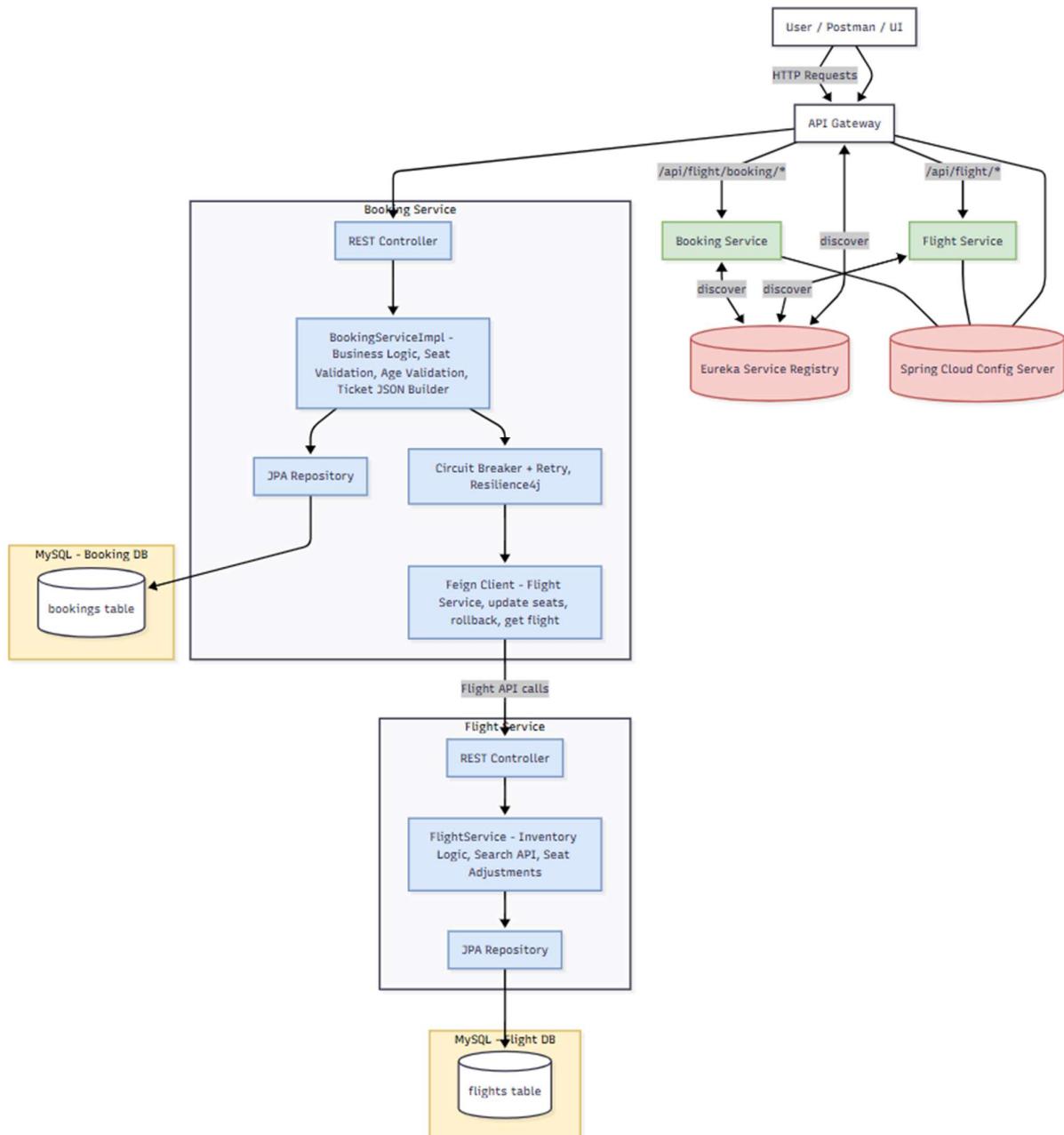


FLIGHT APP MICROSERVICES

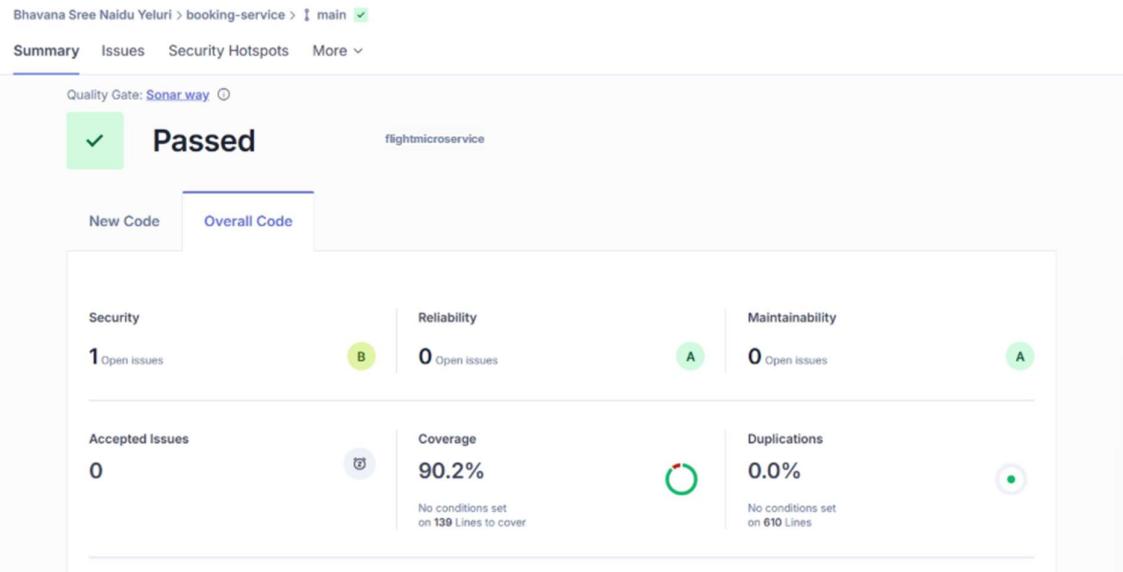
Report by Bhavana

SYSTEM ARCHITECTURE



SonarQube

- 90% coverage

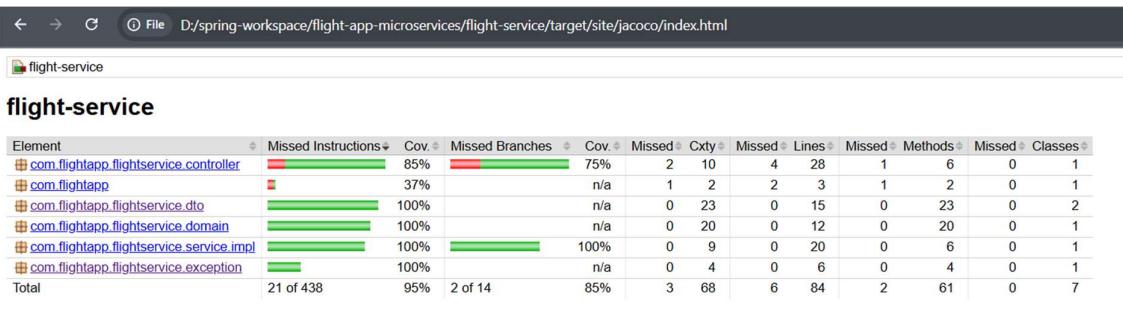


Jacoco Reports

- 92% coverage for booking service
- 95% coverage for flight service

booking-service

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.flighthapp.bookingservice.dto	███████	75%	n/a	10	28	7	18	10	28	0	2	
com.flighthapp.bookingservice.service.impl	██████████	95%	██████	83%	4	25	3	76	0	13	0	1
com.flighthapp	██████	37%	n/a	1	2	2	3	1	2	0	1	
com.flighthapp.bookingservice.domain	██████	100%	n/a	0	24	0	14	0	24	0	1	
com.flighthapp.bookingservice.controller	██████	100%	n/a	0	6	0	20	0	6	0	1	
com.flighthapp.bookingservice.exception	██████	100%	n/a	0	5	0	8	0	5	0	2	
Total	54 of 729	92%	4 of 24	83%	15	90	12	139	11	78	0	8



Postman Outputs

Add inventory

The screenshot shows the Postman interface for a POST request to `http://localhost:8080/FLIGHT-SERVICE/api/flight/airline/inventory/add`. The request body is a JSON object:

```
1 {
2   "airlineName": "Air India",
3   "airlineCode": "AI",
4   "fromPlace": "HYD",
5   "toPlace": "BLR",
6   "departureDateTime": "2025-12-13T05:30",
7   "arrivalDateTime": "2025-12-13T07:00",
8   "price": 3500,
9   "availableSeats": 120
10 }
```

The response status is **201 Created**, with a time of 1.41 s and a size of 122 B. The response body is empty: `[]`.

