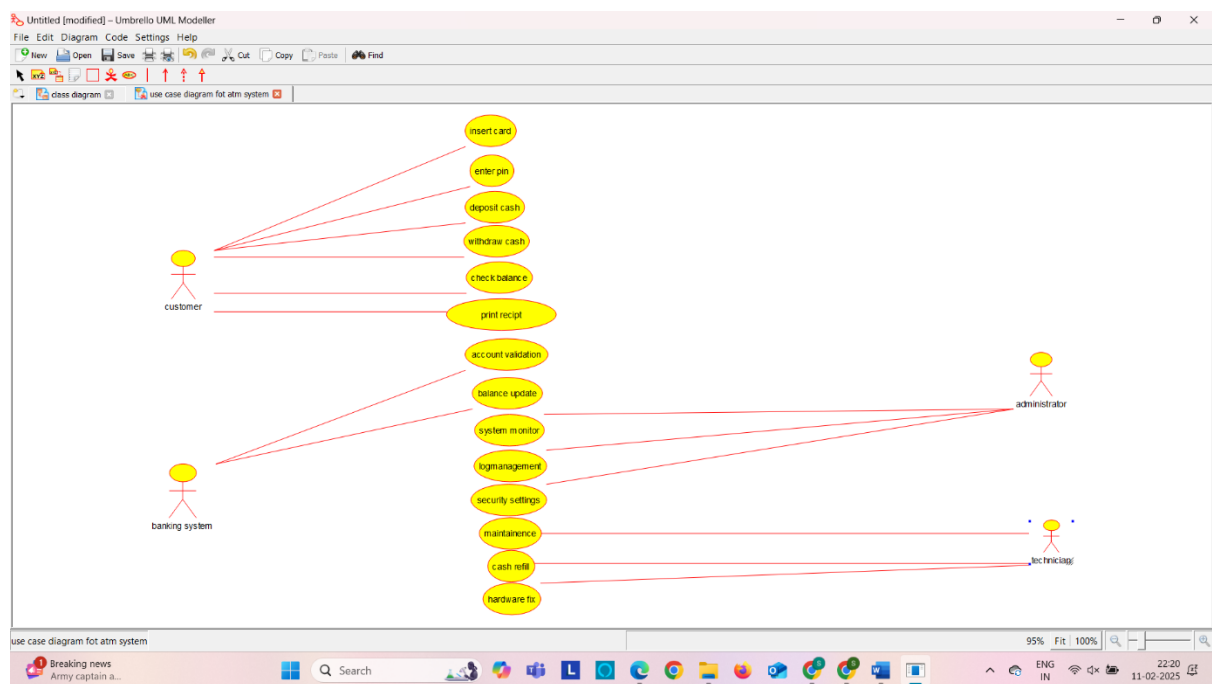
- Monitor ATM Activities
- **Technician Functionalities:**
 - Load/Refill Cash
 - Maintain ATM Machine
 - Fix Technical Issues

