

EXERCISE.NO:1

Draw a UML diagram for 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.

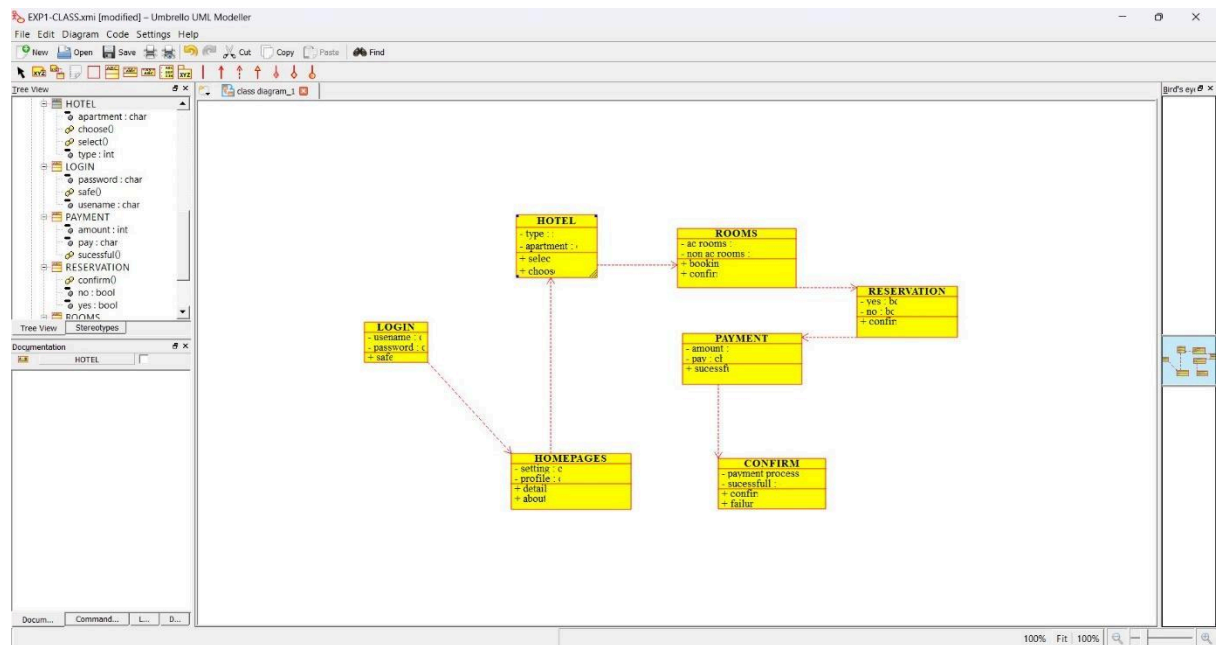
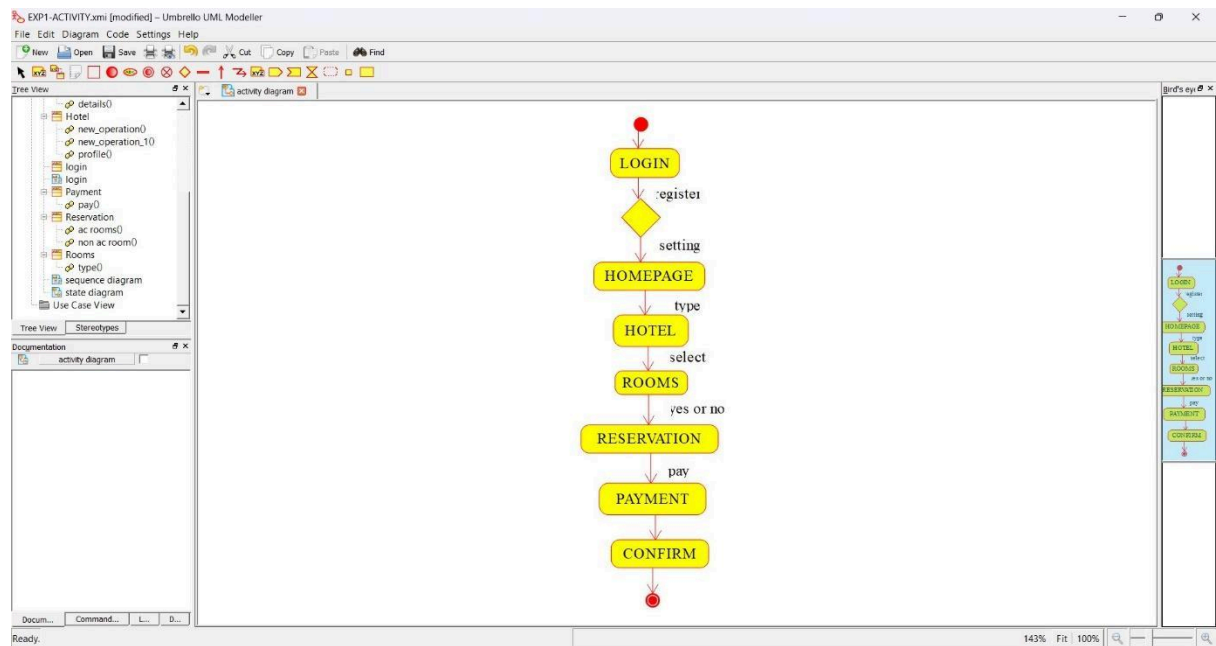
AIM:

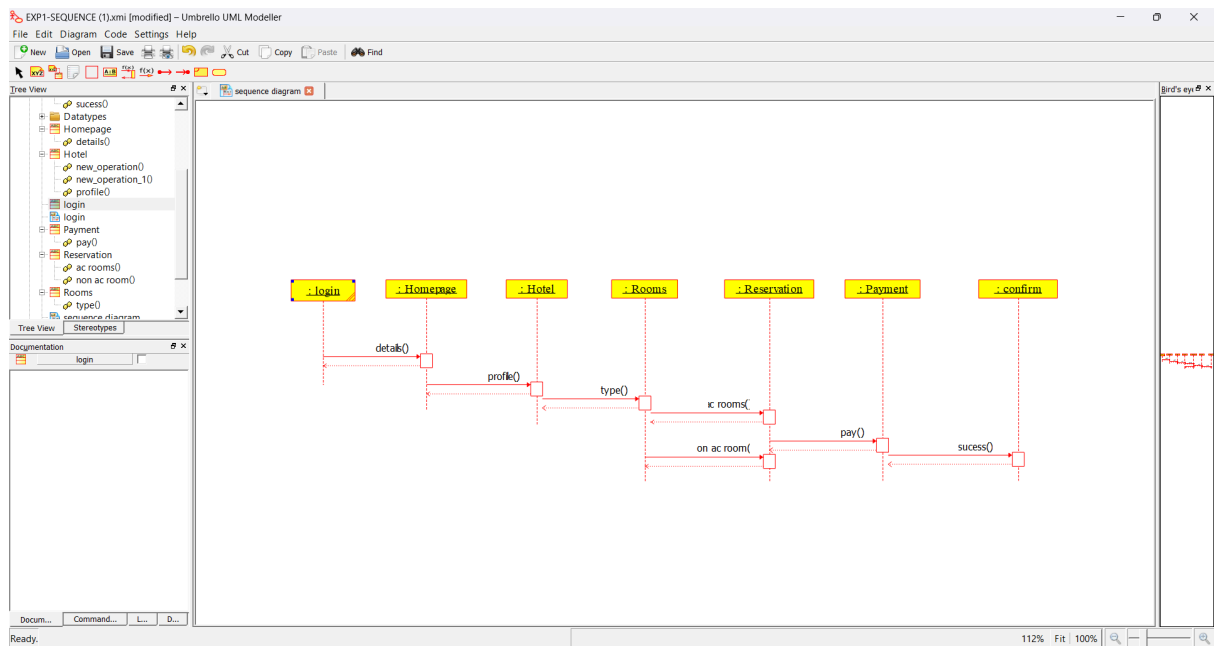
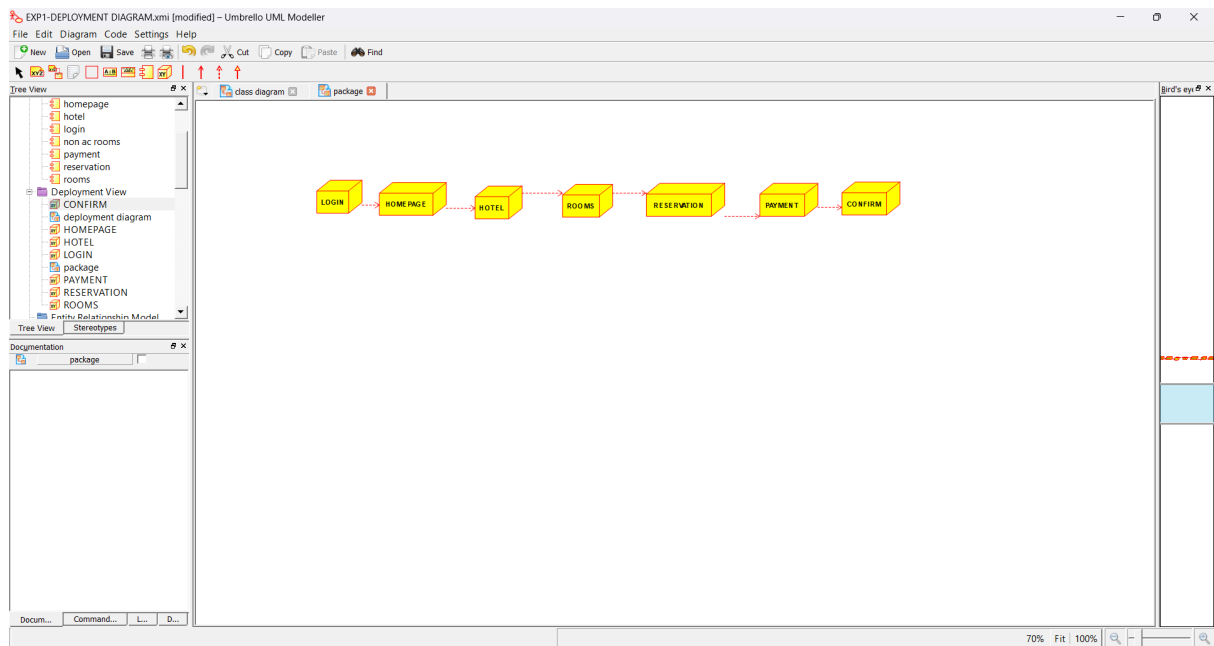
To design and represent a Hotel Reservation System using a UML Class Diagram that captures the core functionalities of the system, including hotel selection, room booking, payment processing, and customer management.