Search Flight

The screenshot shows the Postman interface for a POST request to `http://localhost:8080/FLIGHT-SERVICE/api/flight/search`. The request body is a JSON object:

```
1 {
2   "from": "HYD",
3   "to": "BLR"
4 }
```

The response status is **200 OK**, with a time of 526 ms and a size of 317 B. The response body is a JSON array containing one flight record:

```
1 [
2   {
3     "id": 1,
4     "airlineName": "Air India",
5     "airlineCode": "AI",
6     "fromPlace": "HYD",
7     "toPlace": "BLR",
8     "departureDateTime": "2025-12-13T05:30",
9     "arrivalDateTime": "2025-12-13T07:00",
10    "price": 3500.0,
11    "availableSeats": 120
12  }
13 ]
```

Book Ticket

The screenshot shows a Postman request to `http://localhost:8080/BOOKING-SERVICE/api/flight/booking/1`. The request method is `POST`. The body contains the following JSON payload:

```
1 {
2   "email": "bhavana@gmail.com",
3   "seats": 2,
4   "passengerDetails": "Bhavana:F:24;Siddharth:M:25",
5   "amount": 7000.0,
6   "journeyDate": "2025-12-13"
7 }
```

The response status is `201 Created`, and the response body is `1 PNR-1084A883`.

Get ticket

The screenshot shows a Postman request to `http://localhost:8080/BOOKING-SERVICE/api/flight/booking/ticket/PNR-1084A883`. The request method is `GET`. The query parameters table is empty.

The response status is `200 OK`, and the response body is a JSON object containing the ticket details:

```
1 {
2   "pnr": "PNR-1084A883",
3   "flightId": 1,
4   "journeyDate": "2025-12-13",
5   "passengers": "Bhavana:F:24;Siddharth:M:25"
6 }
```

Get history

The screenshot shows the Postman interface with the following details:

- Request URL:** `http://localhost:8080/BOOKING-SERVICE/api/flight/booking/history/bhavana@gmail.com`
- Method:** GET
- Headers:** (6)
- Body:** (Empty JSON object)
- Response Status:** 200 OK
- Response Body:**

```
1 [  
2 {  
3   "id": 1,  
4   "pnr": "PNR-1084A883",  
5   "email": "bhavana@gmail.com",  
6   "passengerDetails": "Bhavana:F:24;Siddhaith:M:25",  
7   "seats": 2,  
8   "flightId": 1,  
9   "bookedAt": "2025-12-01T23:13:53.99091",  
10  "status": "BOOKED",  
11  "amount": 7000.0,  
12  "ticketJson": "{\"pnr\":\"PNR-1084A883\",\"flightId\":1,\"journeyDate\":\"2025-12-13\",  
13  \"passengers\":\"Bhavana:F:24;Siddhaith:M:25\"}",  
14  "journeyDate": "2025-12-13"}]
```

Cancel ticket

The screenshot shows the Postman interface with the following details:

- Request URL:** `http://localhost:8080/BOOKING-SERVICE/api/flight/booking/cancel/1084A883`
- Method:** DELETE
- Headers:** (6)
- Body:** (Empty JSON object)
- Response Status:** 204 No Content
- Response Body:** 1

Eureka Server

localhost:8761

System Status

Environment	test	Current time	2025-12-01T20:52:43 +0530
Data center	default	Uptime	00:05
		Lease expiration enabled	false
		Renews threshold	6
		Renews (last min)	4

EMERGENCY! EUREKA MAY BE INCORRECTLY CLAIMING INSTANCES ARE UP WHEN THEY'RE NOT. RENEWALS ARE LESSER THAN THRESHOLD AND HENCE THE INSTANCES ARE NOT BEING EXPIRED JUST TO BE SAFE.