3. Create the UML Diagram Using a CASE Tool

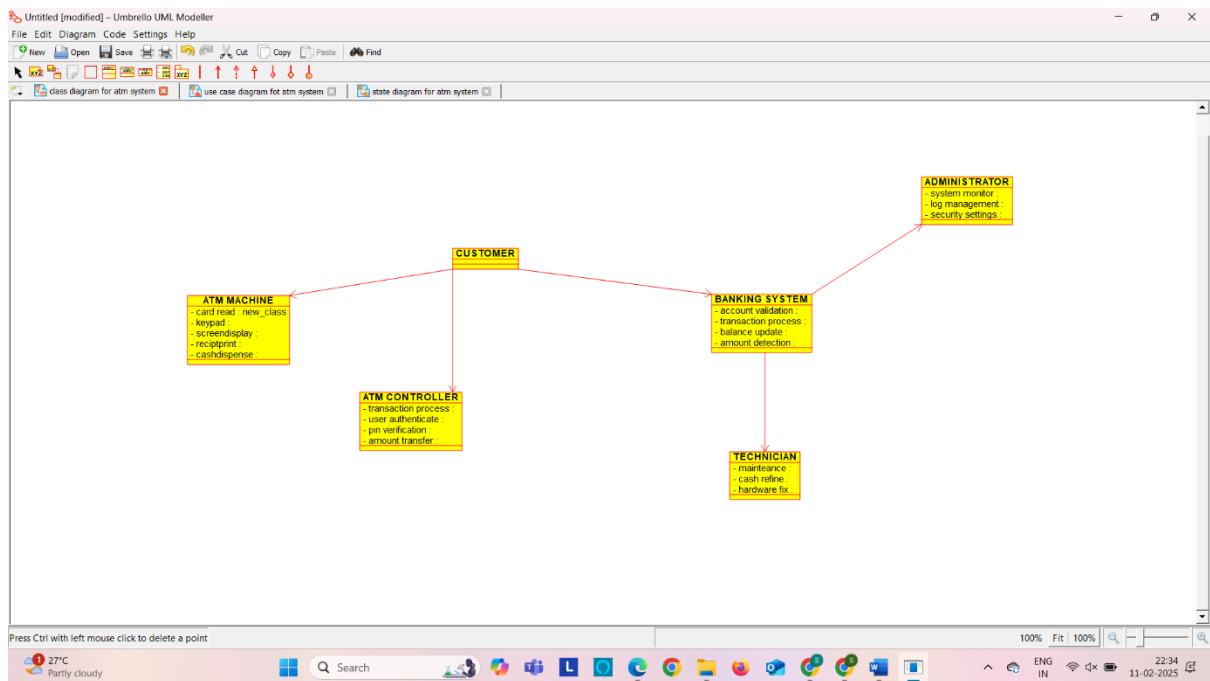
- Use **Use Case Diagram** to represent interactions.
- Draw **Class Diagram** to show the system's structure.
- Implement **Activity Diagram** for step-by-step workflows.
- Design **Sequence Diagram** to show the message flow.

OUTPUT:

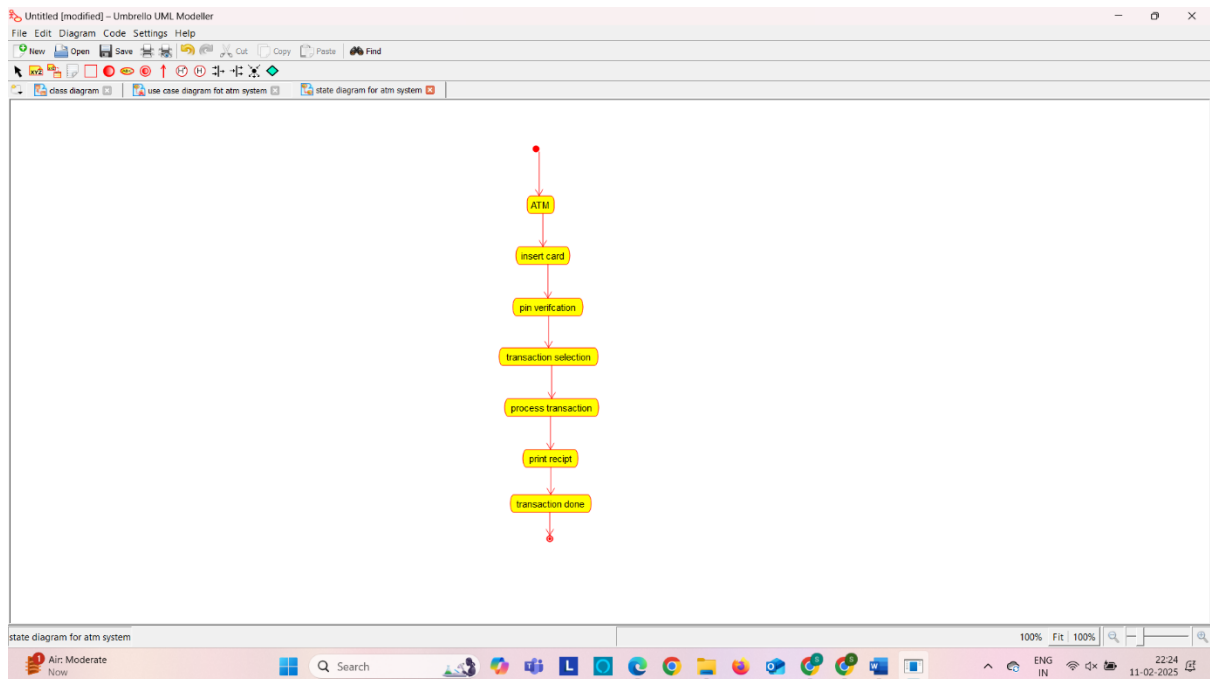
Usecase diagram



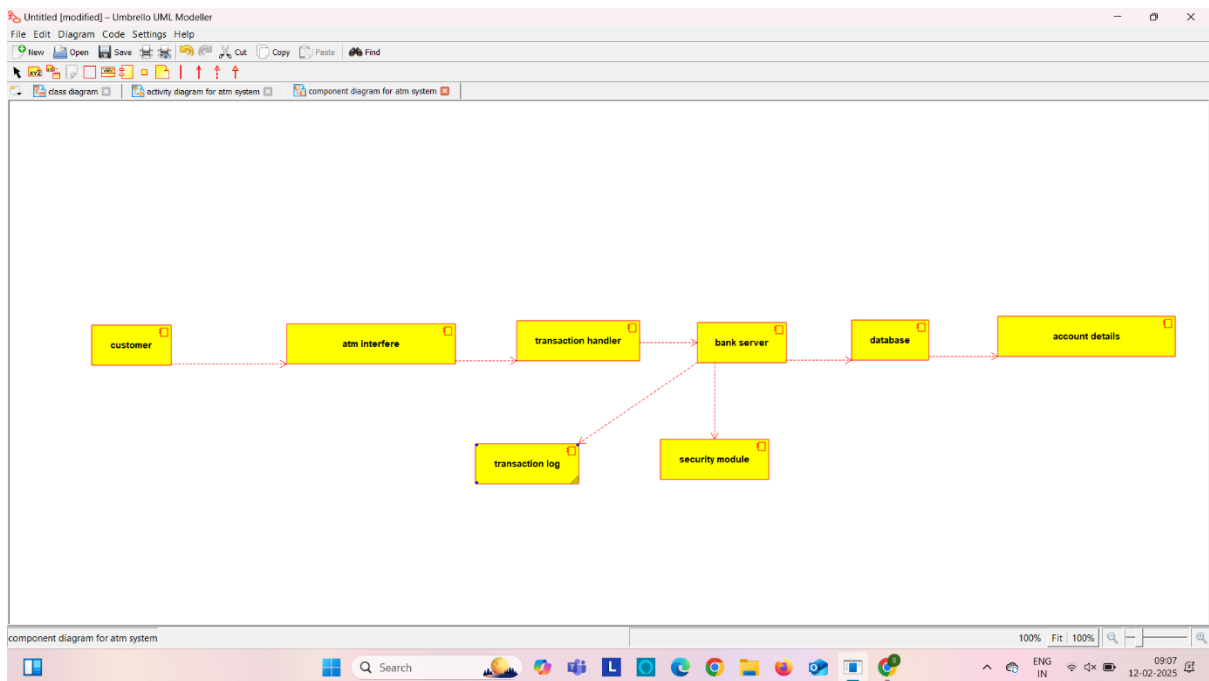
Class diagram



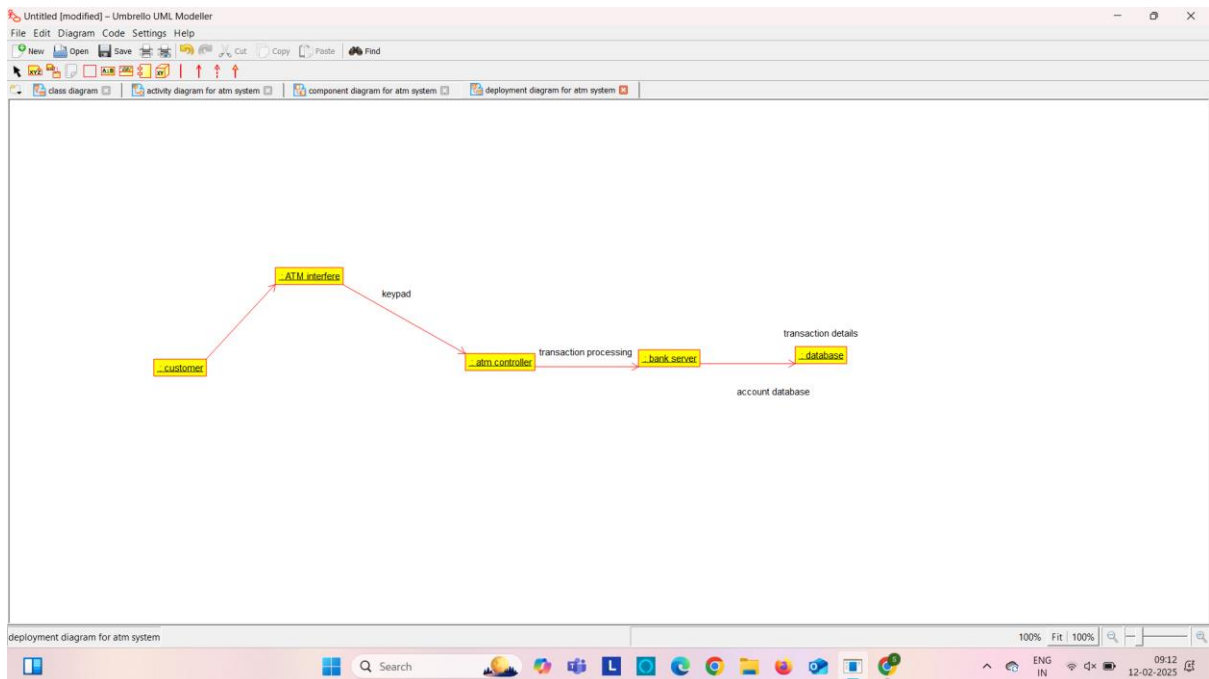
State diagram



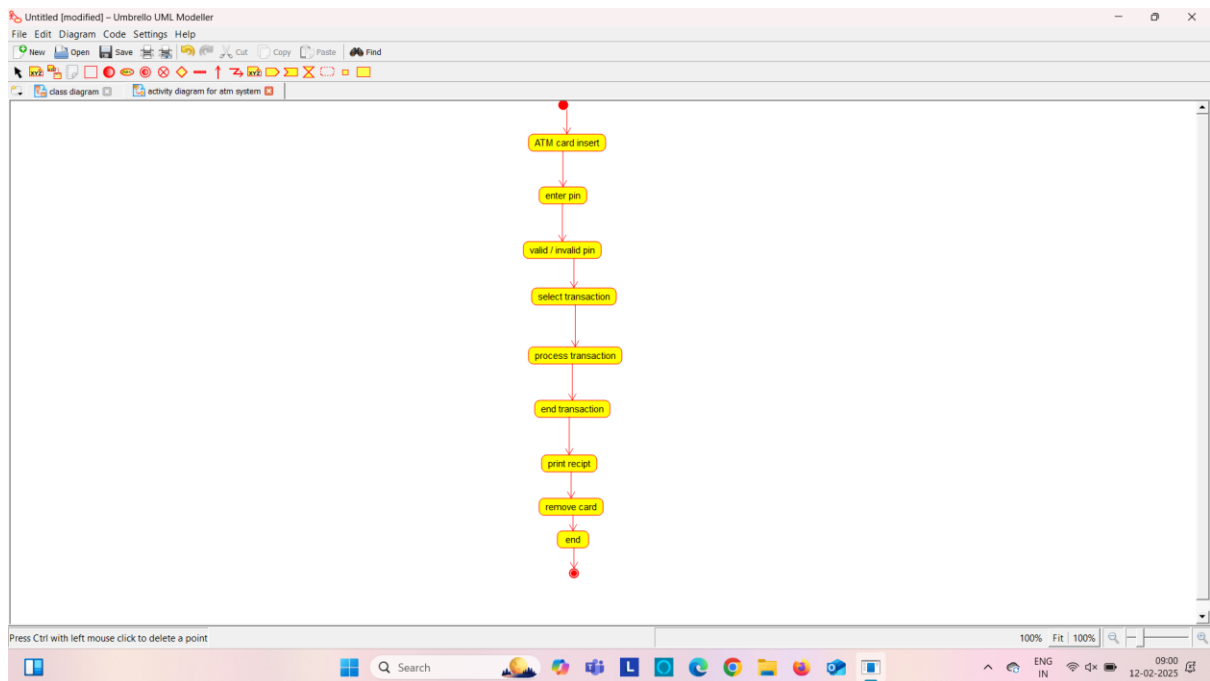
Component diagram



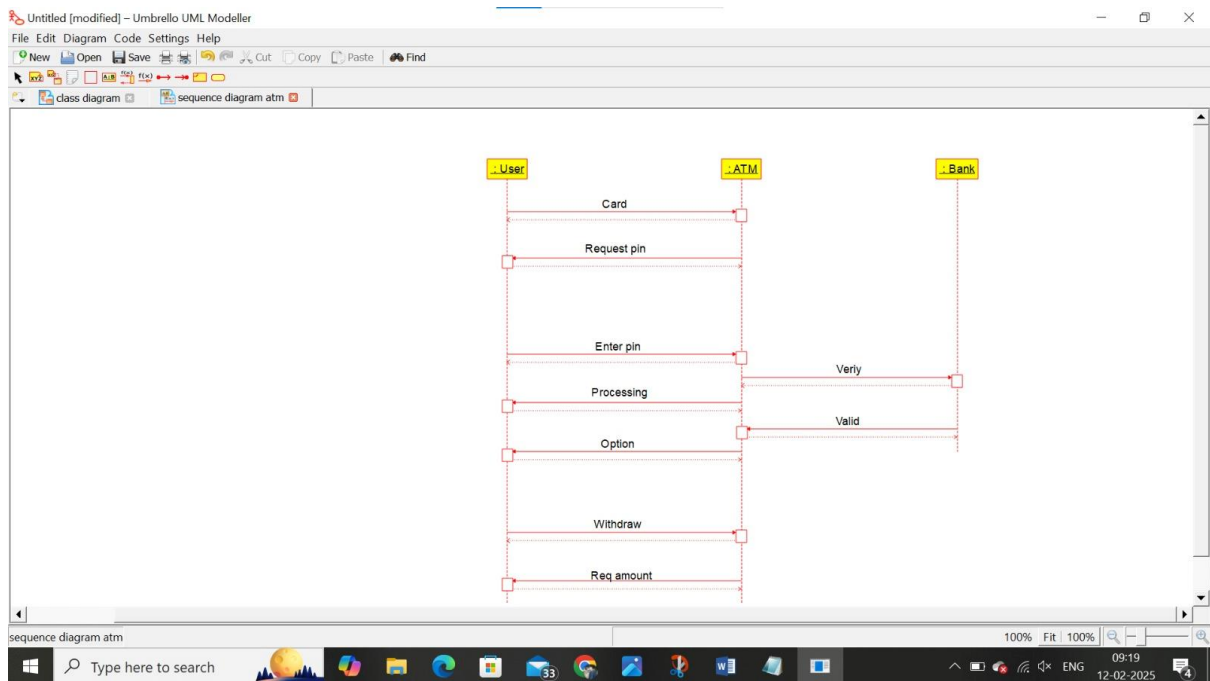
Deployment diagram



Activity diagram



Sequence diagram



RESULT:

Thus the UML diagrams for ATM system has been successfully developed.