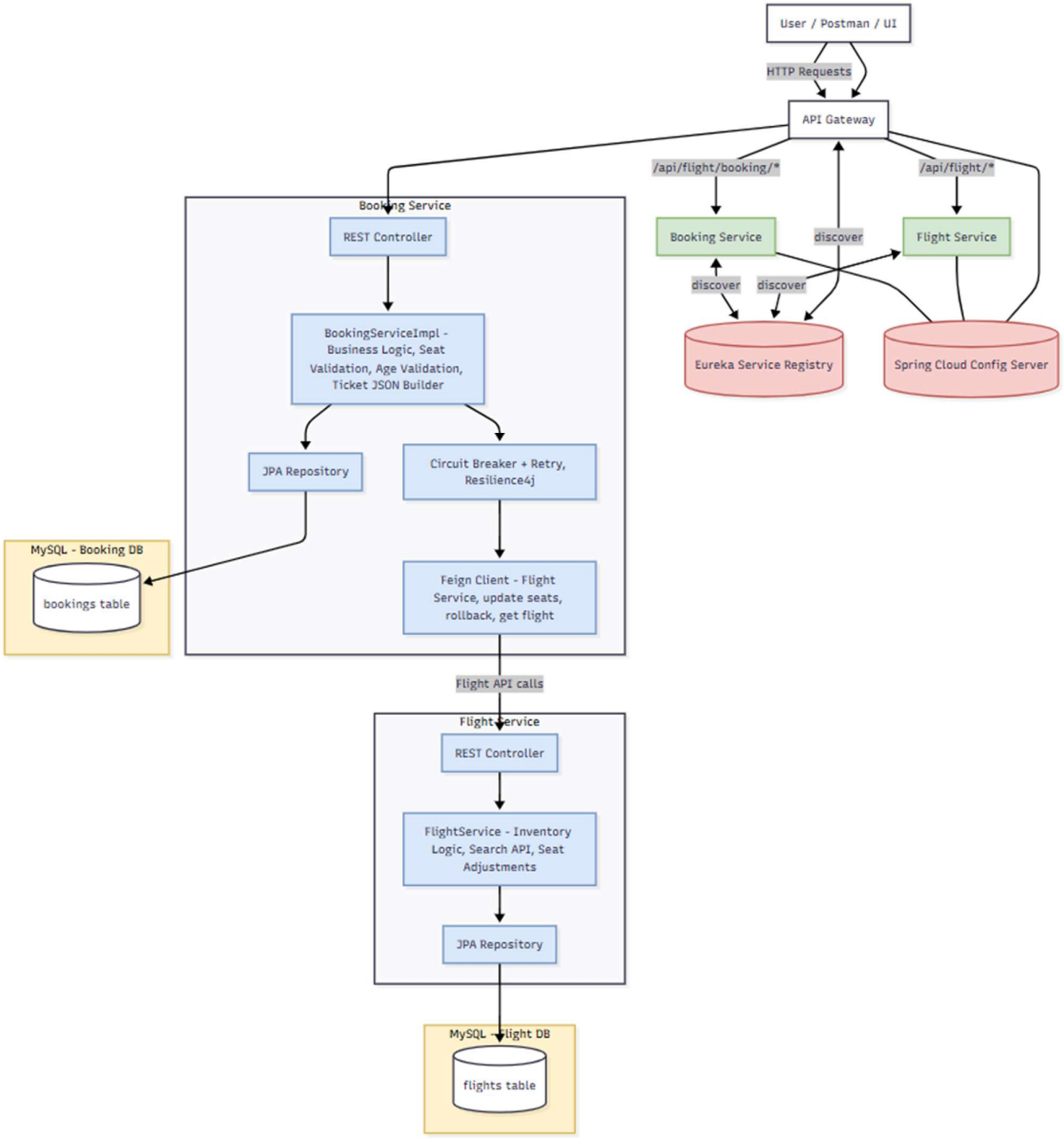
FLIGHT APP MICROSERVICES

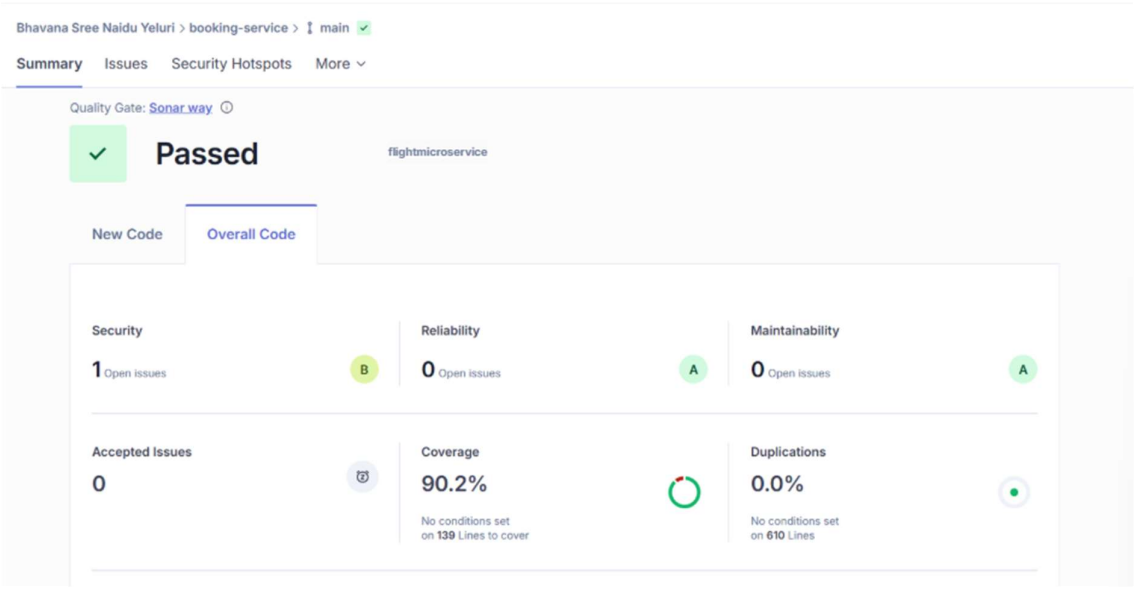
Report by Bhavana

SYSTEM ARCHITECTURE



SonarQube

- **90%** coverage

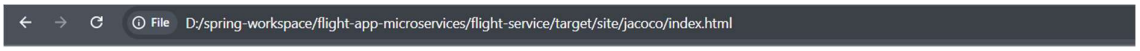


Jacoco Reports

- **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.bookingservice.dto		75%		n/a	10	28	7	18	10	28	0	2
com.flightapp.bookingservice.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.bookingservice.domain		100%		n/a	0	24	0	14	0	24	0	1
com.flightapp.bookingservice.controller		100%		n/a	0	6	0	20	0	6	0	1
com.flightapp.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