DS Replicas

localhost			
Instances currently registered with Eureka			
Application	AMIs	Availability Zones	Status
API-GATEWAY	n/a (1)	(1)	UP (1) - LAPTOP-5RHOFR9G.api-gateway:8080
BOOKING-SERVICE	n/a (1)	(1)	UP (1) - LAPTOP-5RHOFR9G.booking-service:9002
FLIGHT-SERVICE	n/a (1)	(1)	UP (1) - LAPTOP-5RHOFR9G.flight-service:9001

General Info

Jmeter

Summary Report

Name:	Summary Report									
Comments:										
Write results to file / Read from file										
Filename	<input type="button" value="Browse..."/> Log/Display Only: <input type="checkbox"/> Errors <input type="checkbox"/> Successes <input type="button" value="Configure"/>									
Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
HTTP Request	20	9	8	12	0.96	0.00%	20.7/sec	9.95	3.23	492.0
TOTAL	20	9	8	12	0.96	0.00%	20.7/sec	9.95	3.23	492.0

Summary Report

Name:	Summary Report									
Comments:										
Write results to file / Read from file										
Filename	<input type="button" value="Browse..."/> Log/Display Only: <input type="checkbox"/> Errors <input type="checkbox"/> Successes <input type="button" value="Configure"/>									
Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
HTTP Request	50	26	8	123	25.06	0.00%	42.2/sec	20.27	6.59	492.0
TOTAL	50	26	8	123	25.06	0.00%	42.2/sec	20.27	6.59	492.0

Summary Report

Name:	Summary Report									
Comments:										
Write results to file / Read from file										
Filename	<input type="button" value="Browse..."/> Log/Display Only: <input type="checkbox"/> Errors <input type="checkbox"/> Successes <input type="button" value="Configure"/>									
Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
HTTP Request	100	66	10	178	42.02	0.00%	92.0/sec	44.20	14.37	492.0
TOTAL	100	66	10	178	42.02	0.00%	92.0/sec	44.20	14.37	492.0

The screenshot shows the JMeter interface with a 'Test Plan' tree on the left containing a 'Thread Group' and an 'HTTP Request' sampler named 'View Results Tree'. The 'View Results Tree' listener is selected. The main panel displays the 'View Results Tree' configuration with 'Name: View Results Tree' and 'Comments: Write results to file / Read from file'. Below this is a search bar and a list of 16 'HTTP Request' entries, all of which are marked as 'Sampler result' and have a red error icon next to them.

Swagger

The screenshot shows the Swagger UI interface for two API controllers:

- booking-controller:**
 - POST** /api/flight/booking/{flightId}
 - GET** /api/flight/booking/ticket/{pnr}
 - GET** /api/flight/booking/history/{email}
 - GET** /api/flight/booking/download/{pnr}
 - DELETE** /api/flight/booking/cancel/{pnr}
- Schemas:**
 - BookingRequest >
 - Booking >
 - TicketResponse >

- flight-controller:**
 - PUT** /api/flight/update-seats/{flightId}/{count}
 - PUT** /api/flight/rollback-seats/{flightId}/{count}
 - POST** /api/flight/search
 - POST** /api/flight/airline/inventory/add
 - GET** /api/flight/get/{id}
- Schemas:**
 - FlightSearchRequest >
 - Flight >
 - FlightInventoryRequest >

Newman Report

Newman Report

Collection flight-microservices
Time Tue Dec 02 2025 01:08:55 GMT+0530 (India Standard Time)
Exported with Newman v6.2.1

	Total	Failed
Iterations	1	0
Requests	6	0
Prerequest Scripts	0	0
Test Scripts	0	0
Assertions	0	0
Total run duration	659ms	
Total data received	953B (approx)	
Average response time	34ms	
Total Failures	0	

Message Broker

```
[ticket-booked-0]
-12-01T15:13:43.402+05:30  INFO 17908 --- [email-service] [ntainer#0-0-C
c.example.demo.listener.EmailListener    : ? Email-service received: Tic
booked for passengerId=53, flightId=1, pnr=0c92d8ab
```