

# **Flight Reservation System**

Prepared by: **Asal Golshahi**

# Scenario:

The interaction begins when the user (either a passenger or an airline service company) logs into the system. The user enters their username and password; if the credentials are correct, they are redirected to their personal dashboard, otherwise, an error message is displayed.

## **Passenger:**

After logging in, the passenger searches for flights by entering travel details (origin, destination, date, and filters). After reviewing the flight details, they select one and proceed to payment. If the payment is successful, the ticket is issued and a confirmation is sent; if it fails, the reservation is canceled.

The passenger can also request ticket cancellation through the "My Reservations" section. The system displays the refund policies, and after confirmation, the cancellation and refund process is handled by the administrator and the finance department.

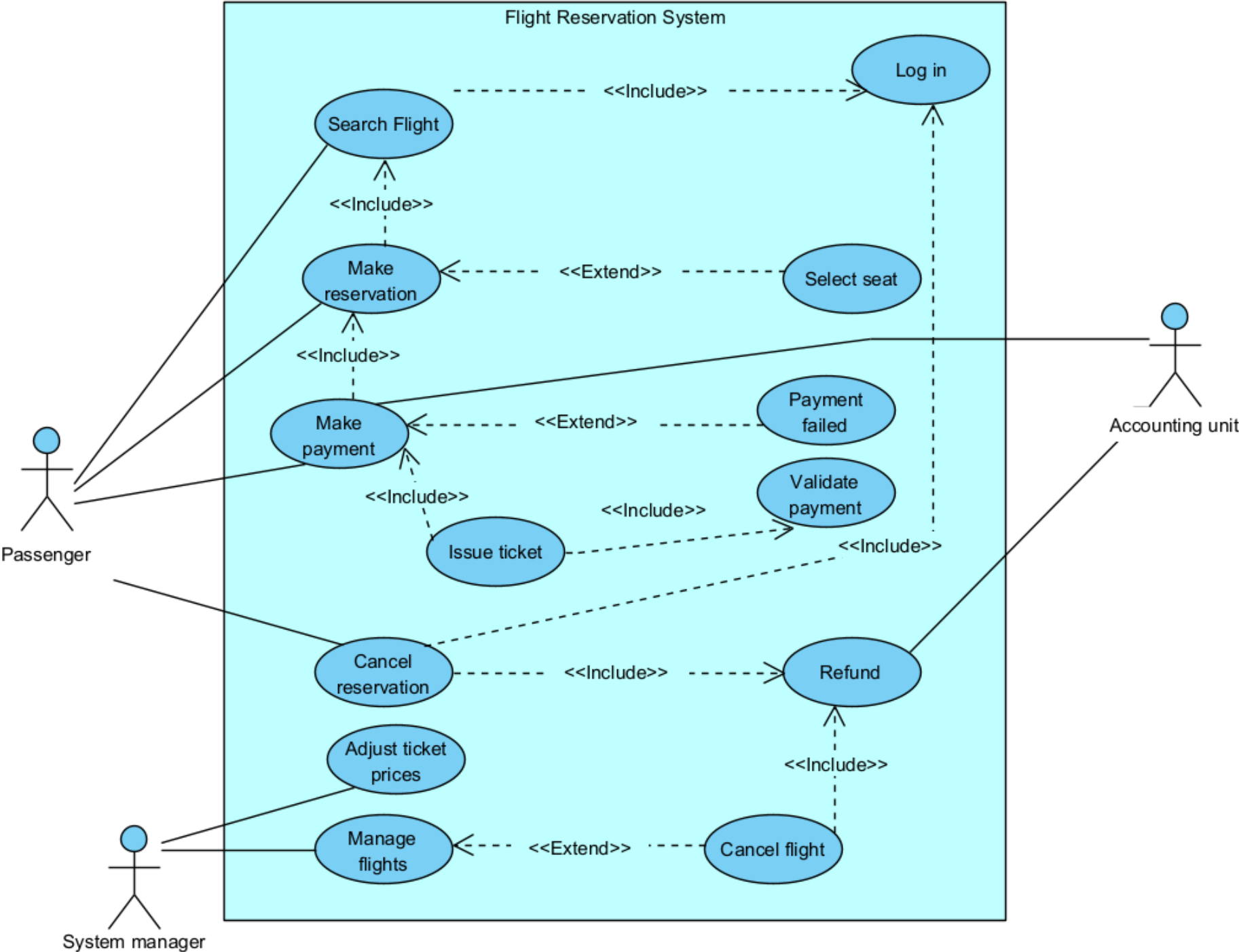
## **Airline Service Company:**

After logging in, the company can register a new flight or update/cancel existing flights. The information includes route, capacity, schedule, and price, which are immediately visible to passengers.

