CHUBB®

WEEK-6 ASSIGNMENT

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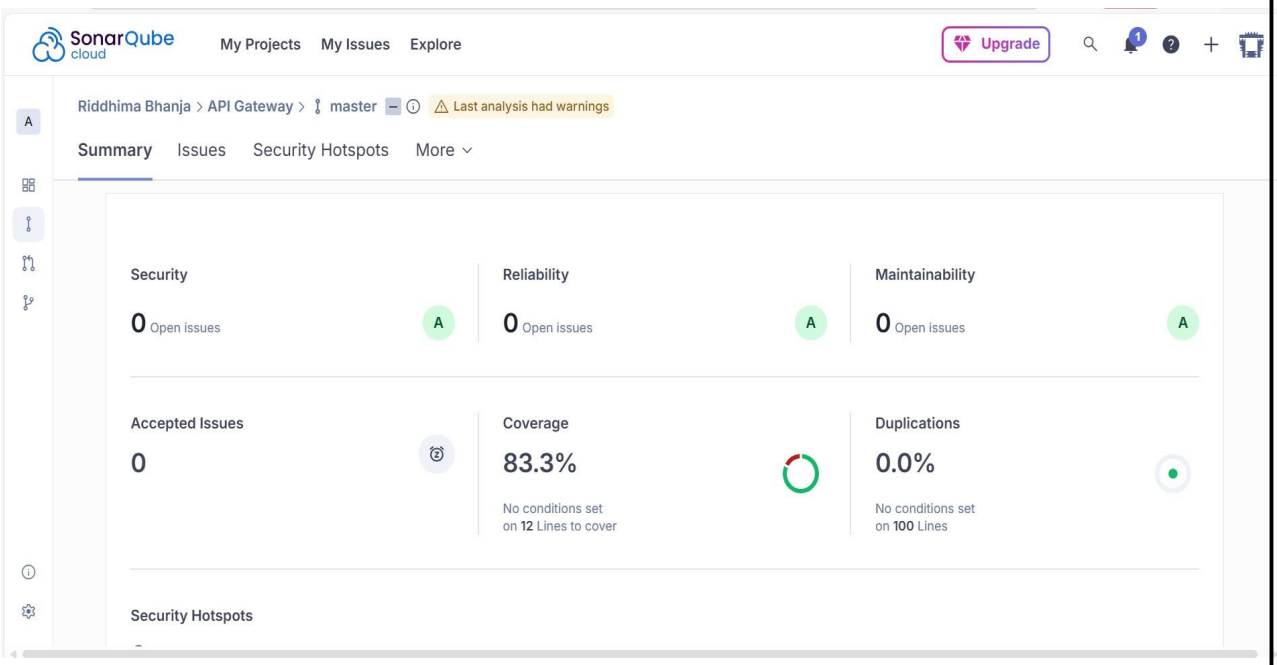
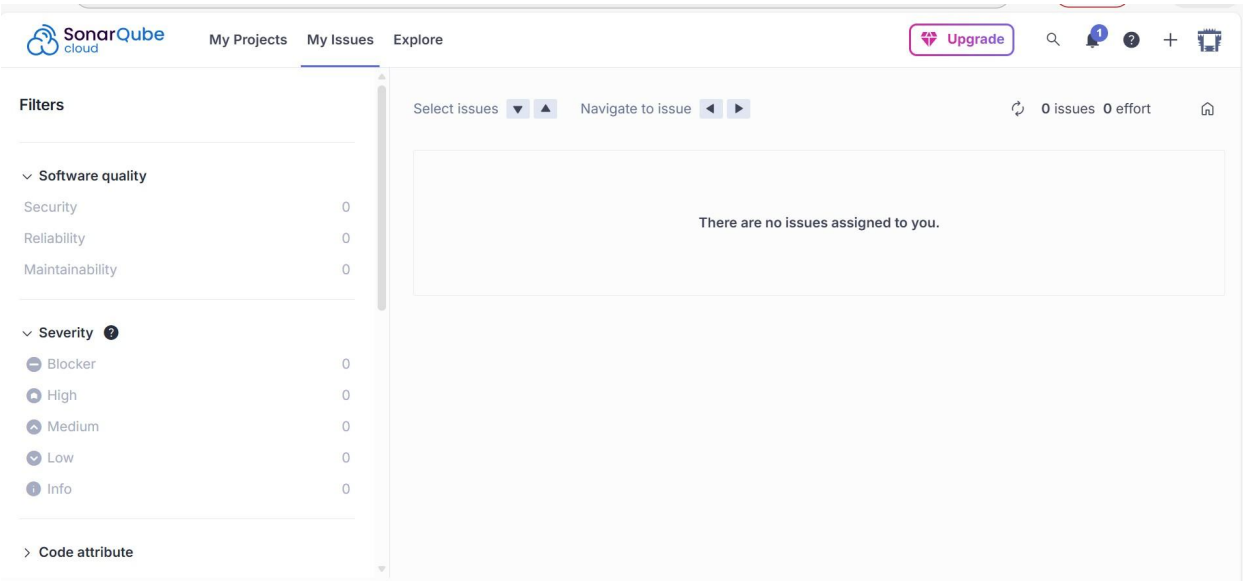
INDEX

