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 a **Class Diagram** for an **Online Airline Reservation System**, representing the system's structure, including users, functionalities, and data relationships.

PROCEDURE:

☐ **Identify Key Classes:**

- **User**: Represents passengers interacting with the system.

- **Admin**: Manages reservations, flights, and policies.

- **Login**: Handles user authentication.

- **ManageClasses**: Manages seat classes (Economy, Business, First Class).

- **ManageWaitingList**: Handles passengers waiting for a seat.

- **ManageHolds**: Deals with temporary seat reservations.

- **ManageDeadlines**: Enforces reservation deadlines.

- **Logout**: Ends a user session.

☐ **Define Attributes & Methods:**

- **User**: Name, Email, Password, BookTicket(), CancelTicket().

- **Admin**: ManageUsers(), UpdateFlights(), GenerateReports().

- **Login**: ValidateCredentials(), ResetPassword().

- **ManageClasses**: SetPrices(), UpdateSeats().

- **ManageWaitingList**: AddToList(), RemoveFromList().

- **ManageHolds**: PlaceHold(), ReleaseHold().

- **ManageDeadlines**: SetDeadline(), NotifyUser().
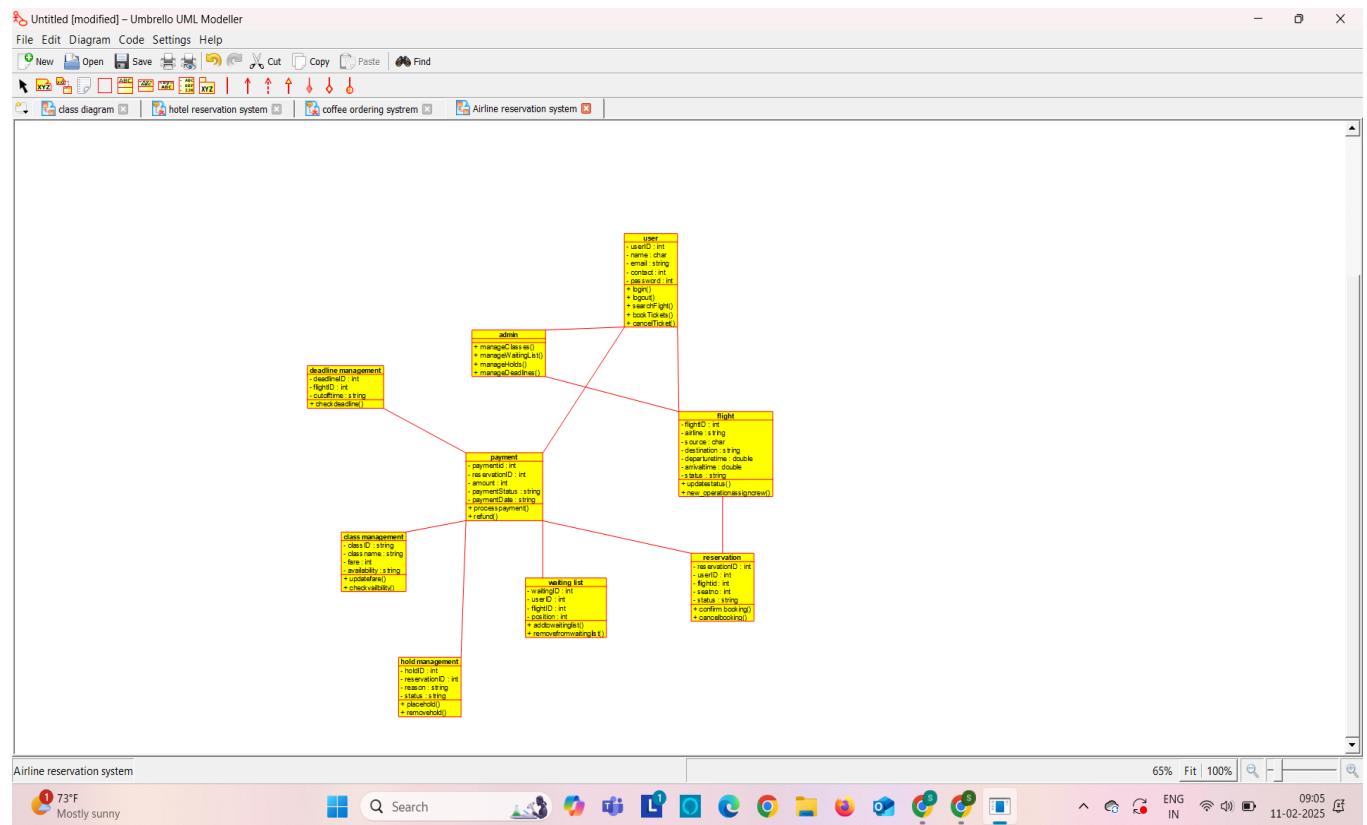
- **Logout**: EndSession().

☐ **Establish Relationships:**

- **User** and **Admin** inherit from a common **Person** class.

- **User** interacts with **Login, Logout, ManageClasses, ManageWaitingList, ManageHolds, and ManageDeadlines**.

- **Admin** manages all these entities.

OUTPUT:

Class diagram

RESULT:

A **Class Diagram** for the **Online Airline Reservation System** was successfully created, representing user roles, reservation management, and system functionalities.