3.) Make an Online Airline Reservation System. The activities of the Online Airline Reservation system are listed below user, admin, LOGIN, MANANGE CLASSES, MANANGE WAITING LIST, MANAGE HOLDS, MANAGE DEADLINES, LOGOUT, using this has a step-by-step process draw a CLASS diagram.
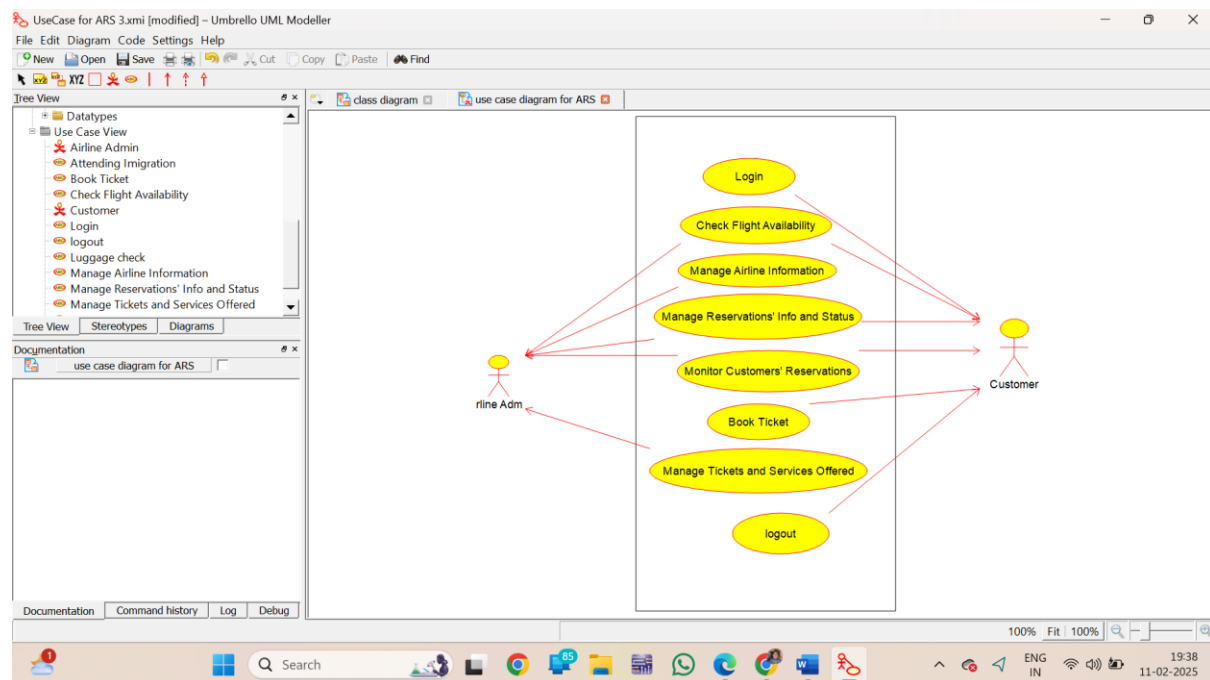
Aim:

To design an Online Airline Reservation System using a class diagram that represents the interactions between users, admin, and key management functionalities.
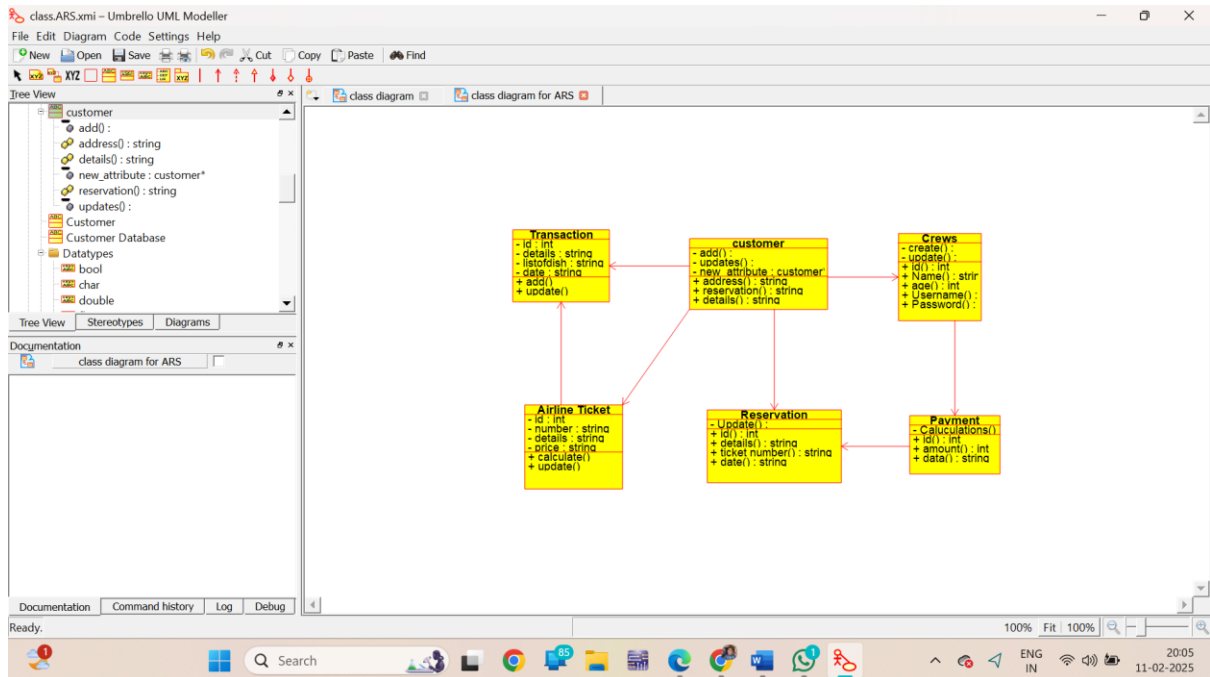
Procedure:

1. Identify key entities such as User, Admin, Flight, Reservation, and Payment.

2. Define relationships between entities (e.g., User books a Flight, Admin manages Classes).

3. Add attributes and methods to each class relevant to their functionality.

4. Establish associations, generalization, and dependencies.

5. Represent different management functionalities (Waiting List, Holds, Deadlines) as related classes.

6. Ensure modularity and scalability of the class structure.

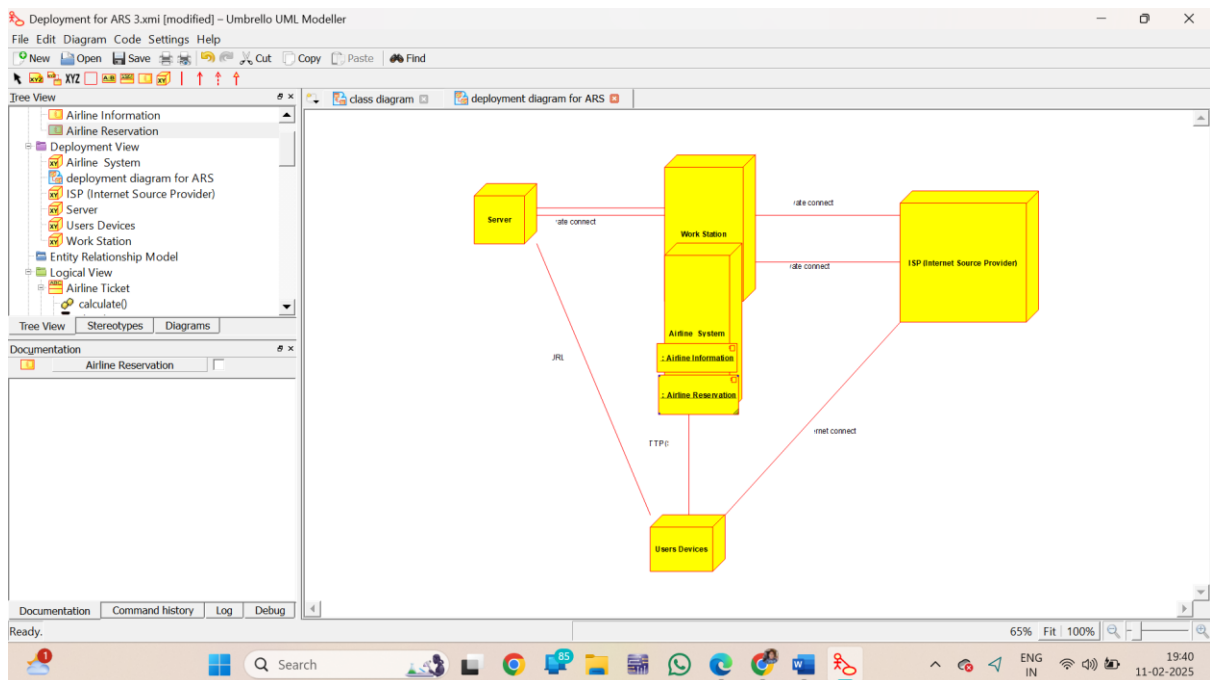7. Verify the class diagram for completeness and correctness.
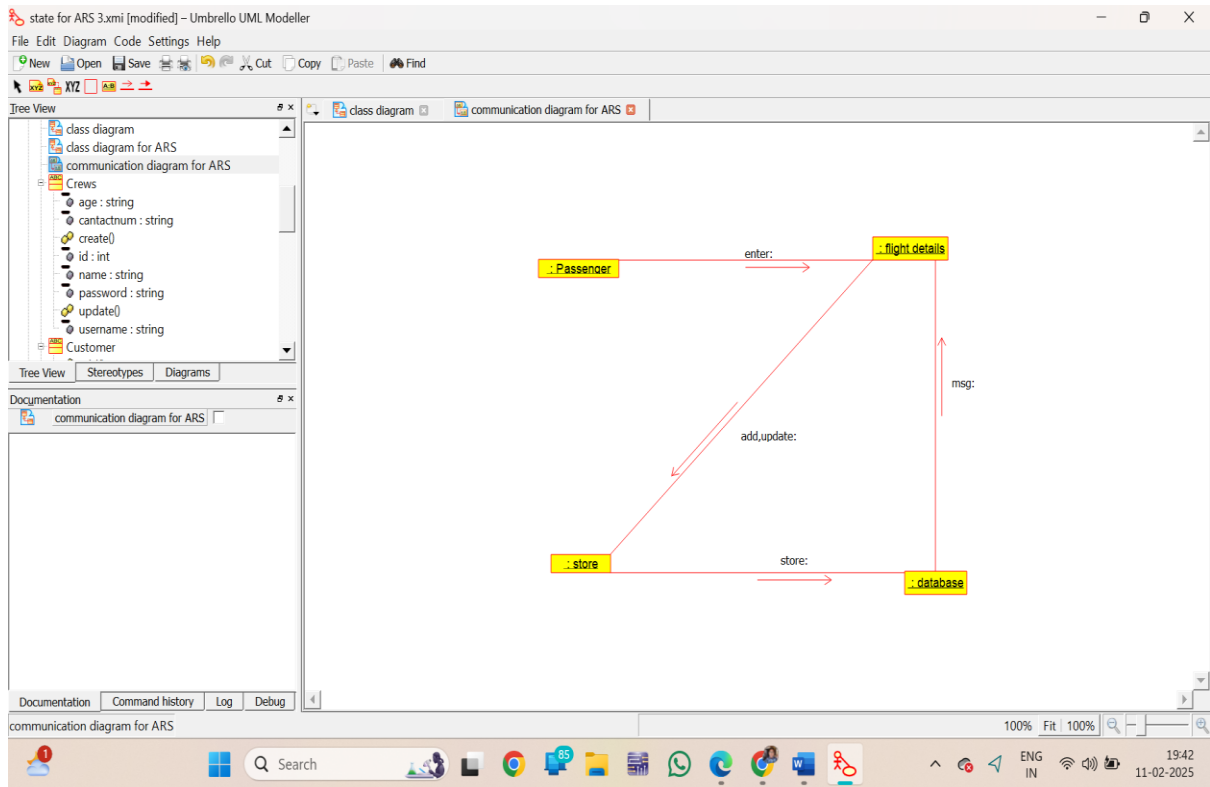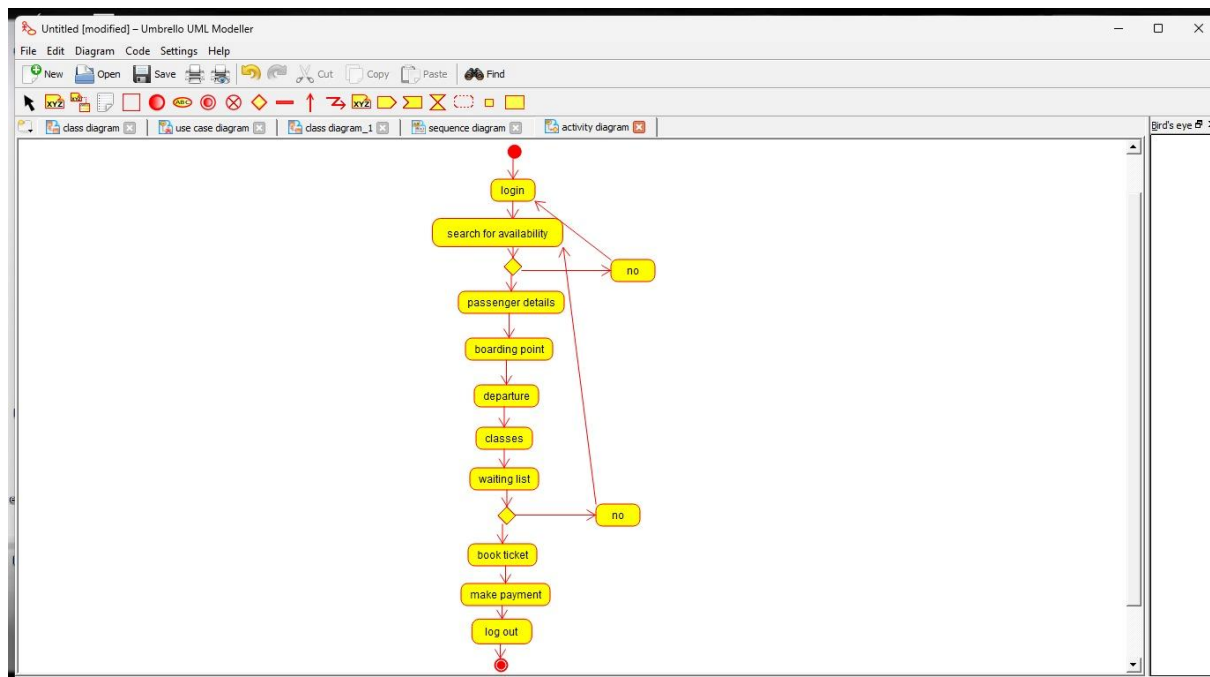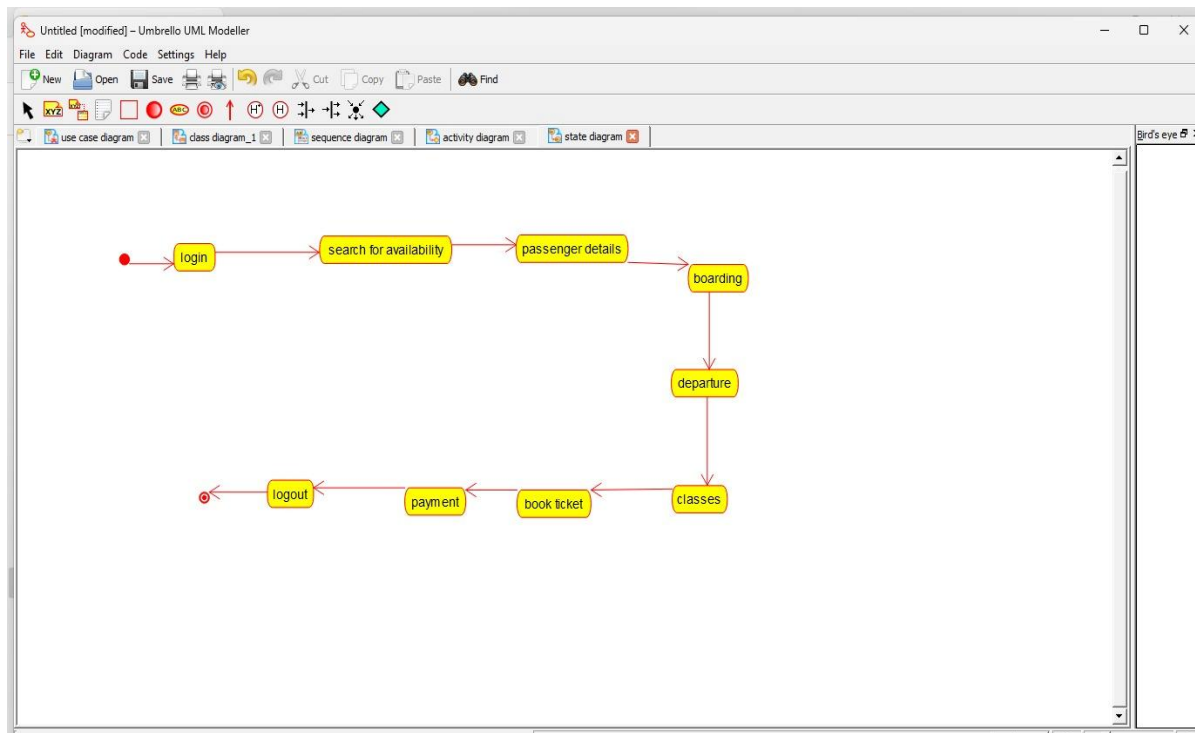
Use Case Diagram:

Class Diagram:

Deployment Diagram:
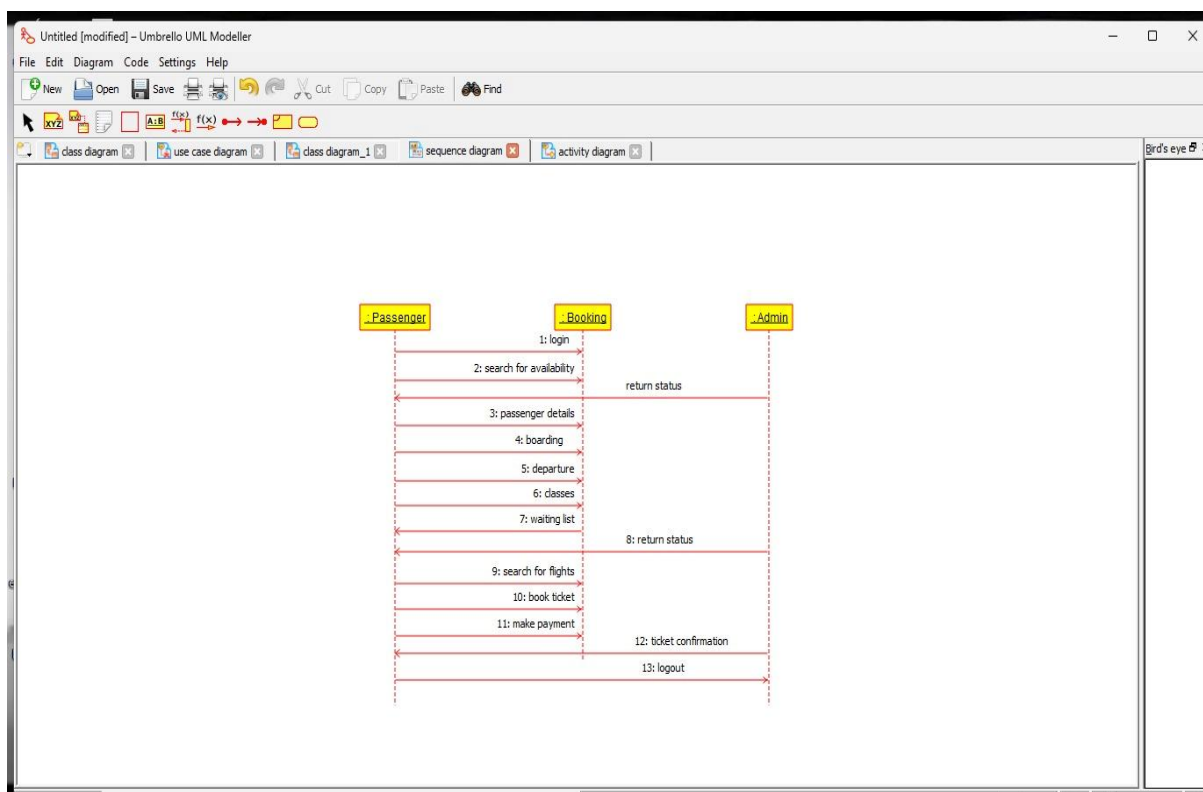
Communication Diagram:
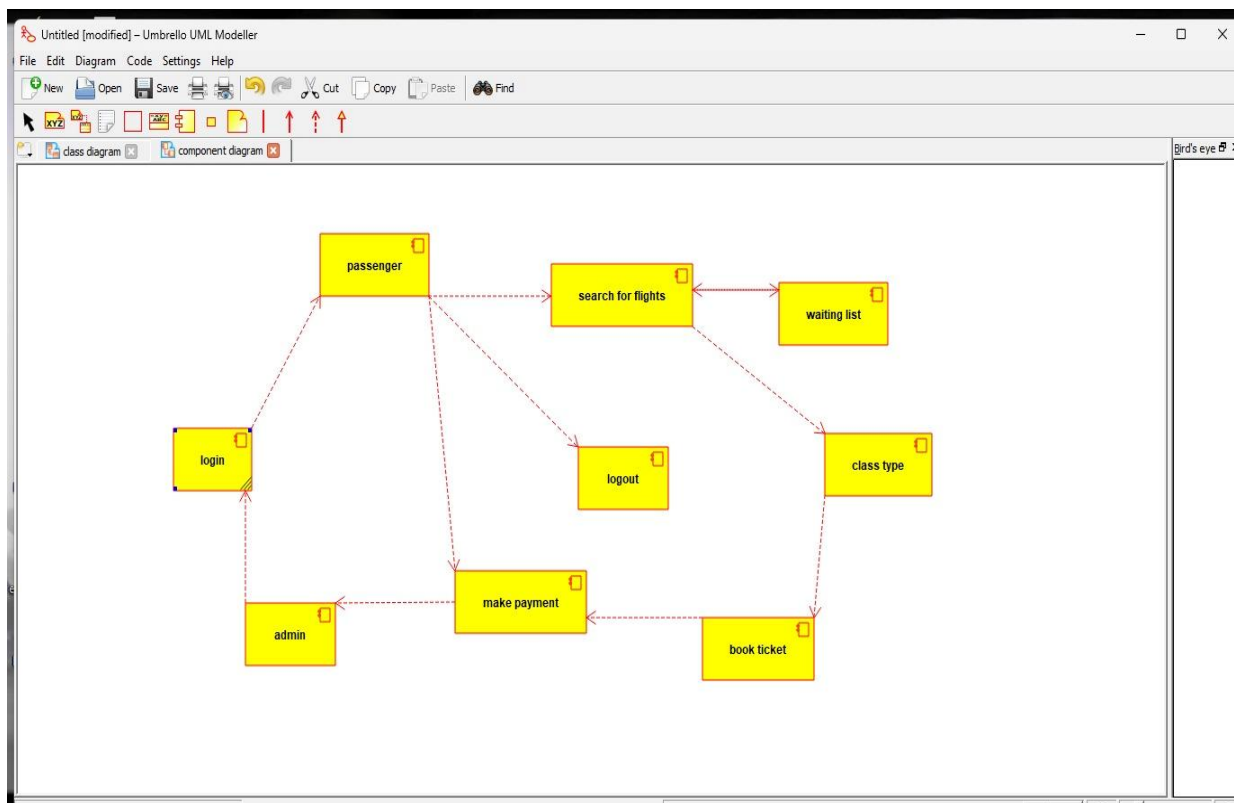

Activity Diagram:

State Diagram:

Sequence Diagram:

Component Diagram:

Result:

A class diagram for an Online Airline Reservation System is successfully designed, showcasing the relationships between users, admins, flights, reservations, and management functionalities.