Content	Page No.
1. SonarQube Code Coverage	1
2. SonarQube Issues	3
3. System Architecture	5
4. JMeter	6
— JMeter Result Tree	6
— JMeter Summary Report	6
— Apache JMeter Dashboard	7
5. Jacoco Code Coverage	9
— API Gateway	9
— Booking Service	10
— Flight Service	10
6. MongoDB Screenshots	11
7. Postman Screenshots	11
— Circuit Breaker	11
— — Events	12
— — Status	12
— Health Checks	13
— — API Gateway Health	13
— — Booking Service Health	13
— — Eureka Server Health	14
— — Flight Service Health	14
— Add Flight	15
— Book Flight	15
— Cancel Booking	15
— Get Booking by PNR	16
— Get Booking History	16
8. Email	17
— With PDF	17
— Without PDF	17
— Fallback Case	17
9. Eureka Dashboard	17

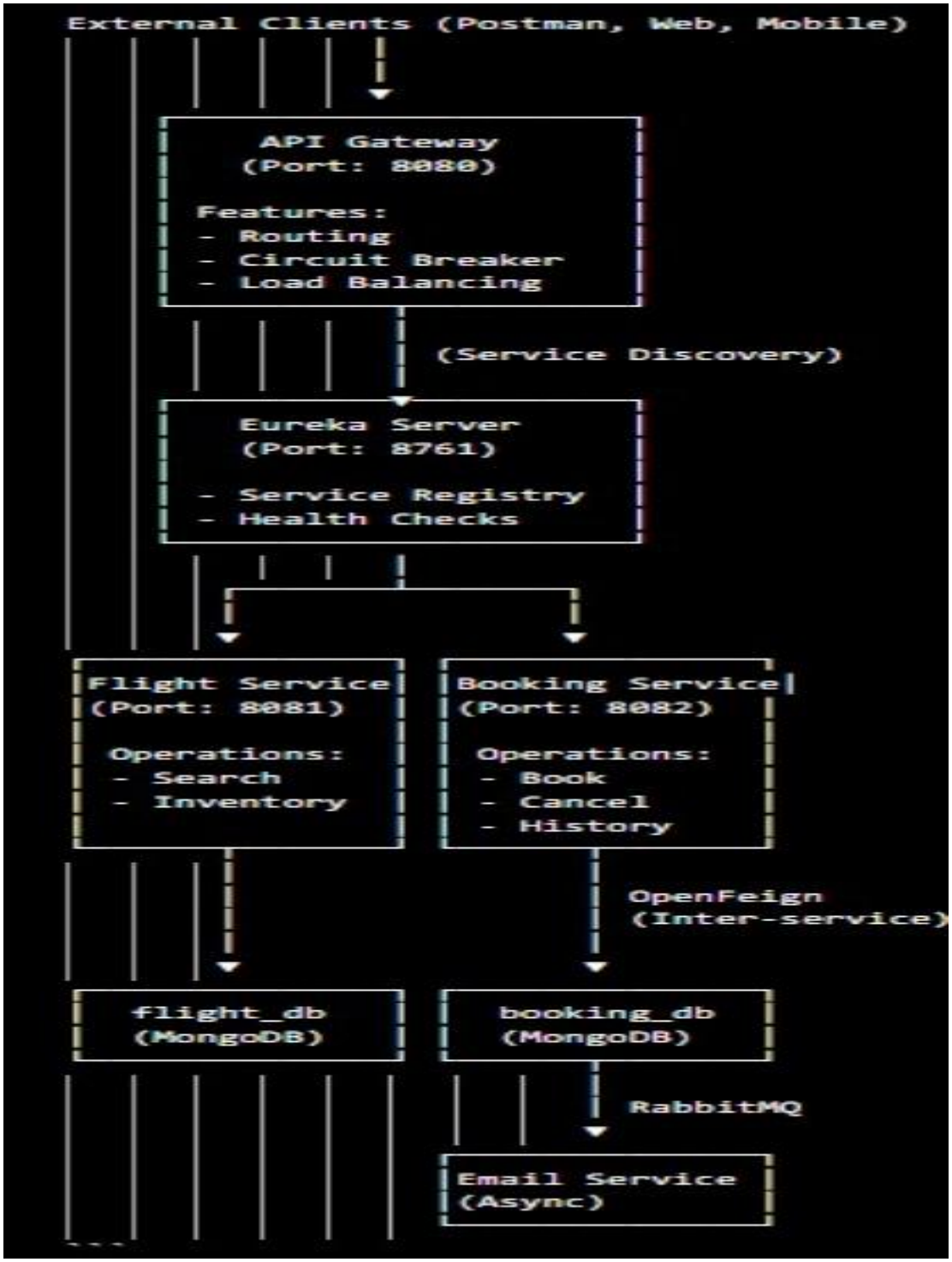
1. SonarQUBE Code Coverage



2. SonarQube Issues

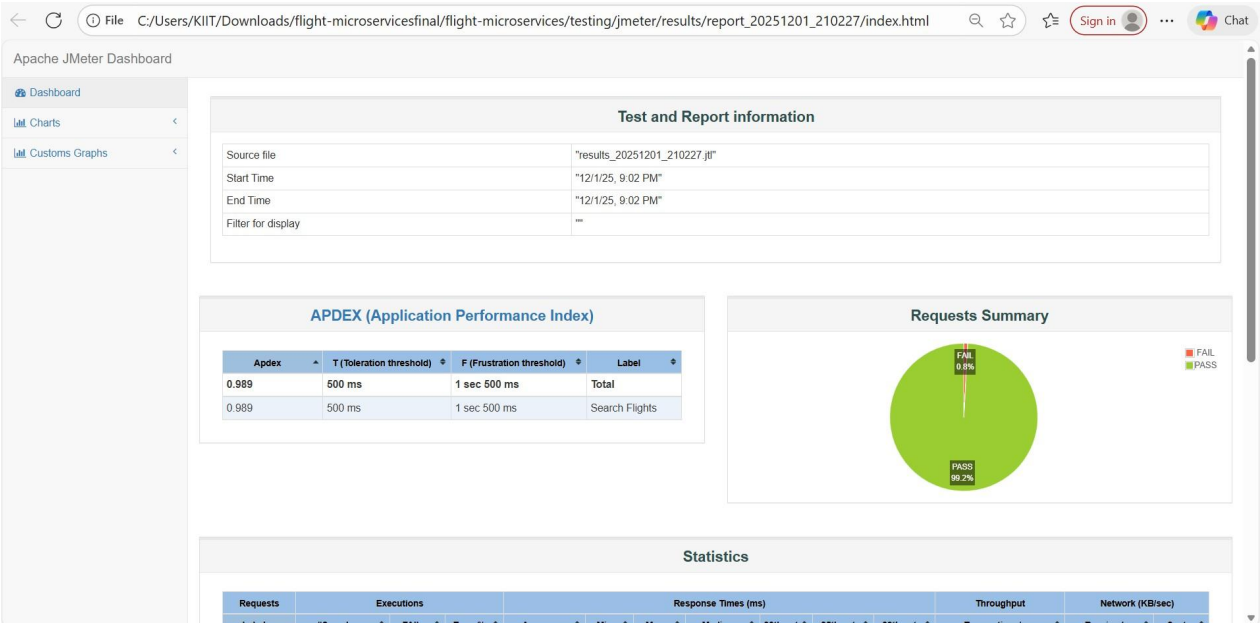


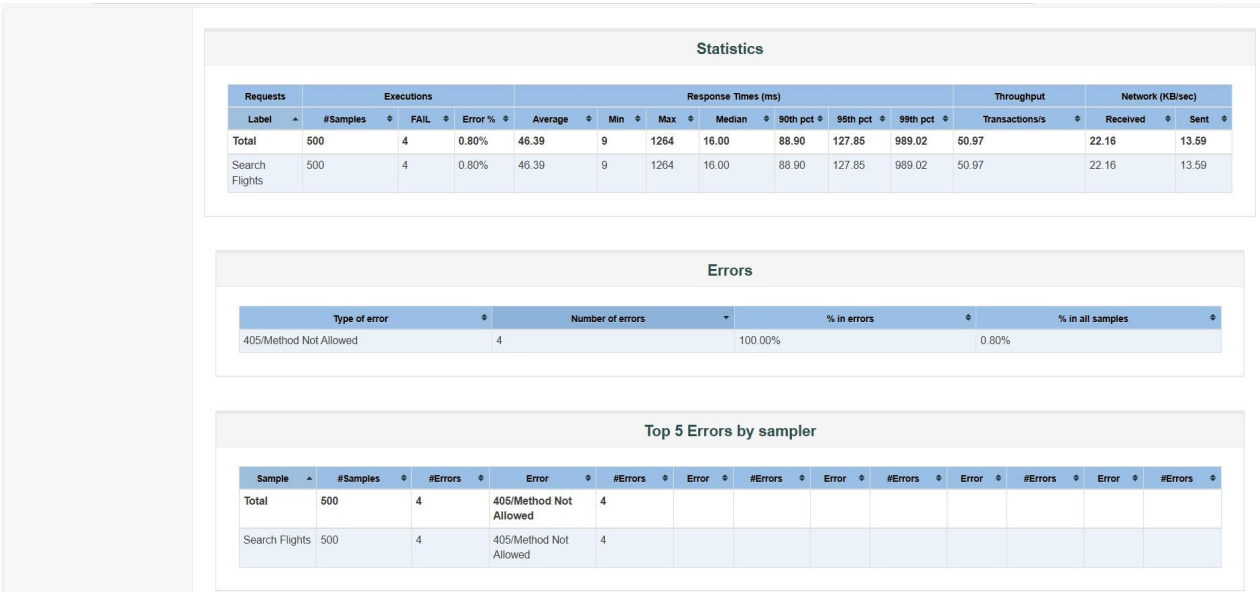
3. System Architecture



4. Jmeter

- Apache Jmeter Dashboard





Statistics

Requests	Executions			Response Times (ms)							Throughput	Network (KB/sec)	