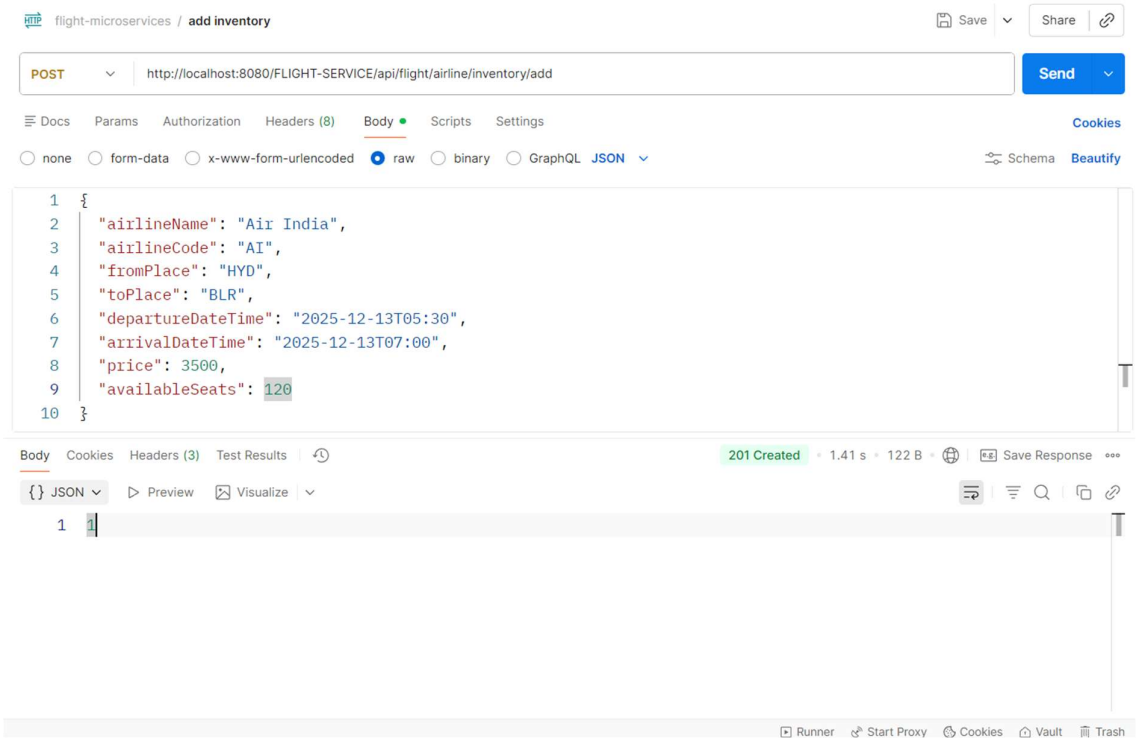
flight-service

flight-service

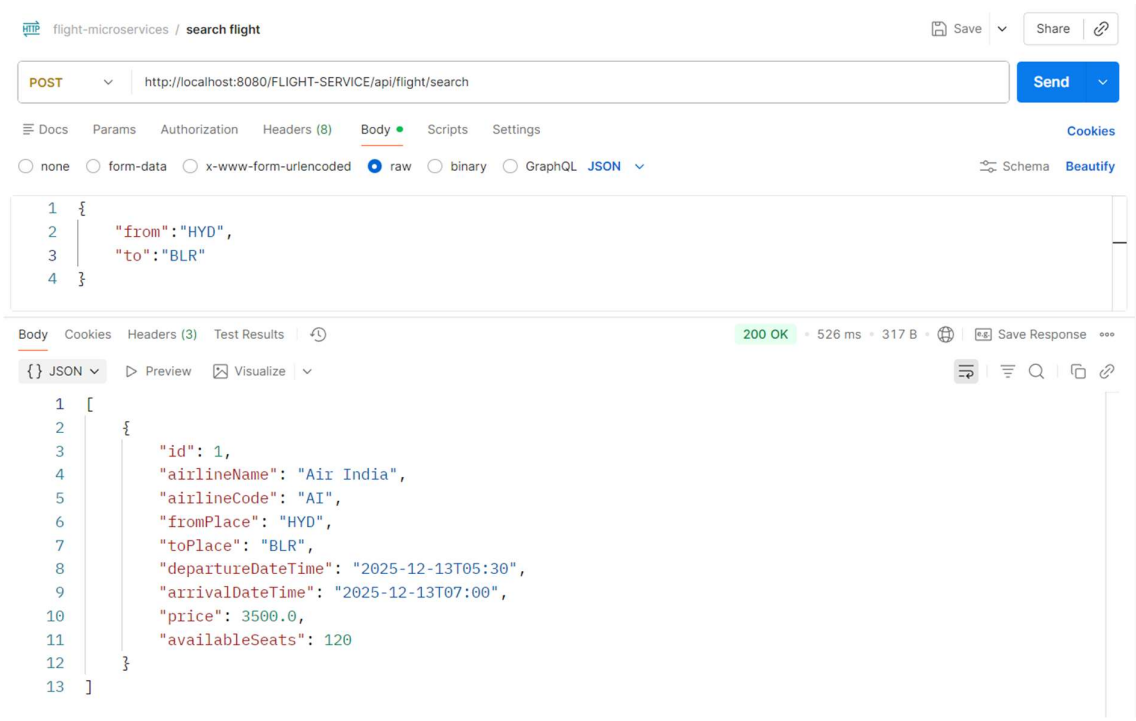
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.flightapp.flightservice.controller		85%		75%	2	10	4	28	1	6	0	1
com.flightapp		37%		n/a	1	2	2	3	1	2	0	1
com.flightapp.flightservice.dto		100%		n/a	0	23	0	15	0	23	0	2
com.flightapp.flightservice.domain		100%		n/a	0	20	0	12	0	20	0	1
com.flightapp.flightservice.service.impl		100%		100%	0	9	0	20	0	6	0	1
com.flightapp.flightservice.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

