

Experiment -1

Draw a UML diagram for the hotel reservation system. In a hotel reservation system, a customer can make online booking for a hotel, by specifying the accommodation requirements such as type of room (AC/Non-AC, One bed/two bed), total no of rooms, duration of stay. The system selects a suitable hotel as per customer's requirements. If a hotel is found then the availability of rooms in that hotel is checked. The charges are calculated for the selected requirement and these are acknowledged to the customer. If the customer is satisfactory about the selection made by the system, then he confirms the reservation.

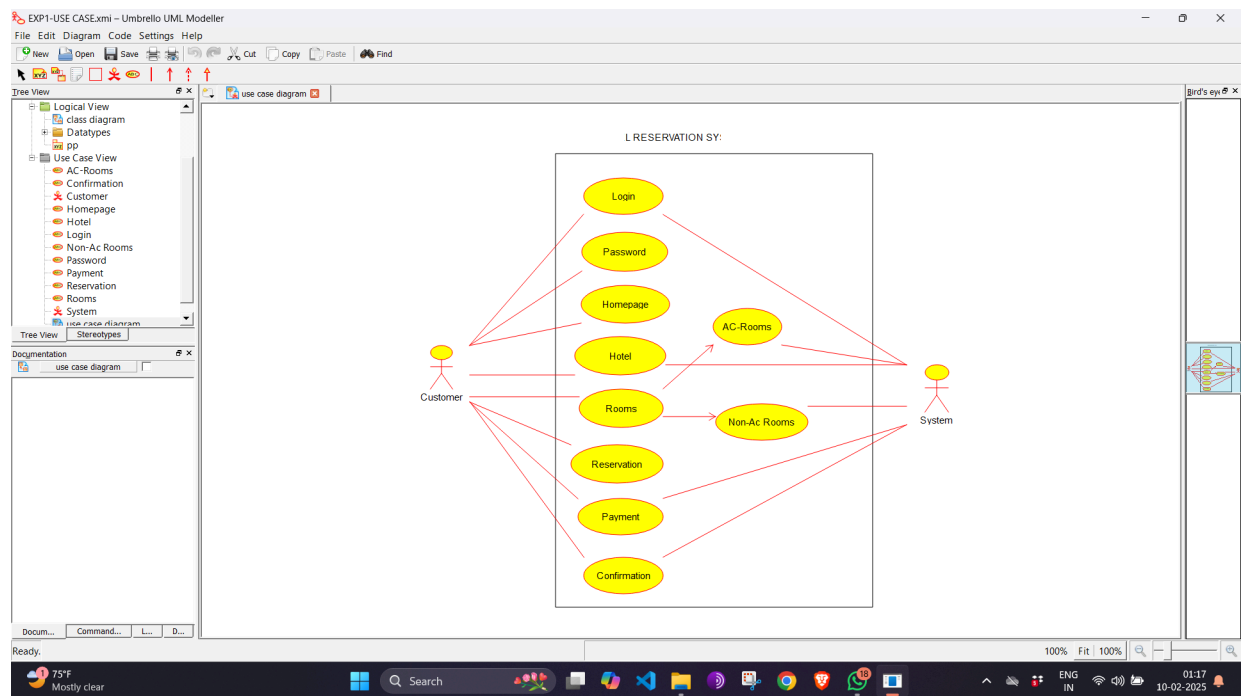
Aim:

To design a **UML diagram** for a **Hotel Reservation System** that allows customers to book hotel rooms online by specifying accommodation preferences. The system processes these requirements, selects a suitable hotel, checks room availability, calculates charges, and allows the customer to confirm the reservation.

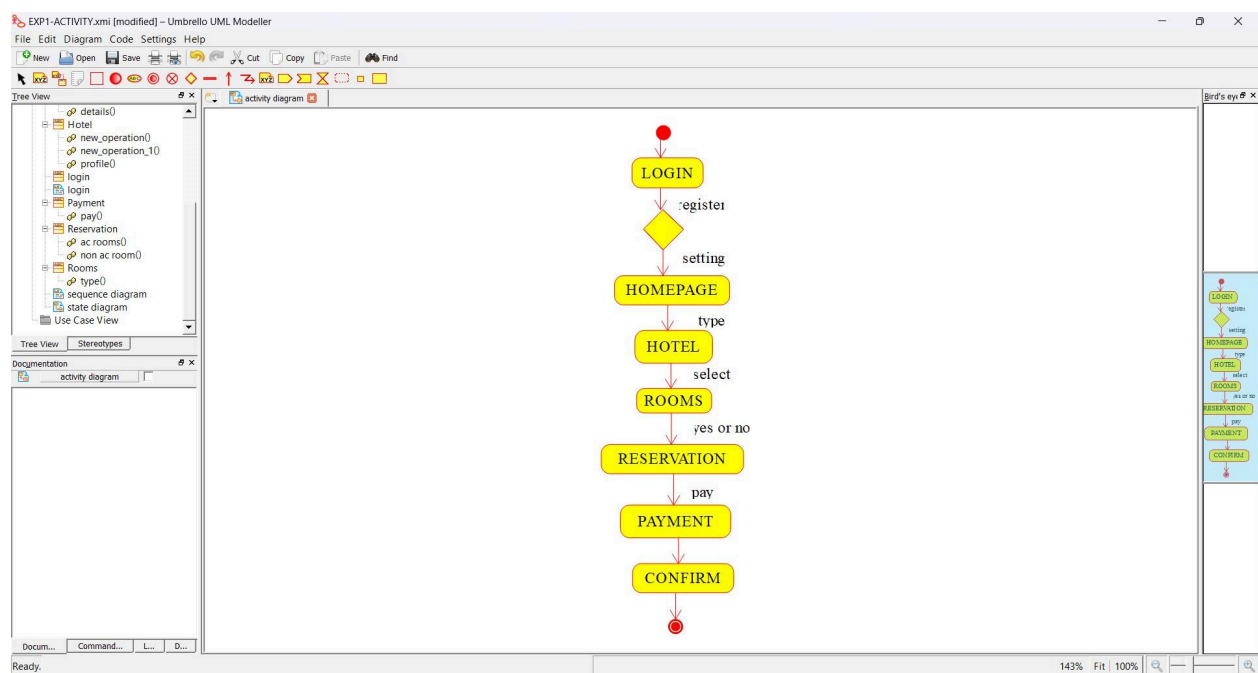
Procedure:

1. Understand the system requirements.
2. Identify key actors and entities.
3. Create a Use Case Diagram to represent system interactions.
4. Design a Class Diagram to define system structure.
5. Develop a Sequence Diagram to show interaction flow.
6. Use a UML tool Umbrello to draw diagrams.
7. Review and finalize the diagrams for accuracy.

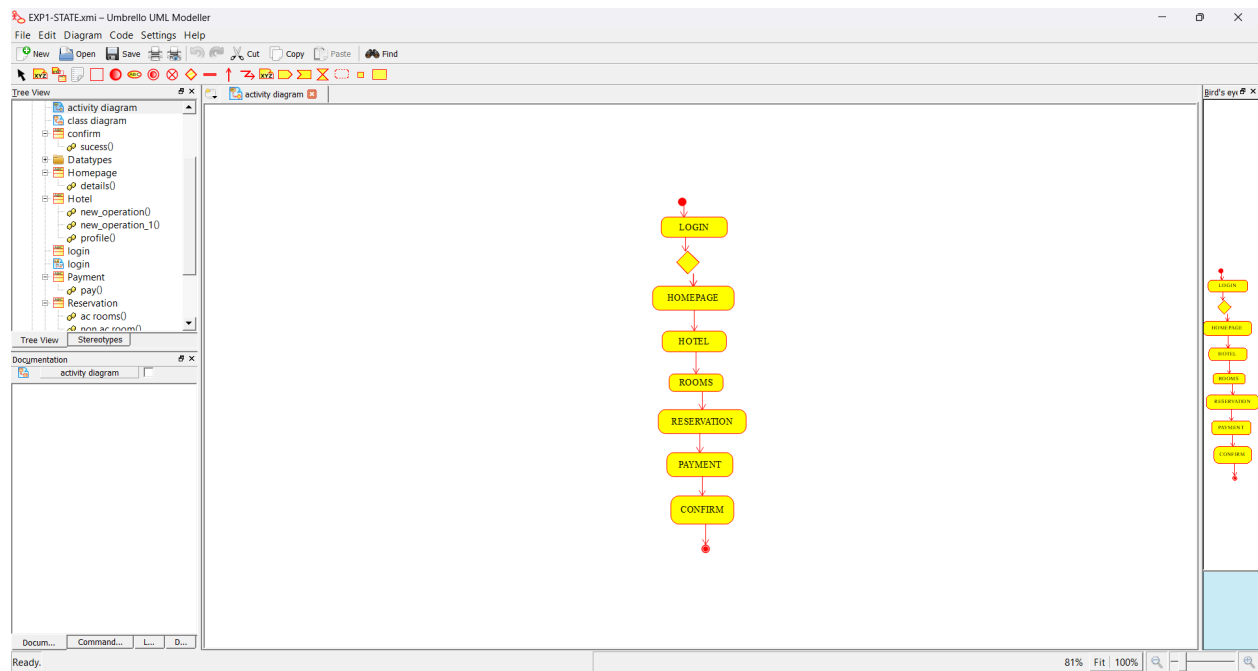
USE CASE DIAGRAM:



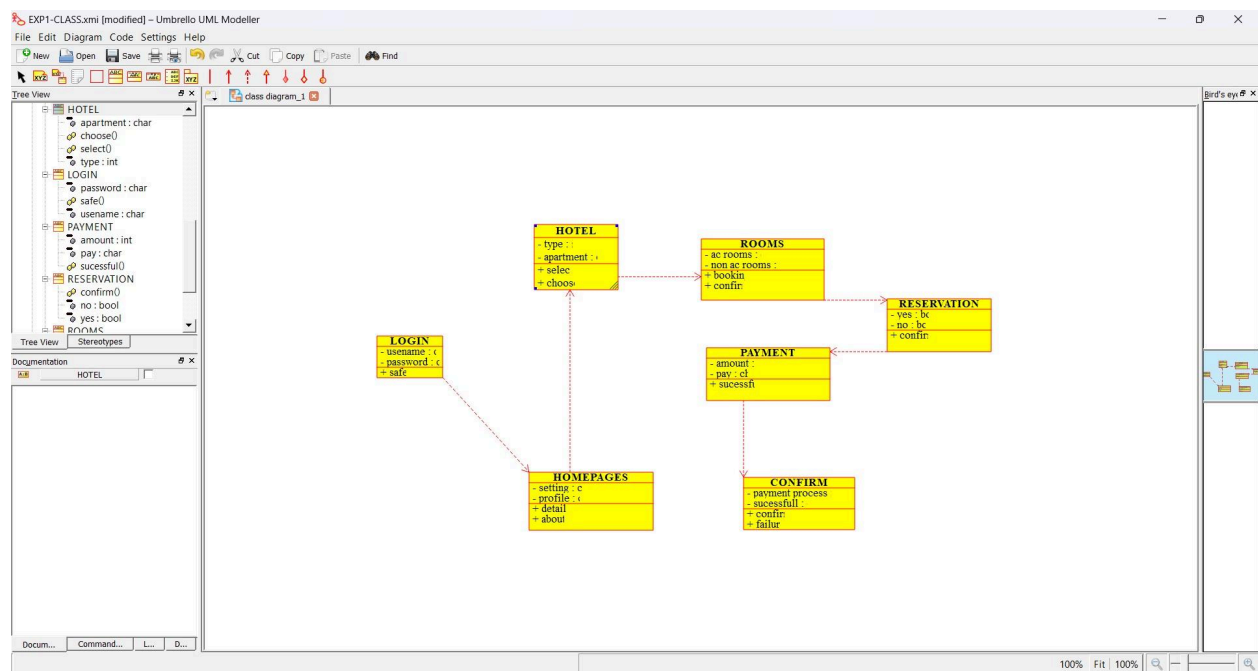
ACTIVITY DIAGRAM:



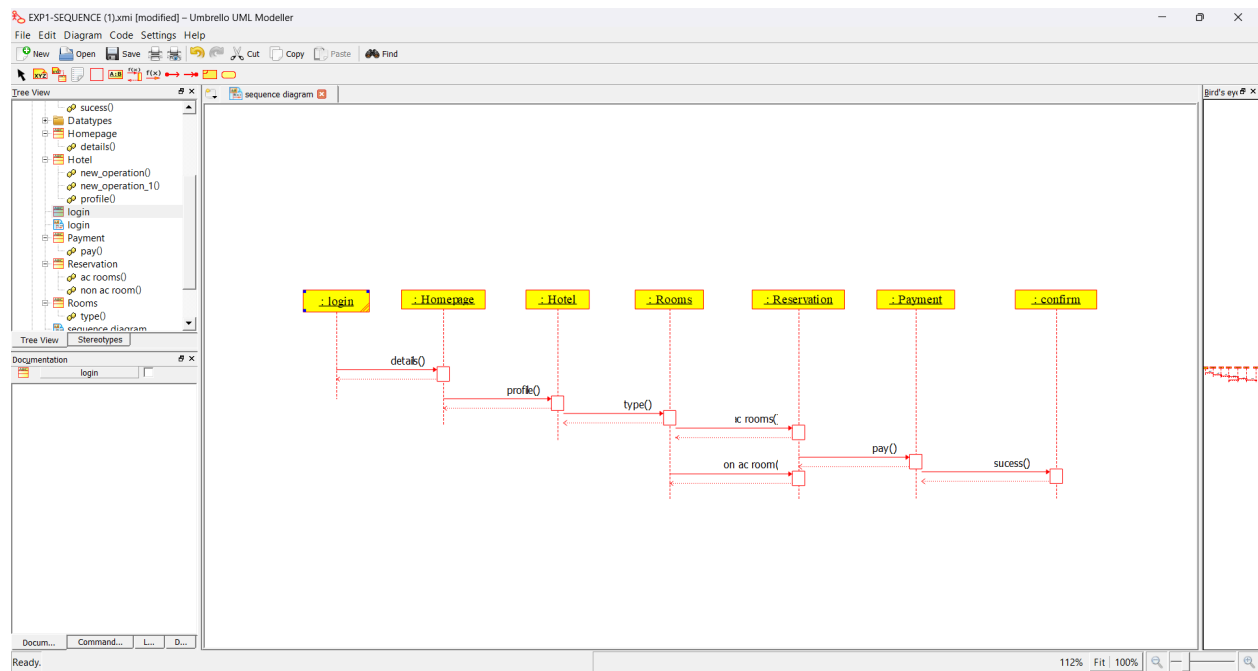
STATE DIAGRAM



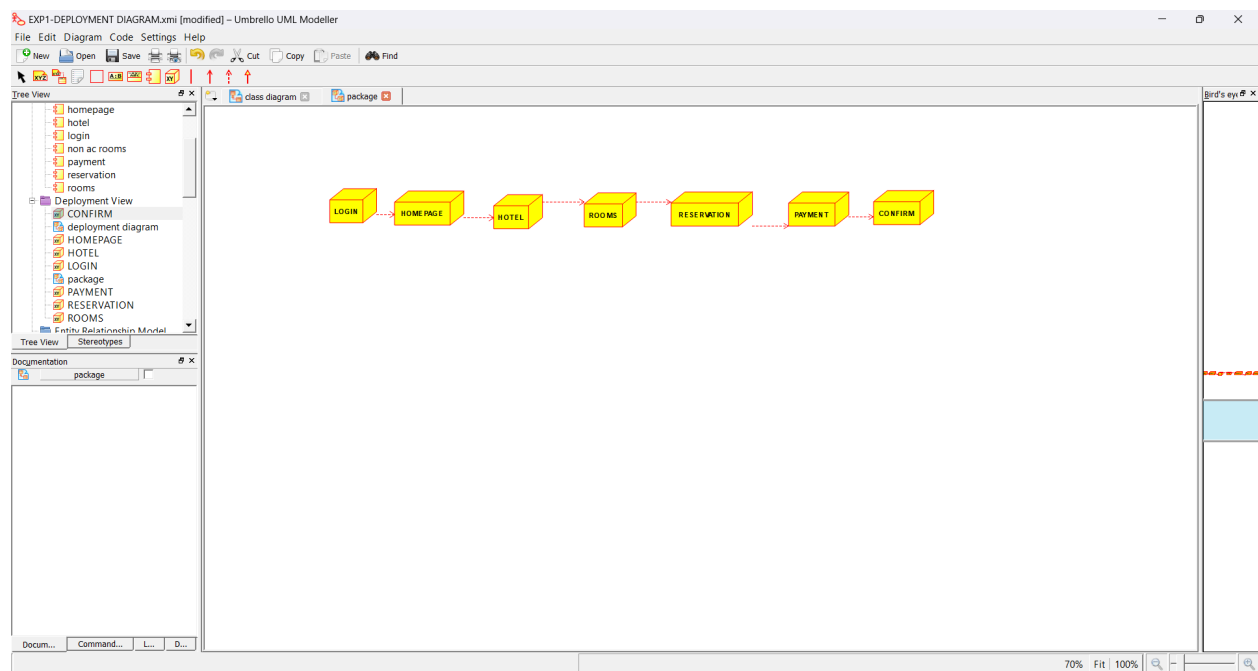
CLASS DIAGRAM:



SEQUENCE DIAGRAM



DEPLOYMENT DIAGRAM



Result:

A **UML diagram** for the **Hotel Reservation System** has been successfully designed, depicting system components and their interactions for seamless online booking.