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.

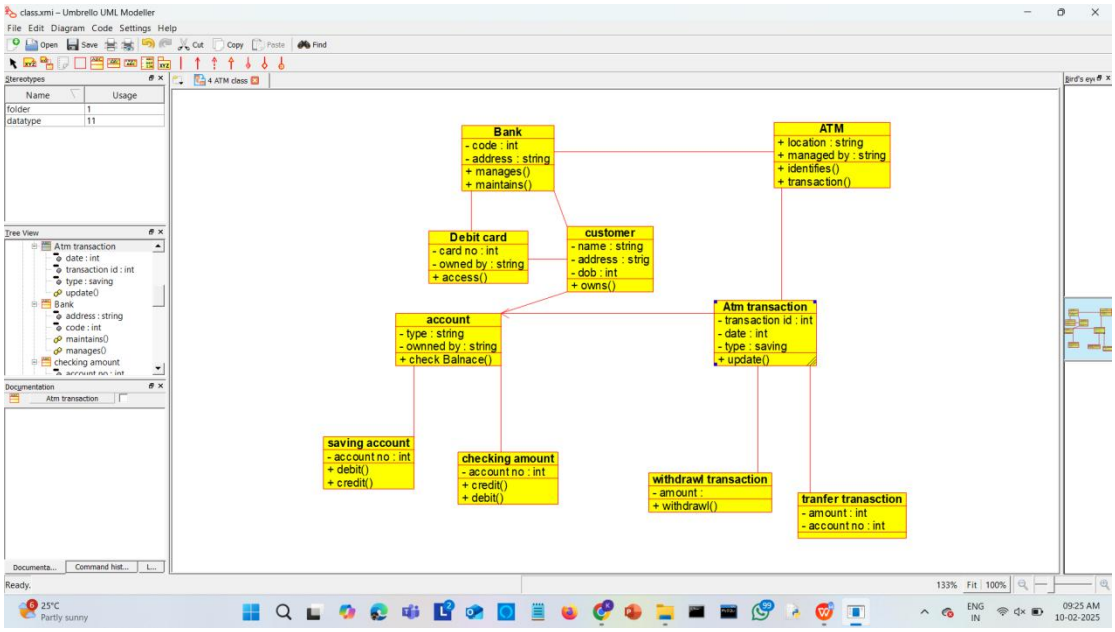
AIM: To design a UML diagram for an ATM System that models interactions among customers, the banking system, administrators, and technicians.

Procedure :

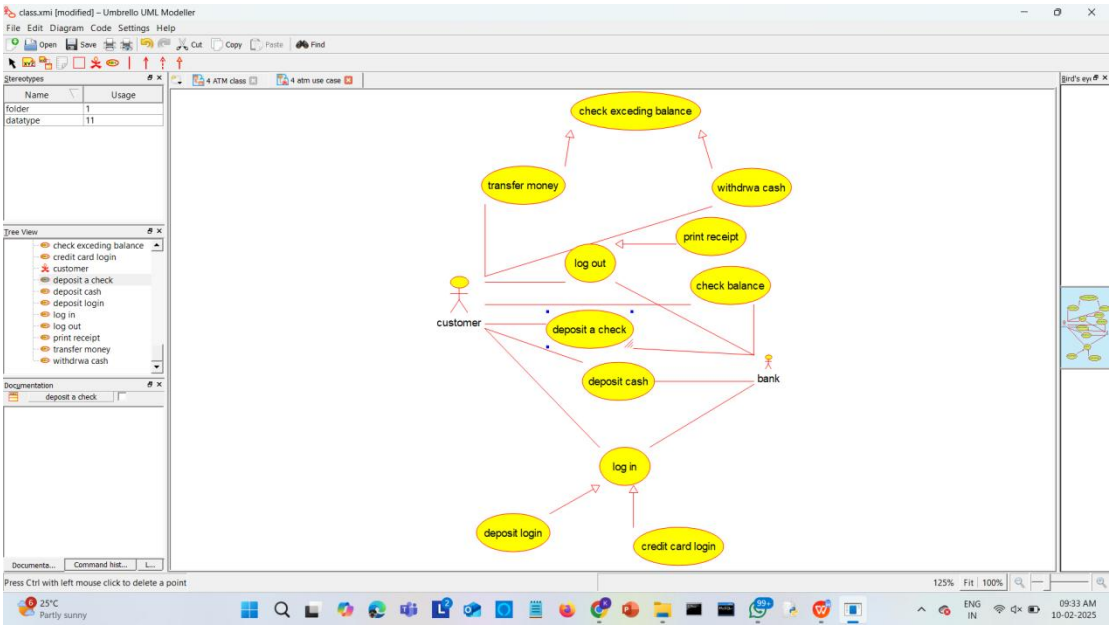
- Identify key actors: Customer, Banking System, Administrator, and Technician.
- Define system functionalities such as Withdraw Cash, Check Balance, Deposit Money, and Transfer Funds.
- Model relationships between actors and use cases, such as customer accessing financial services.
- Include additional administrative functions such as Maintain ATM, Update Software, and Audit Transactions.
- Identify technician tasks like Repair Hardware and Reload Cash.
- Draw a Use Case Diagram illustrating actors, use cases, and relationships.
- Ensure the diagram follows UML conventions and captures all functional interactions.