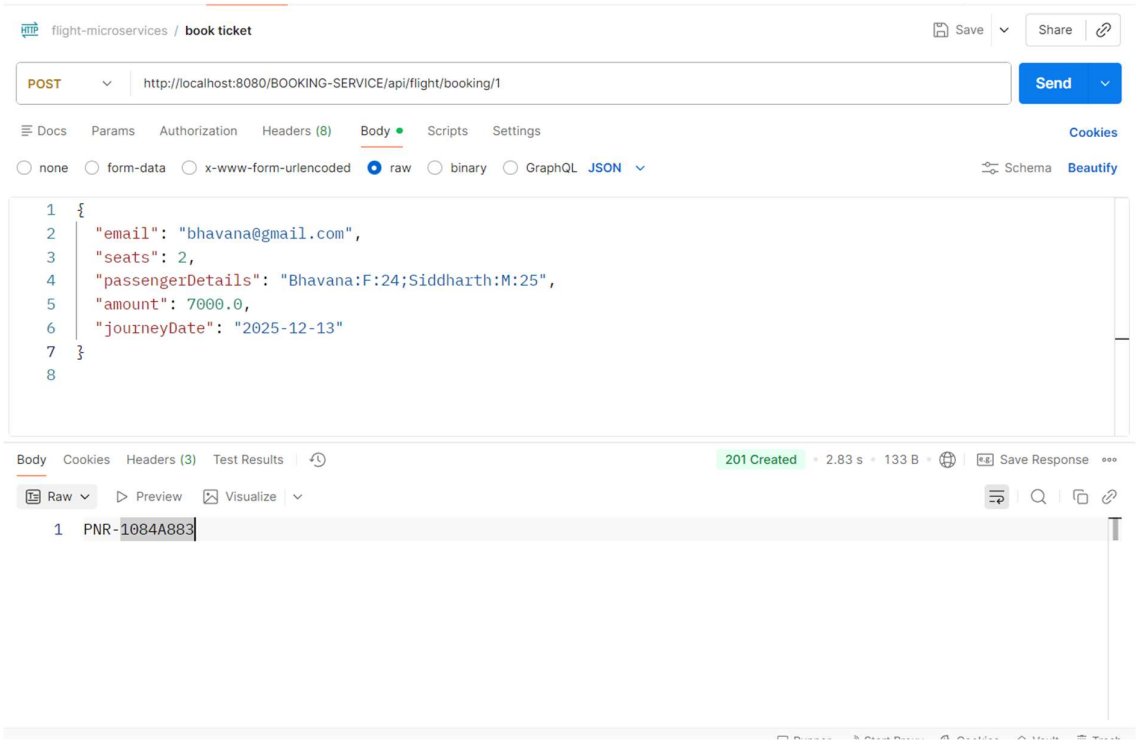
Add inventory



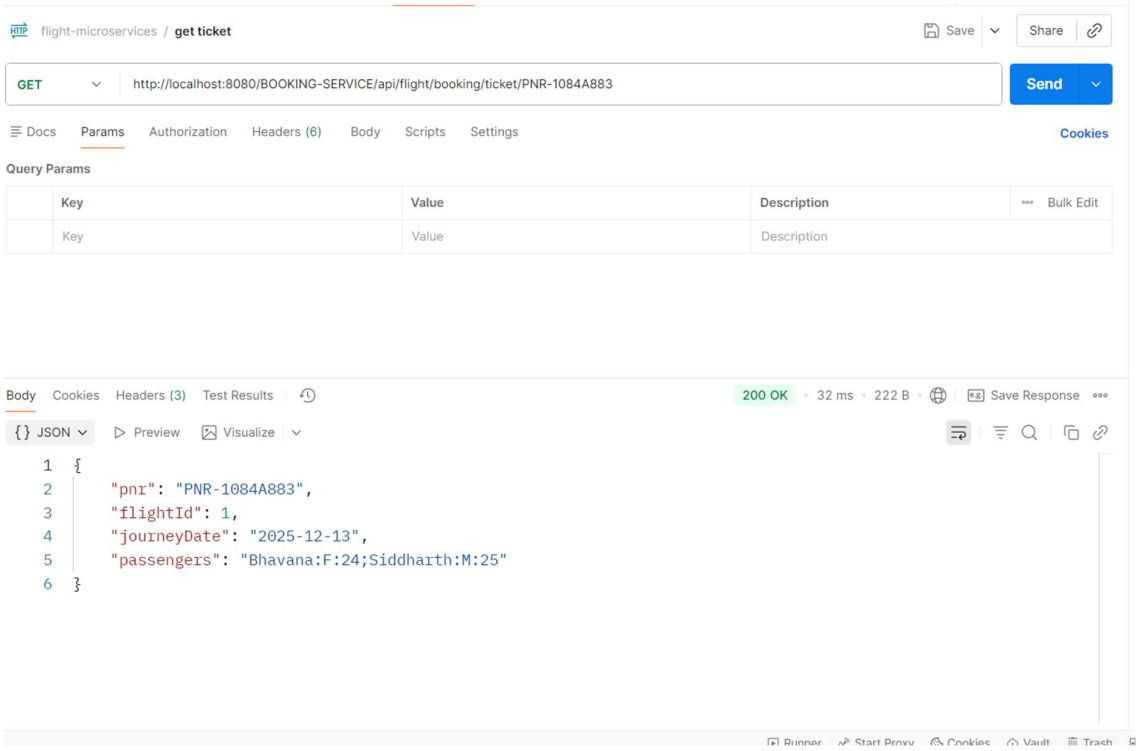
Search Flight



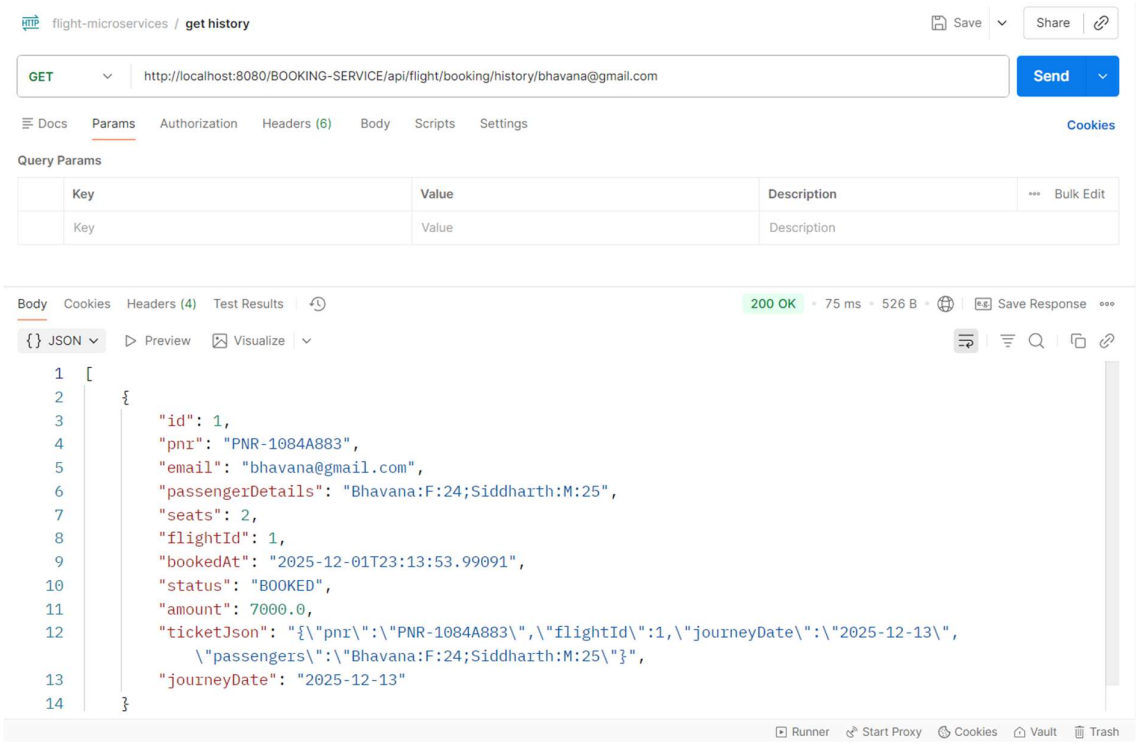
Book Ticket



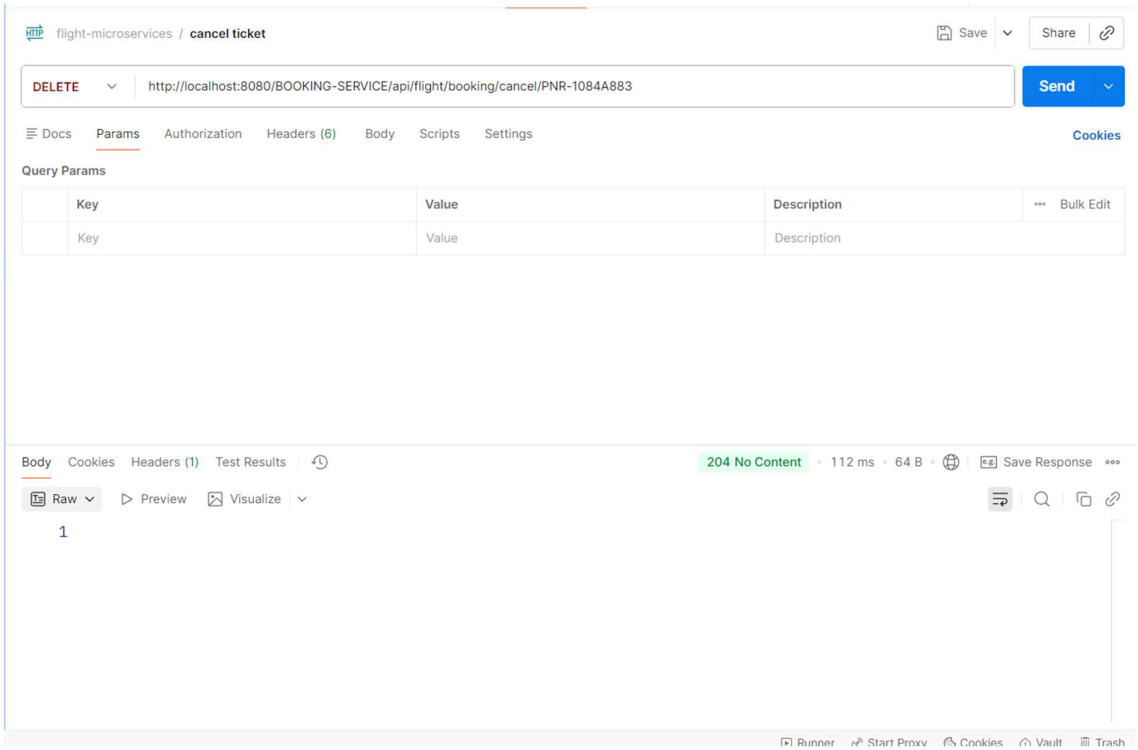