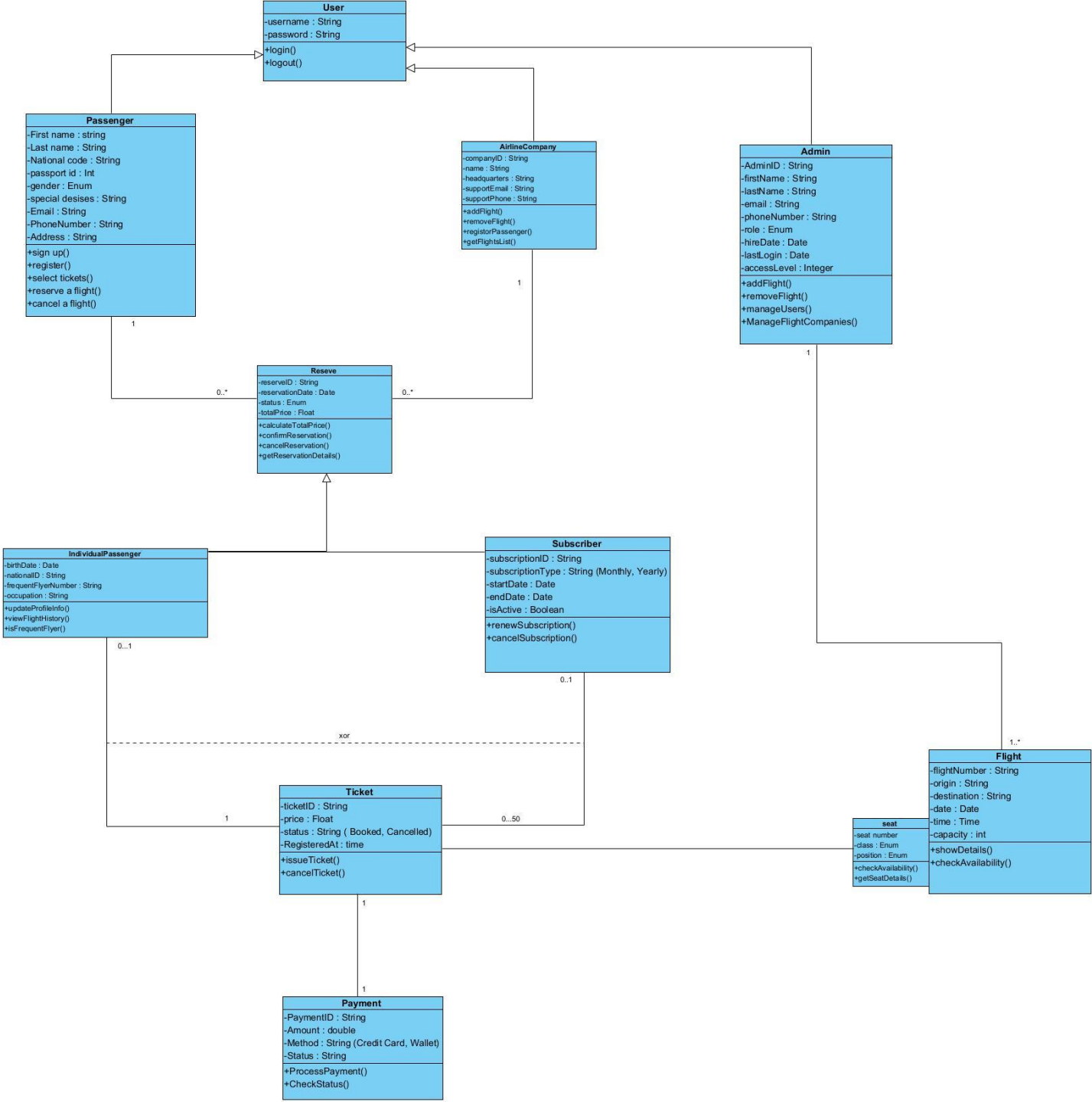
## **System Administrator:**

The administrator has full access: managing users, controlling flights, organizing companies, and intervening in reservations. All administrator changes are applied to the system in real time.

