Flight Booking System

PROBLEM STATEMENT

Build a software system which lets user register to system, book a Flight Ticket. User can also cancel or modify the Ticket.

BUSINESS REQUIREMENT

Flight booking service mainly consists of two microservices.

1) User service

2) Flight service

As an application developer, develop microservices with below functionalities:

User service: -

1. User can register with new details.

2. User can login to flight booking portal.

3. User can edit account details.

Flight service: -

1. This service has an option to fetch all booking history.

2. User can book a Flight based on date/time, from place, to place and airlines.

3. User can modify/cancel their own booking

Additional Requirements: -

· Kindly use GraphQL to retrieve information from Db such as booking history, user account details etc.

· Kindly implement Junit test cases for all functionalities. Try to cover all test scenarios using Junit and Mockito.

User Model –

· User ID

· Password

· Email Address

· contactNumber

Booking Model –

· PNR

· FromCity

· ToCity

· DateAndTime

· Airlines

· UserID

REST ENDPOINTS

POST /api/v1.0/user/register New user registration

POST /api/v1.0/user/login User login

POST /api/v1.0/user/edit Edit account details / Update profile

POST /api/v1.0/flight/flightBooking/{pnr} Book ticket

POST /api/v1.0/flight/modifyBooking/{pnr} Modify Flight Booking

DELETE /api/v1.0/flight/cancelBooking/{pnr} Cancel a booked ticket

GET /api/v1.0/flight/booking/history Get All Booked tickets history