Get ticket



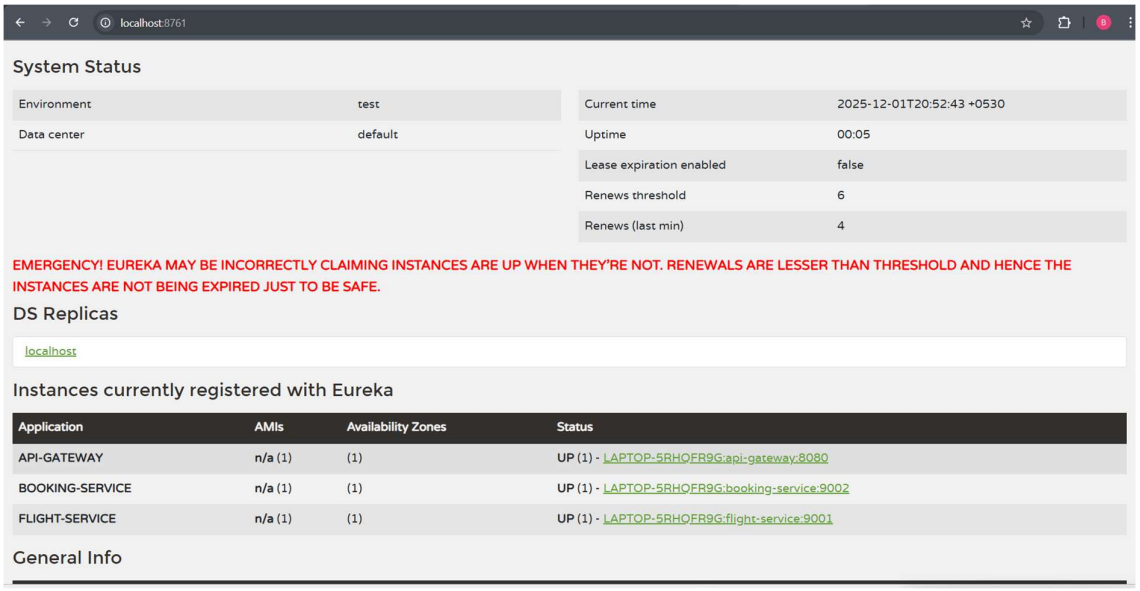
Get history



Cancel ticket



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

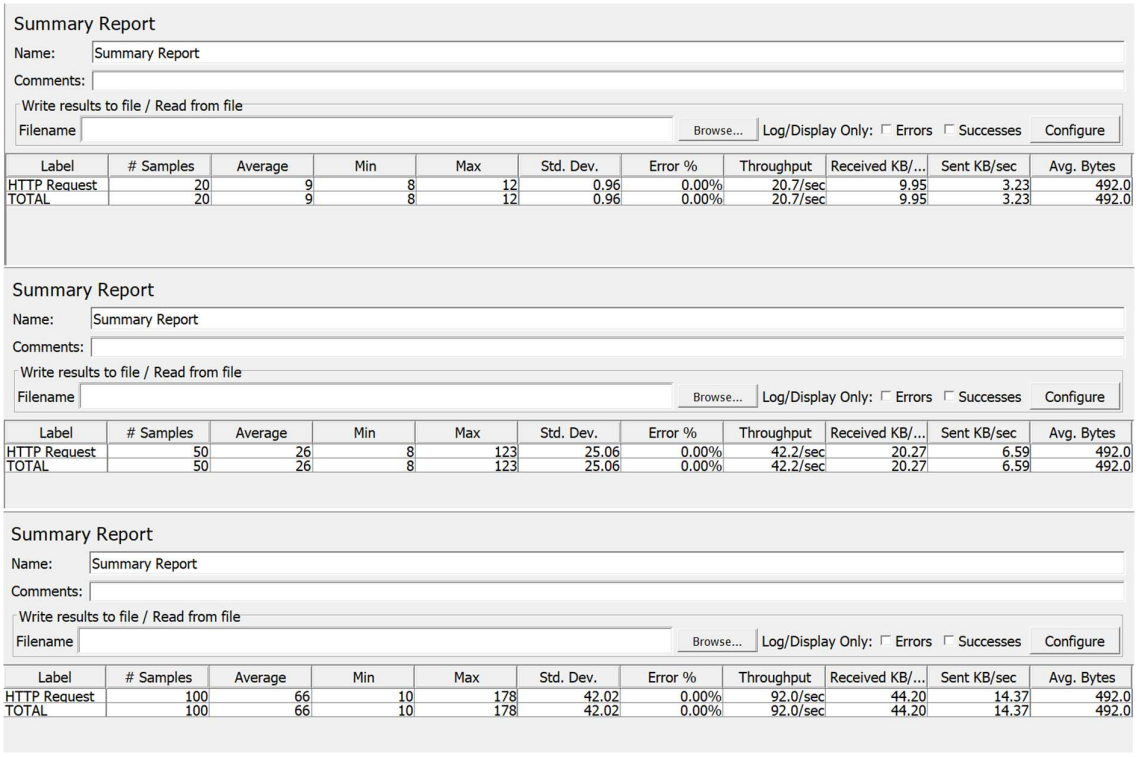
