Exercise 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, illustrating the system's structure, including classes, attributes, methods, and relationships.

Procedure:

1. **Identify Key Entities** – Define primary classes such as User, Admin, Flight, Reservation, Payment, and System.
2. **Define Attributes & Methods** – Assign relevant attributes (e.g., username, flightNumber, seatClass, deadline) and methods (e.g., login(), bookTicket(), cancelTicket()).
3. **Establish Relationships** – Define associations such as a User making a Reservation, an Admin managing Flights, and a Flight containing multiple Seats.
4. **Design the Class Diagram** – Represent classes, their attributes, methods, and relationships (e.g., one-to-many relationship between Flight and Reservation).
5. **Include Functional Classes** – Add essential classes for managing tasks like Waitlists, Holds, Deadlines, and Flight Management, along with their respective operations.
6. **Implement Authentication Flow** – Incorporate LOGIN and LOGOUT functionalities within the User and Admin classes.

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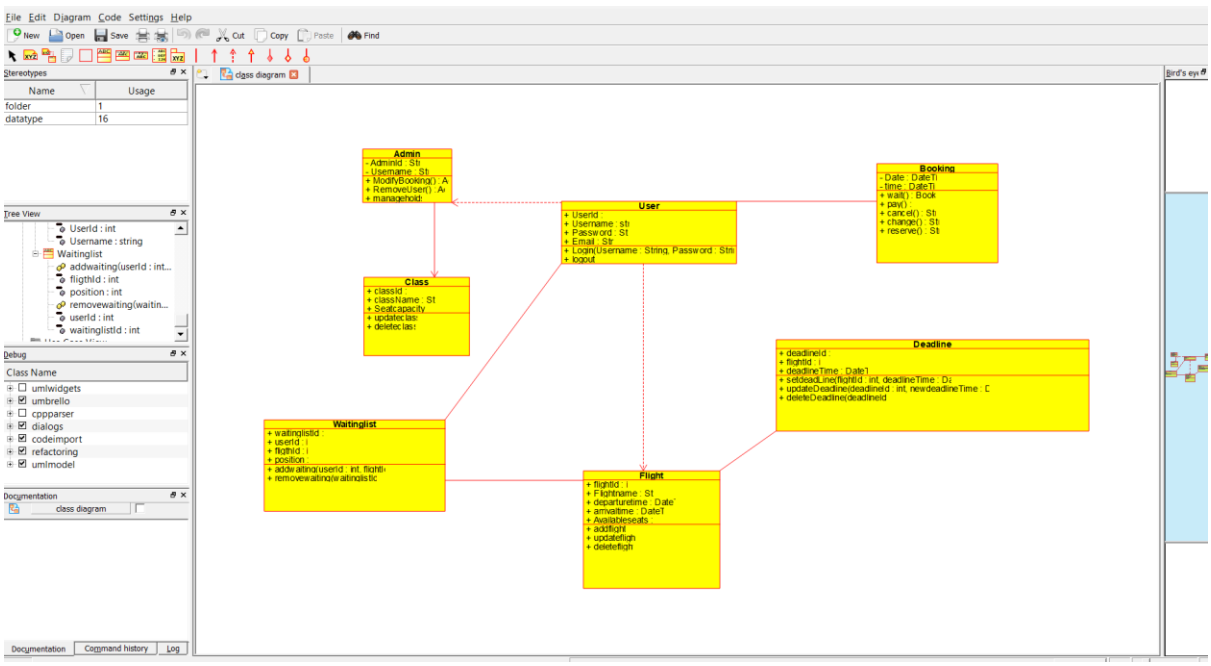

Result

Thus the UML diagram for the Airline Reservation has been implemented successfully.