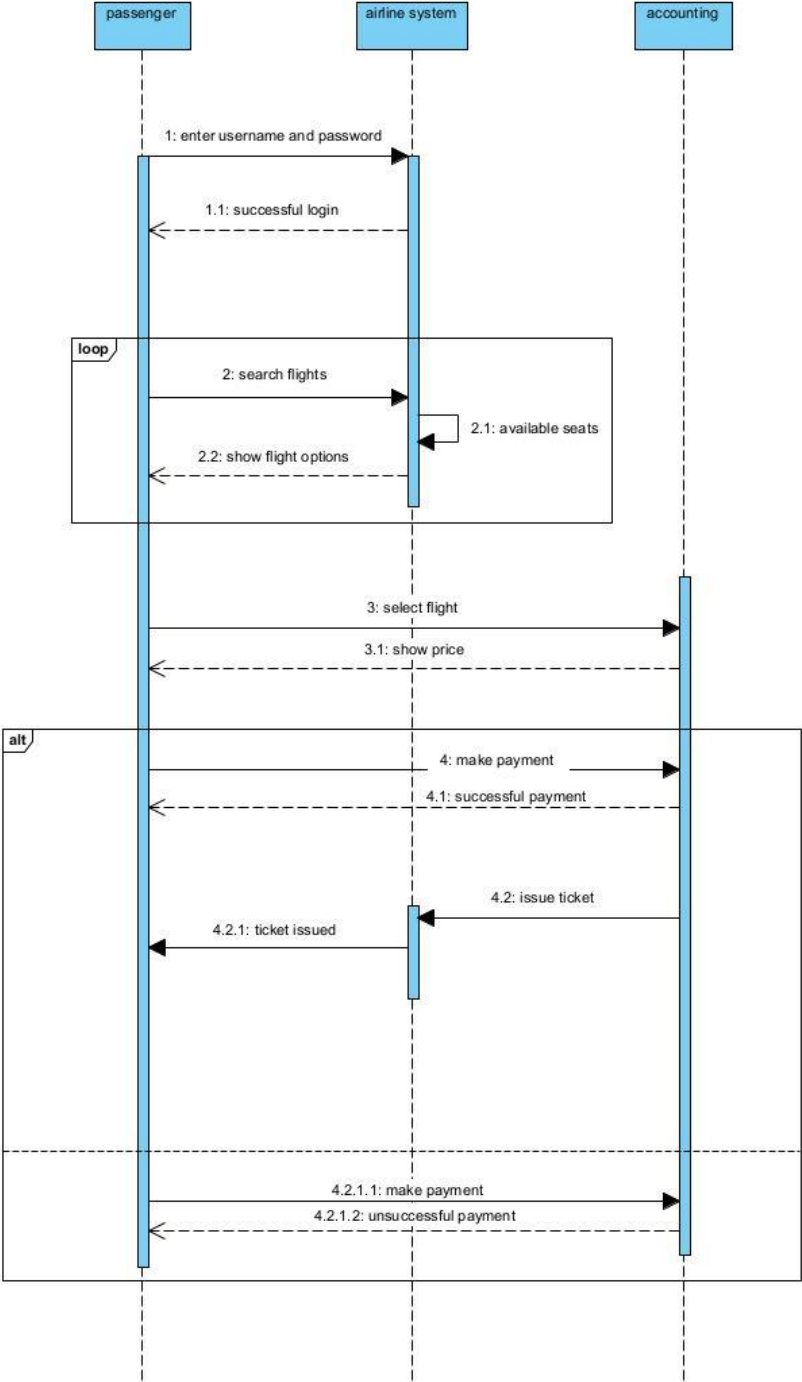
Use Case diagram:



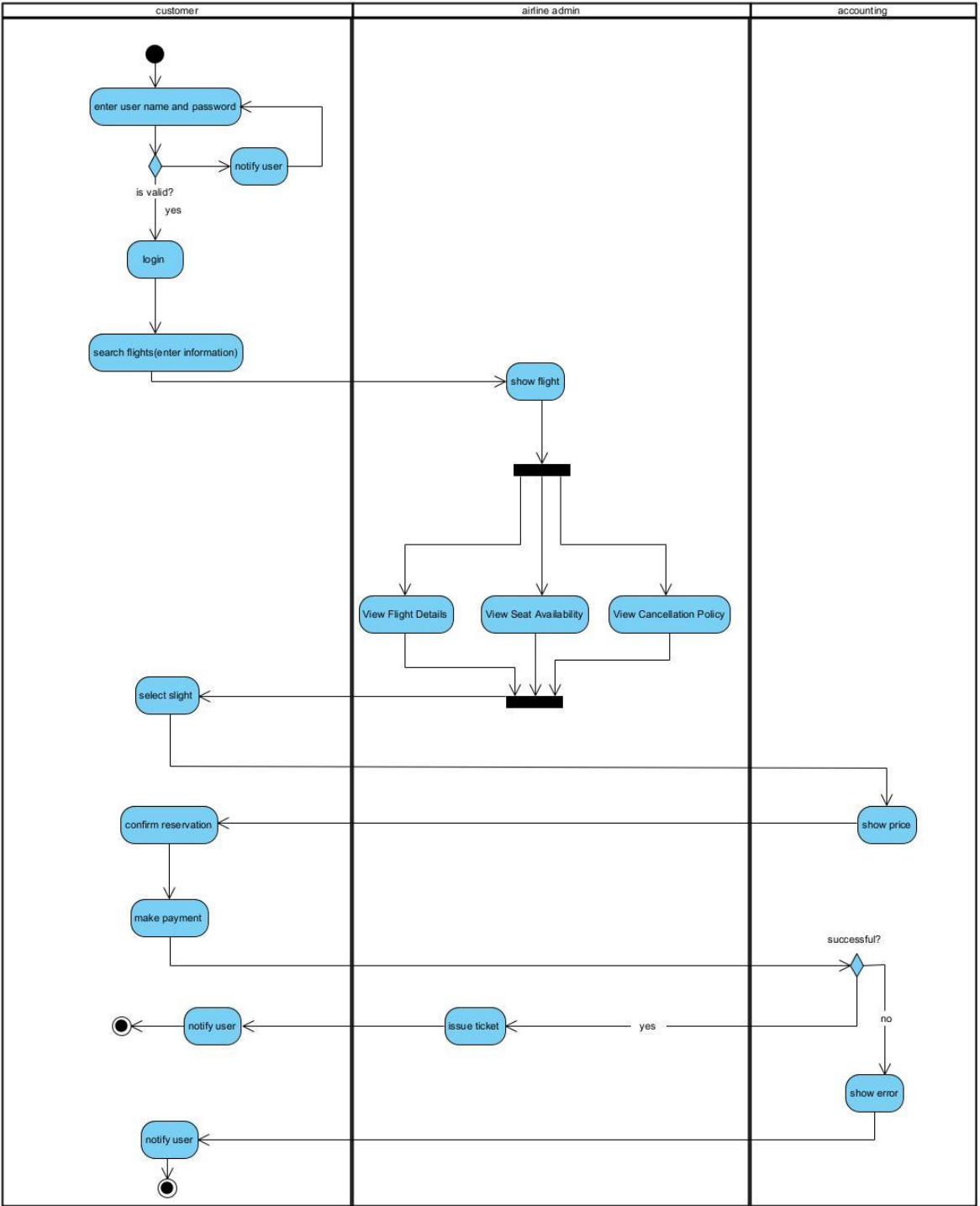
# Class diagram:



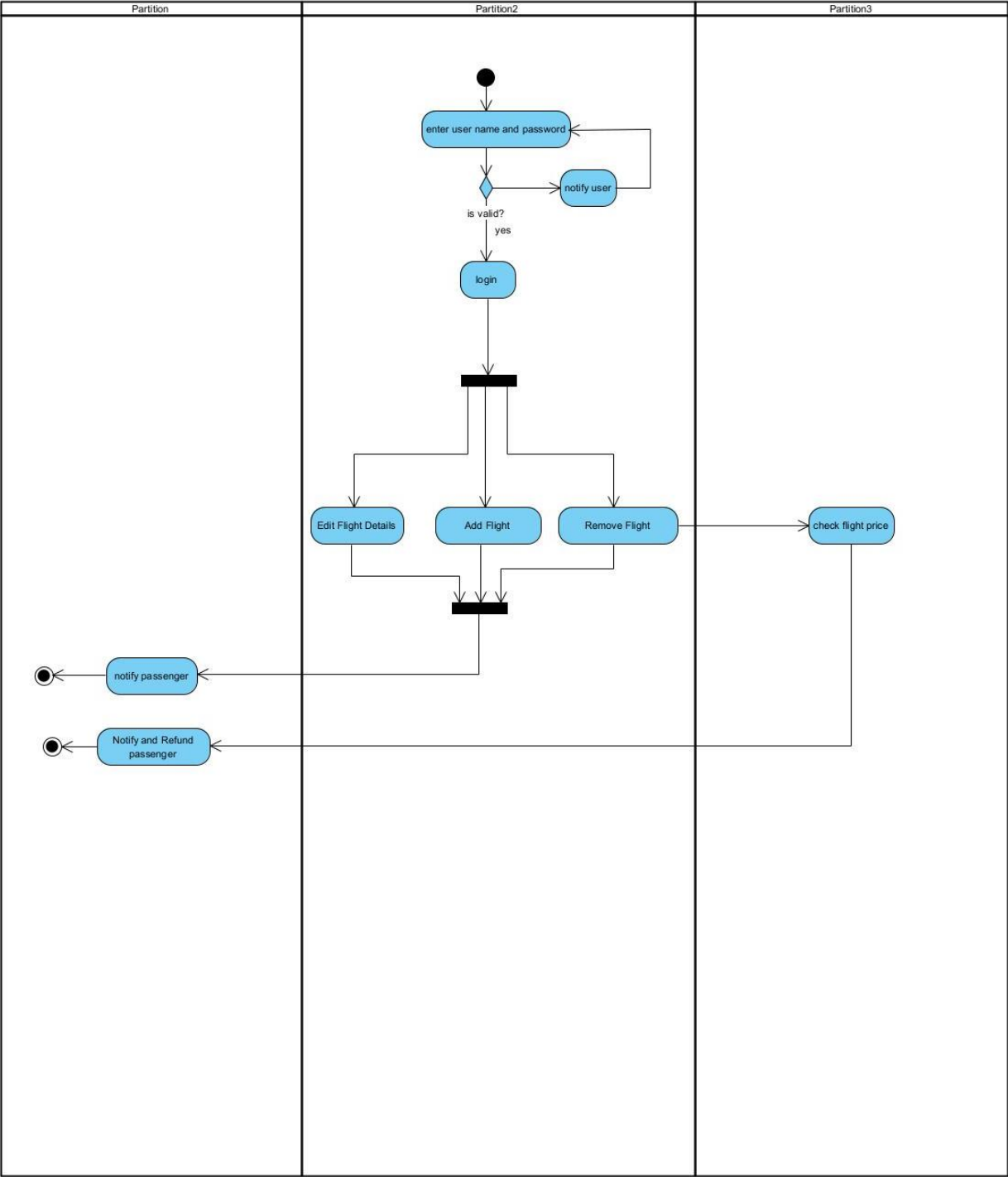
Sequence diagram:



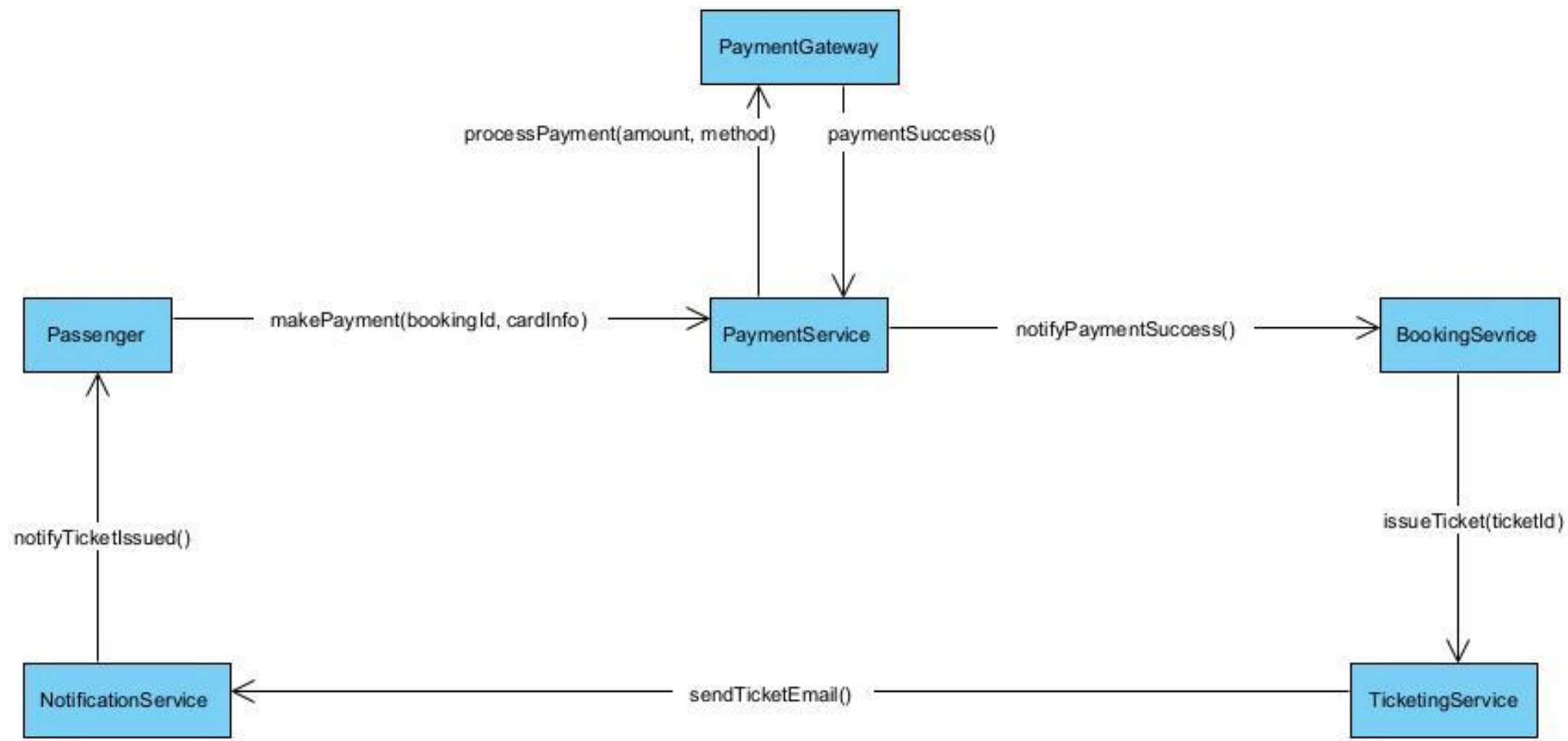
Activity diagram:



# Activity diagram:

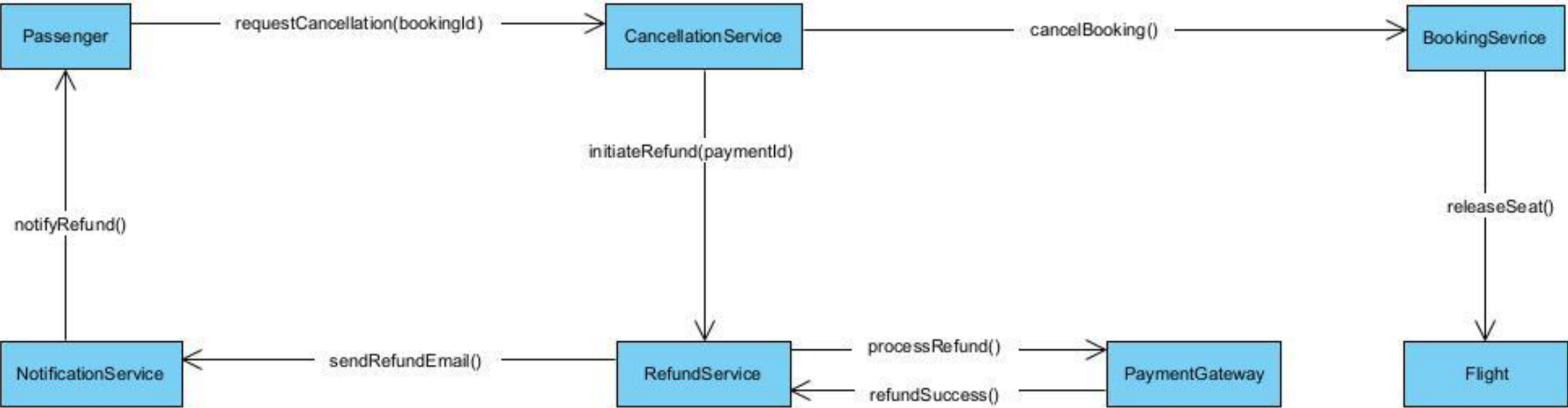


Collaboration  
diagram:

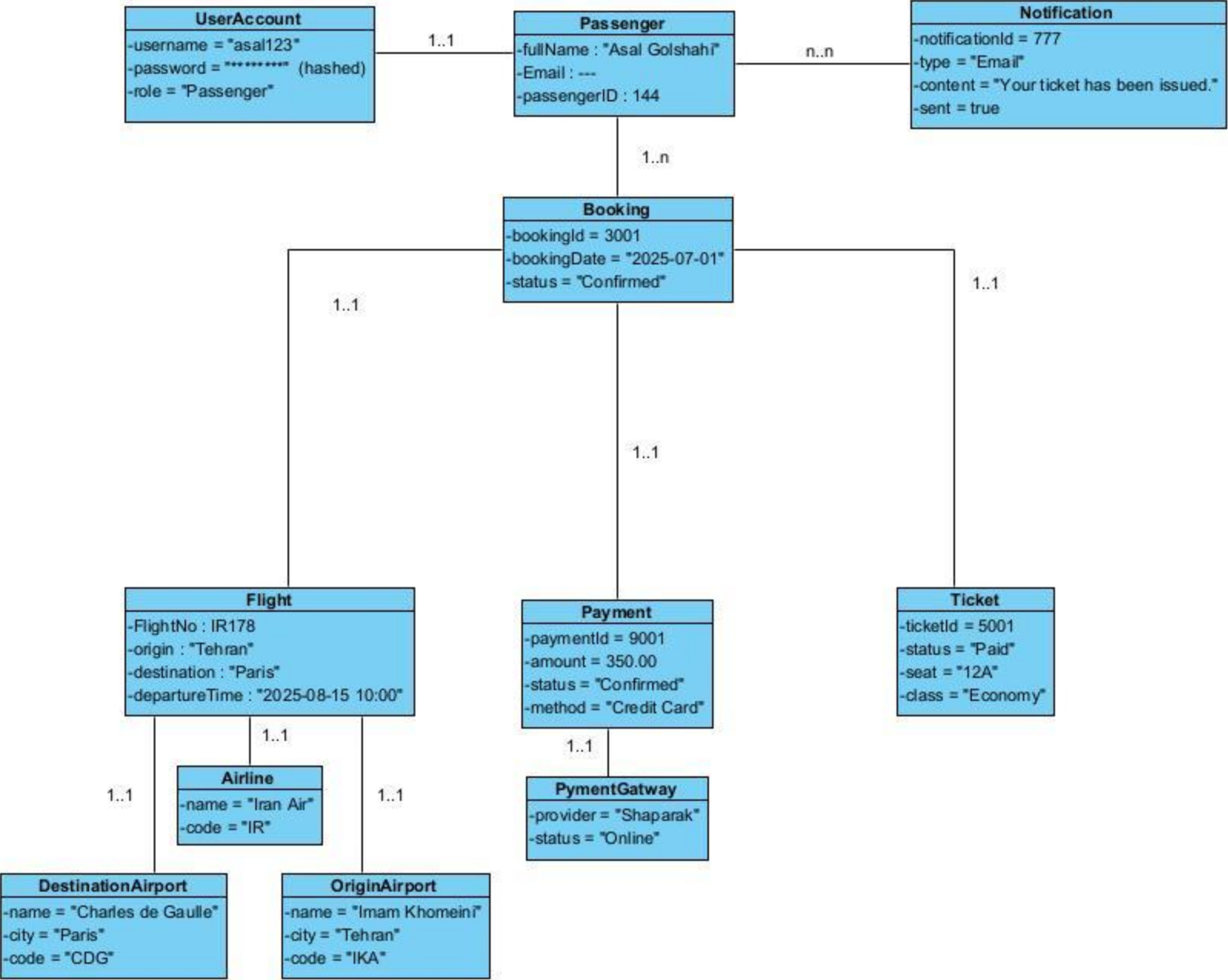




Collaboration  
diagram:



Object  
diagram:



State  
diagram:

