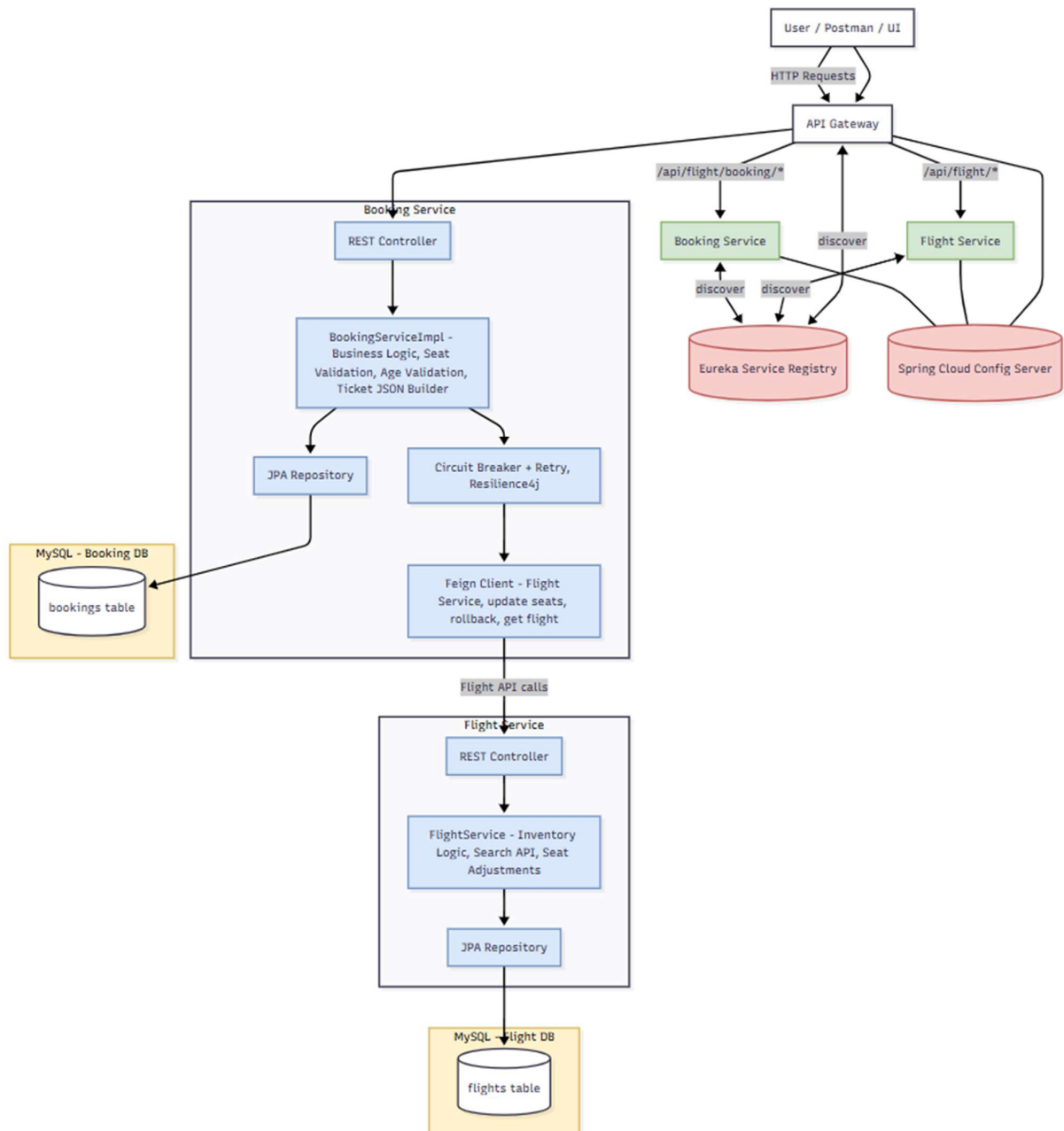


FLIGHT APP MICROSERVICES

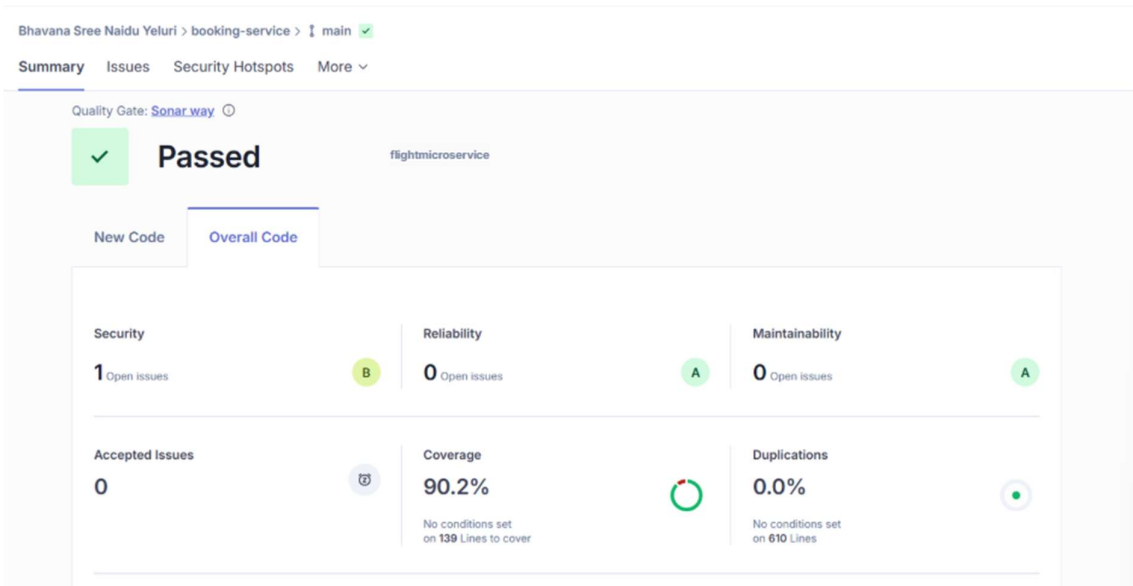
Report by Bhavana

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.flightapp.booking.service.dto		75%		83%	10	28	7	18	10	28	0	2
com.flightapp.booking.service.service.impl		95%		83%	4	25	3	76	0	13	0	1
com.flightapp		37%		n/a	1	2	2	3	1	2	0	1
com.flightapp.booking.service.domain		100%		n/a	0	24	0	14	0	24	0	1
com.flightapp.booking.service.controller		100%		n/a	0	6	0	20	0	6	0	1
com.flightapp.booking.service.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

← → ↺ File D:/spring-workspace/flight-app-microservices/flight-service/target/site/jacoco/index.html

flight-service

flight-service

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.flightapp.flight.service.controller		85%		75%	2	10	4	28	1	6	0	1
com.flightapp		37%		n/a	1	2	2	3	1	2	0	1
com.flightapp.flight.service.dto		100%		n/a	0	23	0	15	0	23	0	2
com.flightapp.flight.service.domain		100%		n/a	0	20	0	12	0	20	0	1
com.flightapp.flight.service.service.impl		100%		100%	0	9	0	20	0	6	0	1
com.flightapp.flight.service.exception		100%		n/a	0	4	0	6	0	4	0	1
Total	21 of 438	95%	2 of 14	85%	3	68	6	84	2	61	0	7

Postman Outputs

Add inventory

flight-microservices / **add inventory** Save Share

POST http://localhost:8080/FLIGHT-SERVICE/api/flight/airline/inventory/add Send

Docs Params Authorization Headers (8) **Body** Scripts Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** Schema Beautify

```
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 }
```

Body Cookies Headers (3) Test Results 201 Created 1.41 s 122 B Save Response

{} JSON Preview Visualize

```
1 [
```

Runner Start Proxy Cookies Vault Trash

Search Flight

flight-microservices / **search flight** Save Share

POST http://localhost:8080/FLIGHT-SERVICE/api/flight/search Send

Docs Params Authorization Headers (8) **Body** Scripts Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** Schema Beautify

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

Body Cookies Headers (3) Test Results 200 OK 526 ms 317 B Save Response

{} JSON Preview Visualize

```
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

flight-microservices / book ticket

Save Share

POST

http://localhost:8080/BOOKING-SERVICE/api/flight/booking/1

Send

Docs Params Authorization Headers (8) Body Scripts Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

Schema Beautify

```
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 }
8
```

Body Cookies Headers (3) Test Results

201 Created • 2.83 s • 133 B

Save Response

Raw Preview Visualize

1 PNR-1084A883

Get ticket

flight-microservices / get ticket

Save Share

GET

http://localhost:8080/BOOKING-SERVICE/api/flight/booking/ticket/PNR-1084A883

Send

Docs Params Authorization Headers (6) Body Scripts Settings

Query Params

Cookies

Key	Value	Description	Bulk Edit
Key	Value	Description	

Body Cookies Headers (3) Test Results

200 OK • 32 ms • 222 B

Save Response

JSON Preview Visualize

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

Runner Start Prev Cookies Vault Trash

Get history

flight-microservices / get history

SaveShare

GET

http://localhost:8080/BOOKING-SERVICE/api/flight/booking/history/bhavana@gmail.com

Send

DocsParamsAuthorizationHeaders (6)BodyScriptsSettings

Cookies

Query Params

Key	Value	Description	Bulk Edit
Key	Value	Description	

BodyCookiesHeaders (4)Test Results

200 OK75 ms526 BSave Response

JSONPreviewVisualize

```
1 [
2   {
3     "id": 1,
4     "pnr": "PNR-1084A883",
5     "email": "bhavana@gmail.com",
6     "passengerDetails": "Bhavana:F:24;Siddharth: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": "{\n  \"pnr\": \"PNR-1084A883\",\n  \"flightId\": 1,\n  \"journeyDate\": \"2025-12-13\",\n  \"passengers\": {\n    \"Bhavana:F:24;Siddharth:M:25\"\n  },\n  \"journeyDate\": \"2025-12-13\"\n}",
13  }
14 ]
```

RunnerStart ProxyCookiesVaultTrash

Cancel ticket

flight-microservices / cancel ticket

SaveShare

DELETE

http://localhost:8080/BOOKING-SERVICE/api/flight/booking/cancel/PNR-1084A883

Send

DocsParamsAuthorizationHeaders (6)BodyScriptsSettings

Cookies

Query Params

Key	Value	Description	Bulk Edit
Key	Value	Description	

BodyCookiesHeaders (1)Test Results

204 No Content112 ms64 BSave Response

RawPreviewVisualize

```
1
```

RunnerStart ProxyCookiesVaultTrash

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

Browse...

Log/Display Only: ☐ Errors ☐ Successes

Configure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	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

Browse...

Log/Display Only: ☐ Errors ☐ Successes

Configure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	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

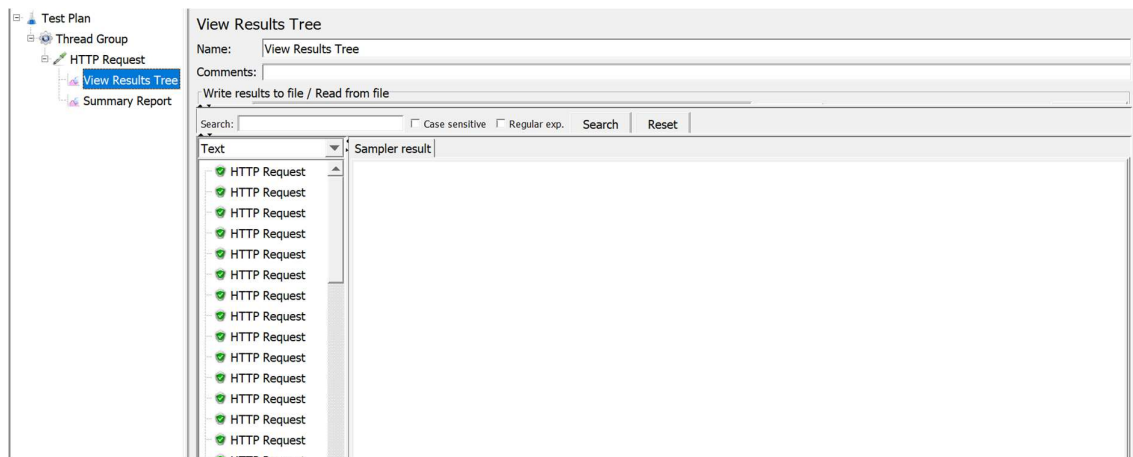
Filename

Browse...

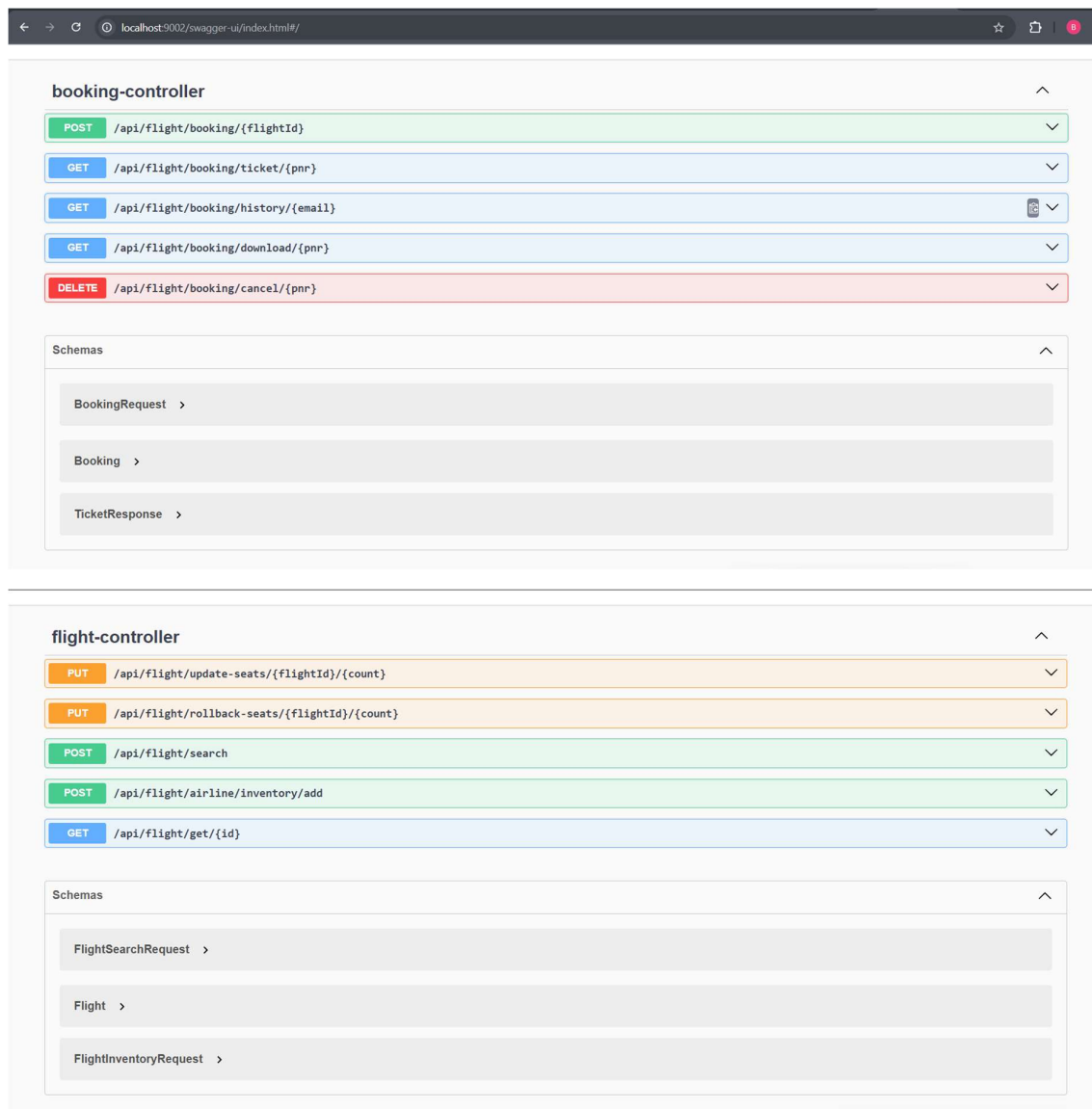
Log/Display Only: ☐ Errors ☐ Successes

Configure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	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



Swagger



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	
Prerequisite 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
```