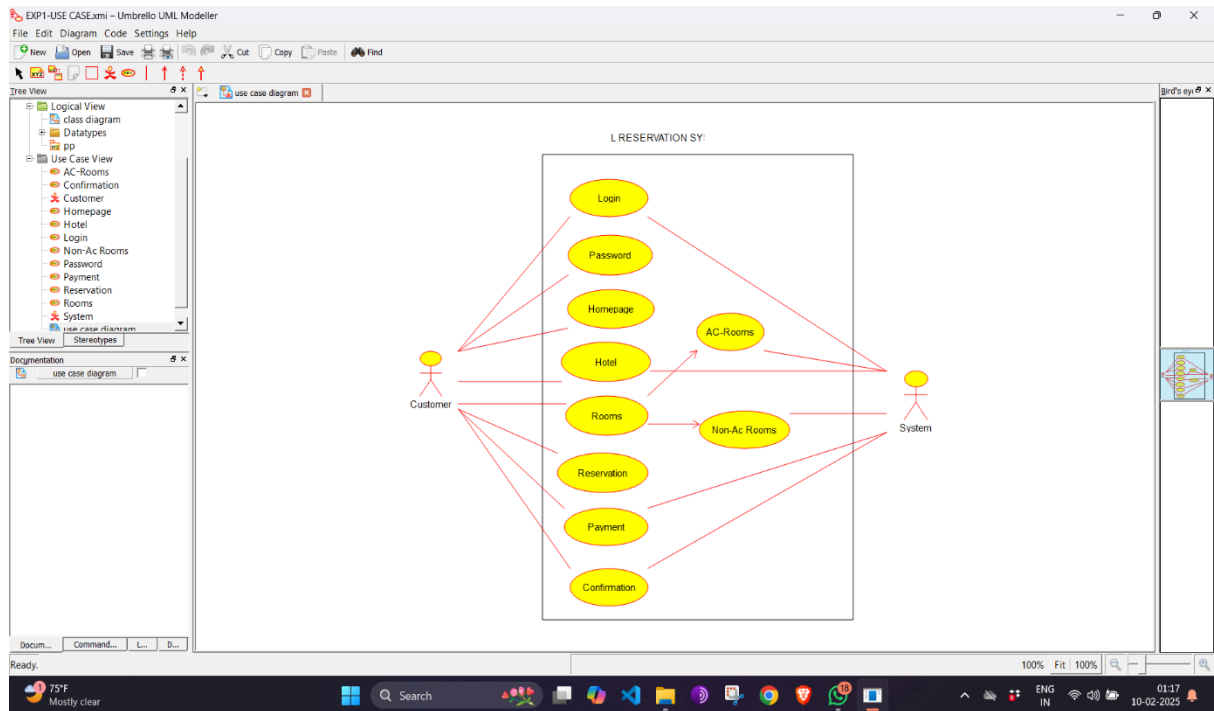
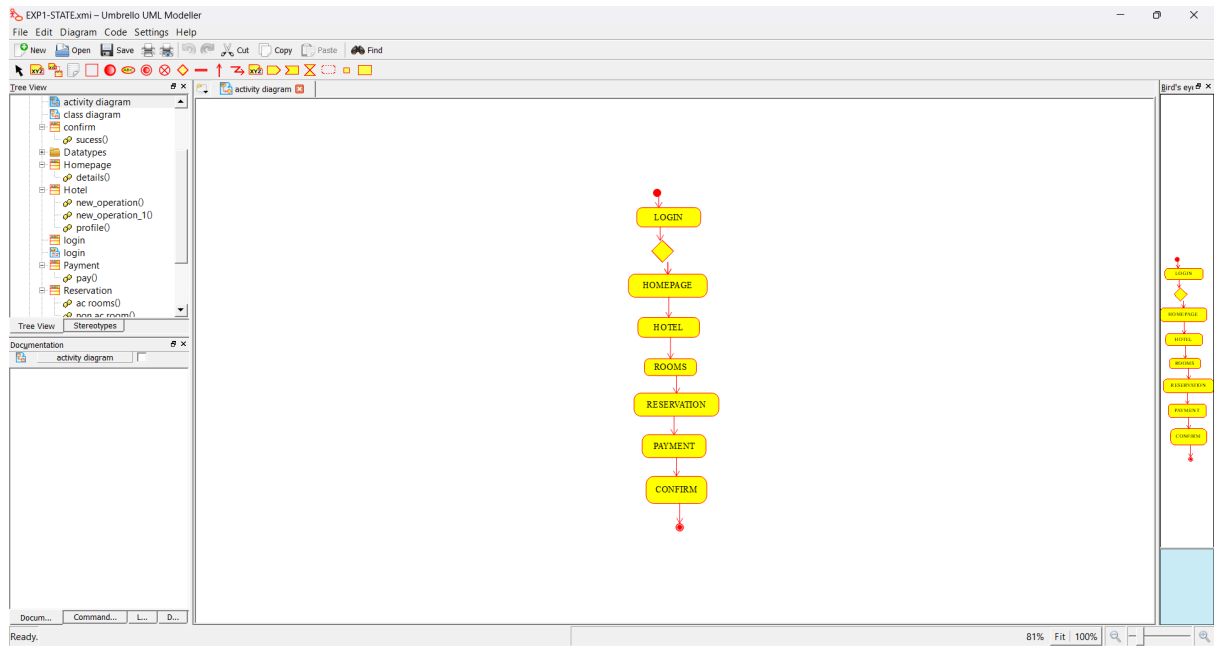
PROCEDURE:

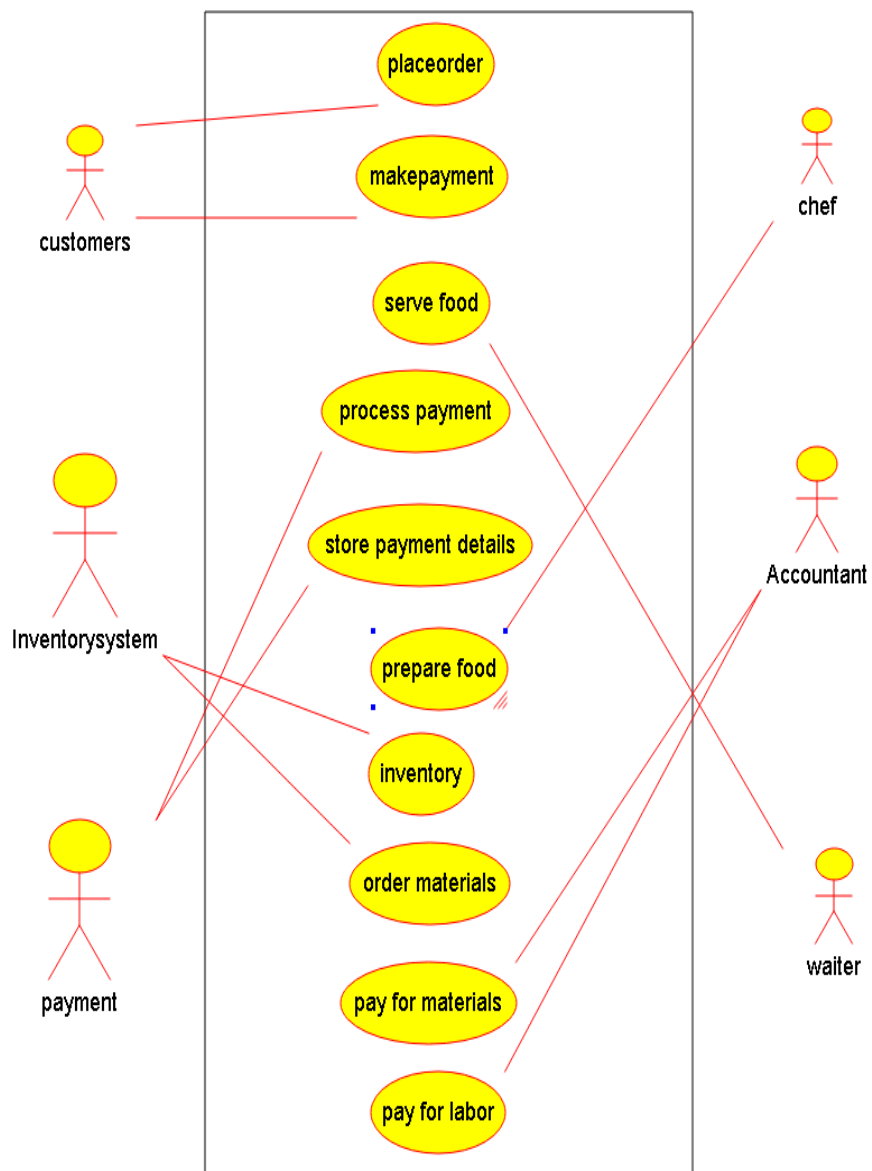
1. Understand the key functionalities, including customer registration, hotel search, room booking, and payment processing.
2. Identify key classes (Customer, Hotel, Room, Booking, and Payment) and define their attributes and methods.
3. Establish relationships between classes using association (e.g., a Customer makes a Booking), aggregation (e.g., a Hotel consists of multiple Rooms), and dependency (e.g., Search depends on Hotel).
4. Design the UML diagram by representing classes with their attributes and methods and drawing appropriate relationships using connectors like association, aggregation, and composition.
5. Review and finalize the UML diagram to ensure it accurately models system requirements and properly defines all interactions.

DIAGRAM:









RESULT:

Thua the UML diagram for hotel reservation system has been implemented successfully.