UML Diagrams:

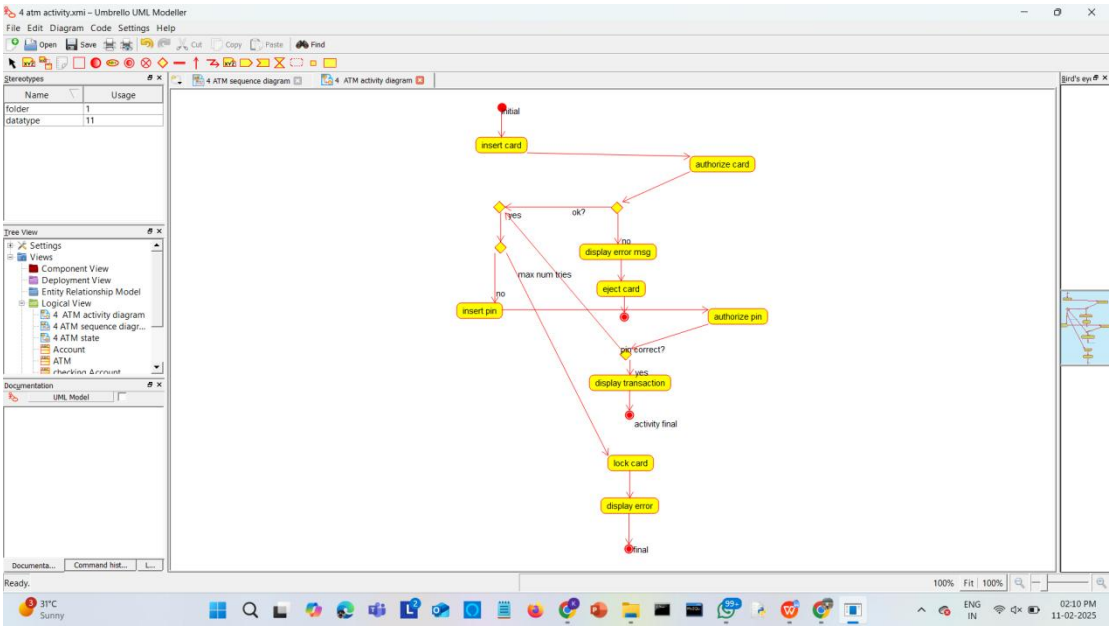
Class



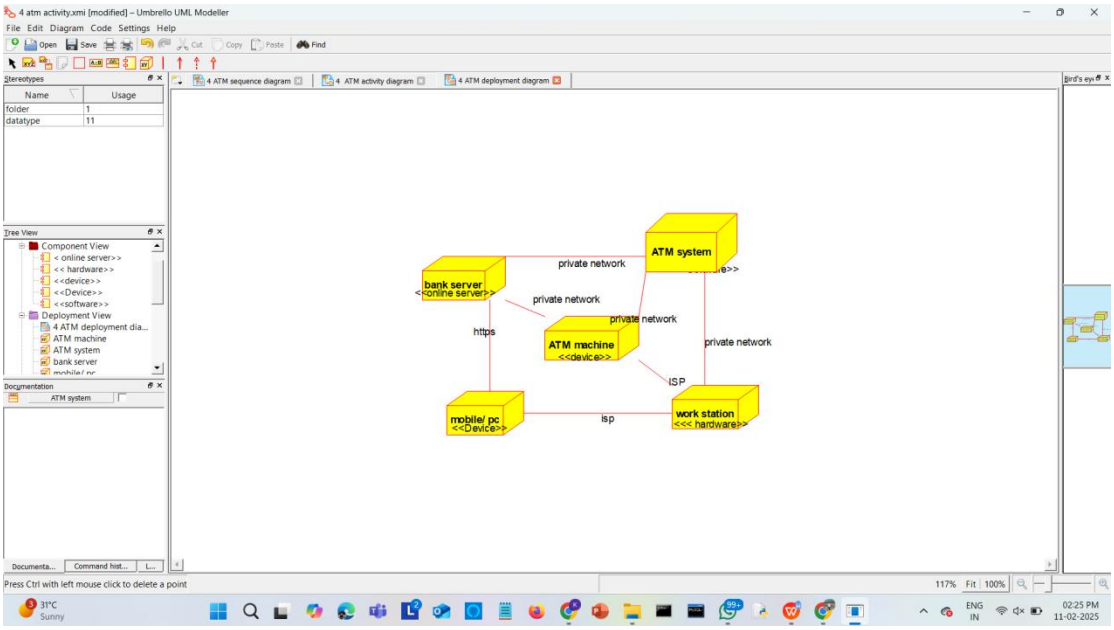
Use case



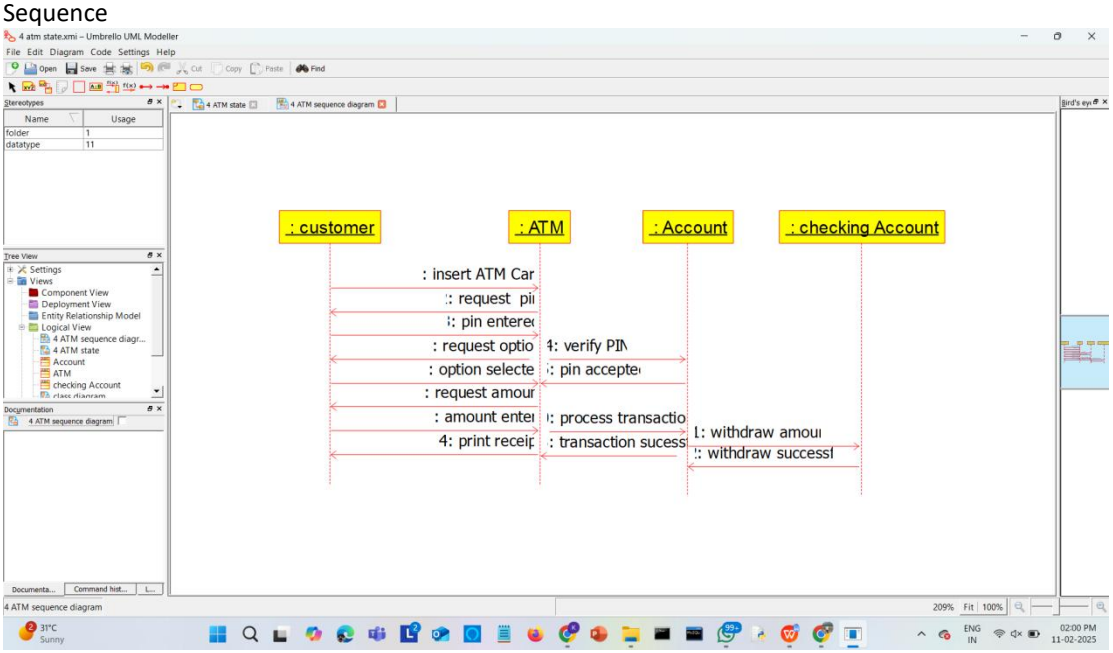
Activity diagrams



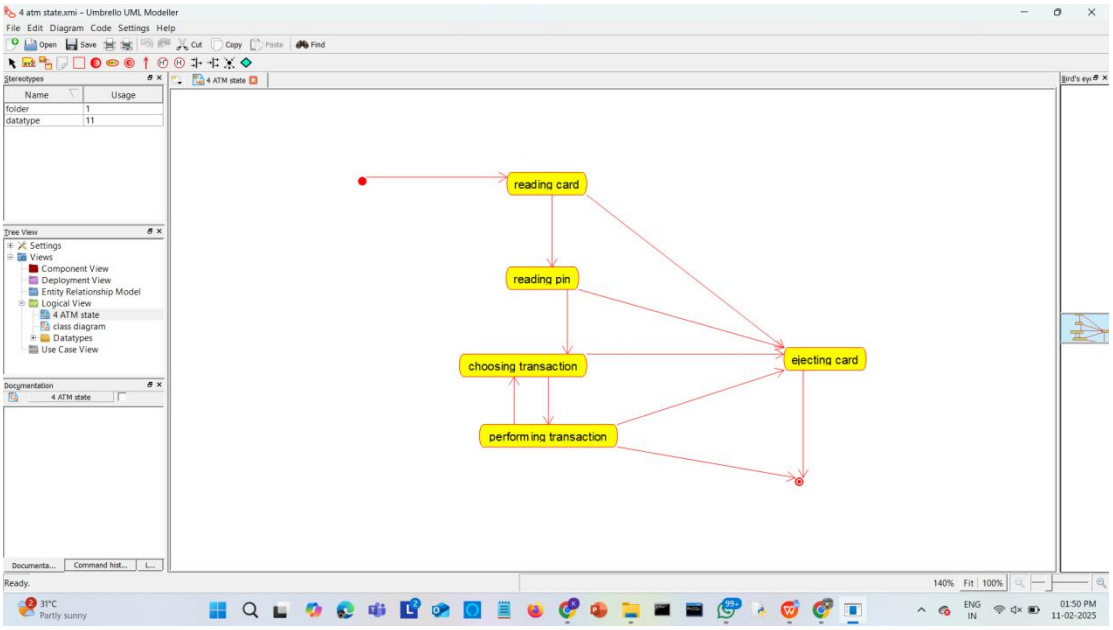
Deployement



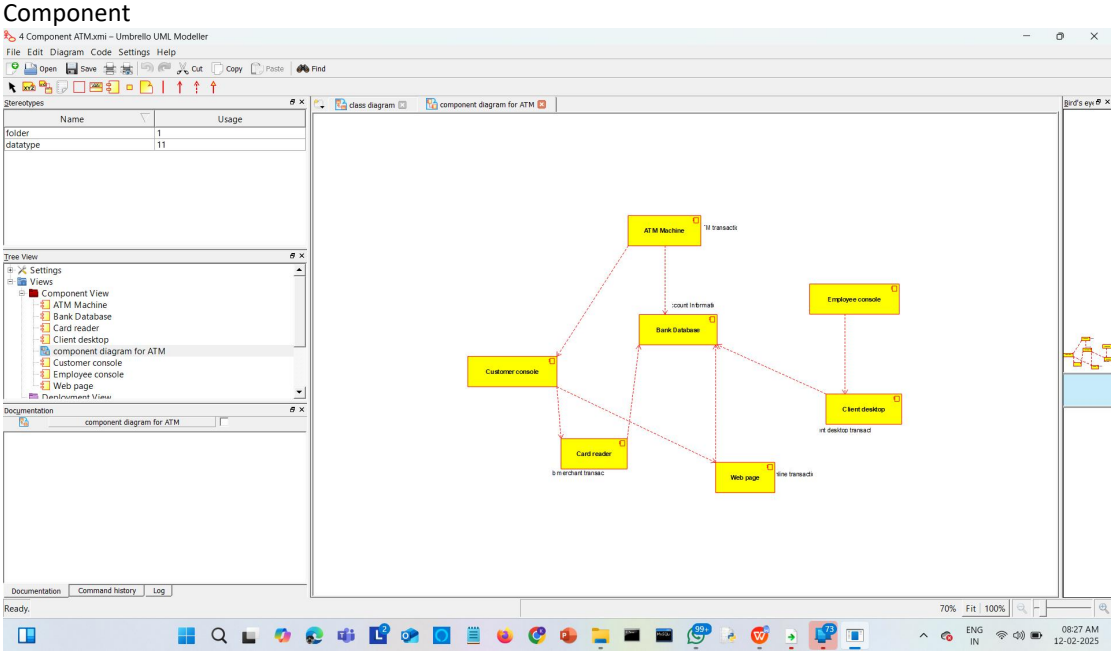
Sequence



State diagram



Component