localhost

Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
API-GATEWAY	n/a (1)	(1)	UP (1) - LAPTOP-5RHQFR9G:api-gateway:8080
BOOKING-SERVICE	n/a (1)	(1)	UP (1) - LAPTOP-5RHQFR9G:booking-service:9002
FLIGHT-SERVICE	n/a (1)	(1)	UP (1) - LAPTOP-5RHQFR9G: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

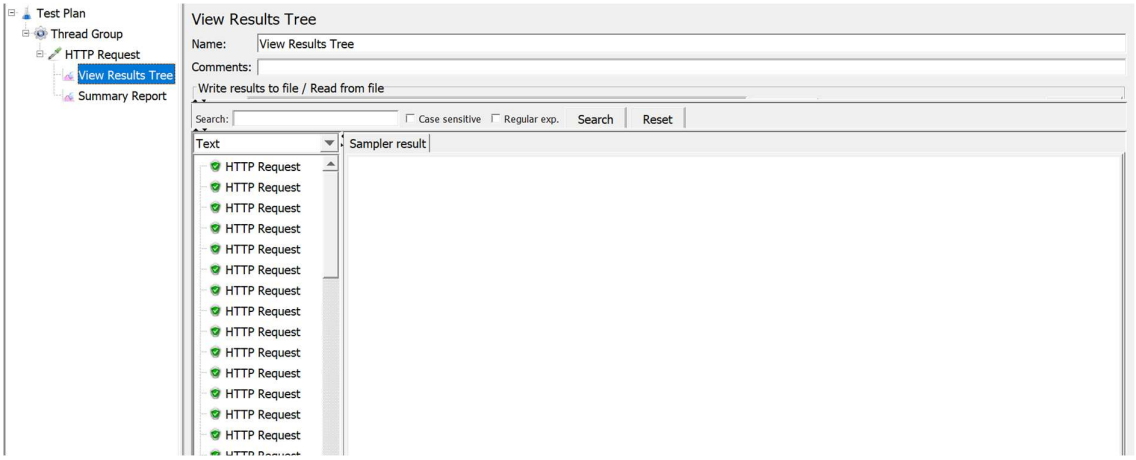
Name: Summary Report

Comments:

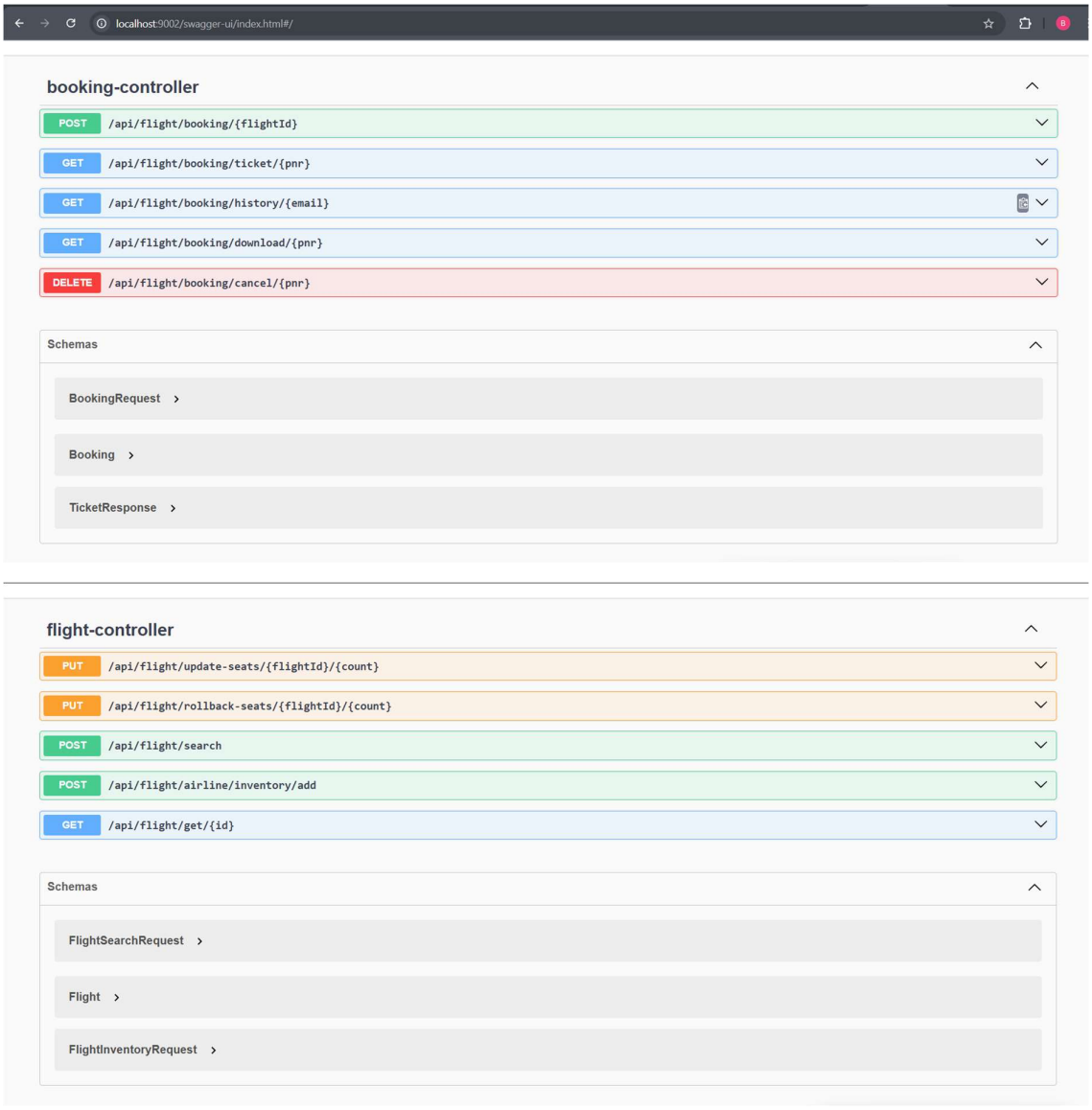
Write results to file / Read from file

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


Test Plan
Thread Group
HTTP Request
View Results Tree
Summary Report
View Results Tree
Name:
View Results Tree
Comments:
Write results to file / Read from file
Search:
Case sensitive
Regular exp.
Search
Reset
Text
Sampler result
HTTP Request

Swagger


localhost:9002/swagger-ui/index.html#/
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
```