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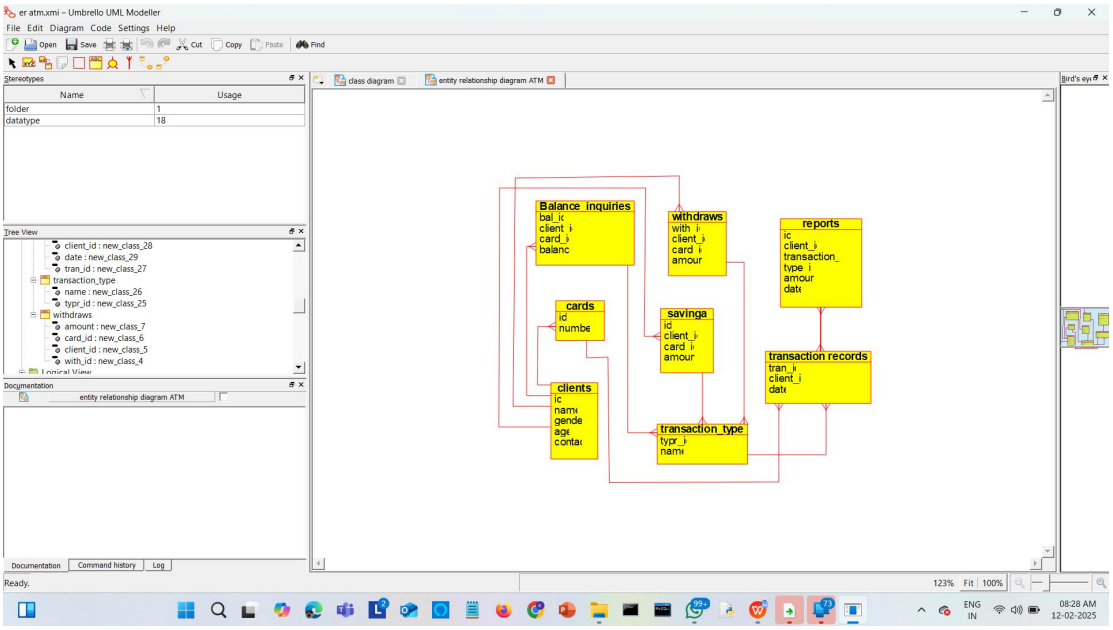
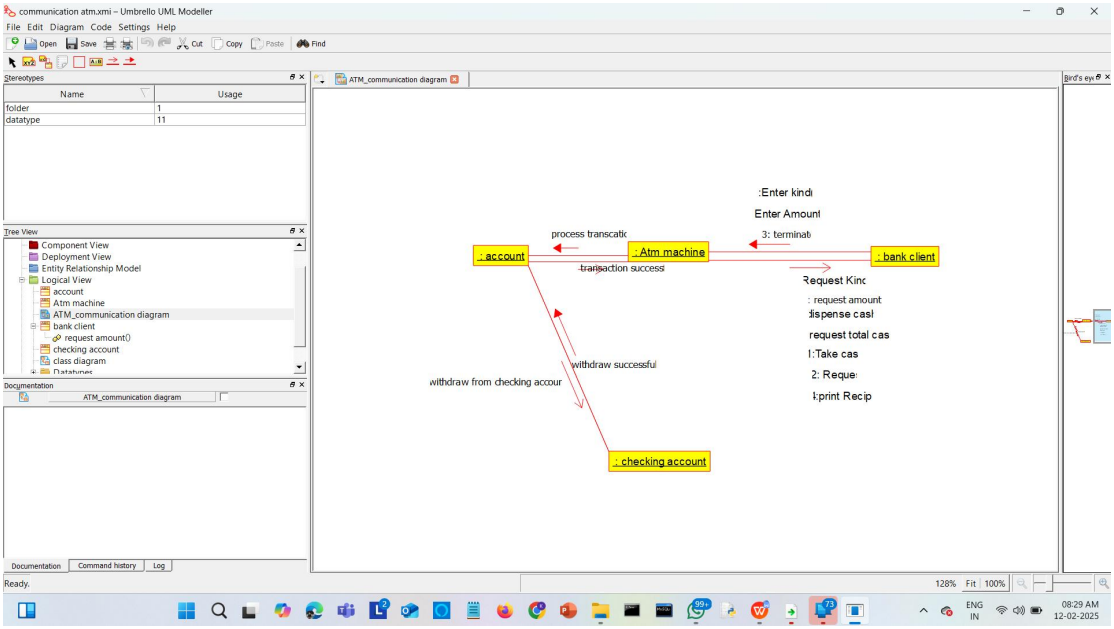


Commmunication



Result

The UML diagram for the ATM system was successfully designed, visualizing user interactions, banking operations, administrative controls, and technician roles to maintain system efficiency and reliability.