Label	#Samples	FAIL	Error %	Average	Min	Max	Median	90th pct	95th pct	99th pct	Transactions/s	Received	Sent
Total	**500**	**4**	**0.80%**	**46.39**	**9**	**1264**	**16.00**	**88.90**	**127.85**	**989.02**	**50.97**	**22.16**	**13.59**
Search Flights	500	4	0.80%	46.39	9	1264	16.00	88.90	127.85	989.02	50.97	22.16	13.59

Errors

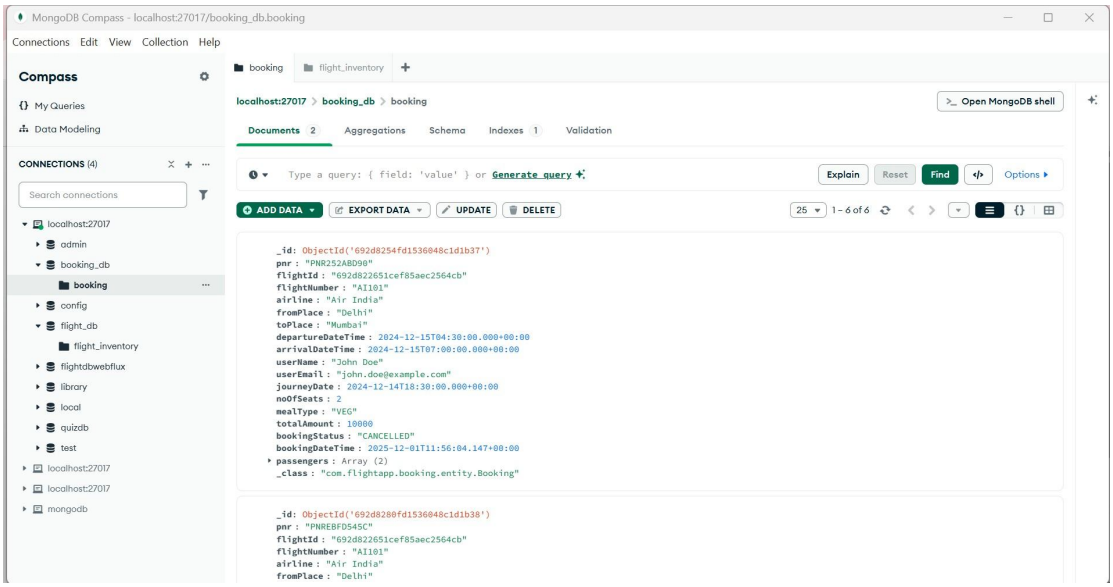
Type of error	Number of errors	% in errors	% in all samples
405/Method Not Allowed	4	100.00%	0.80%

Top 5 Errors by sampler

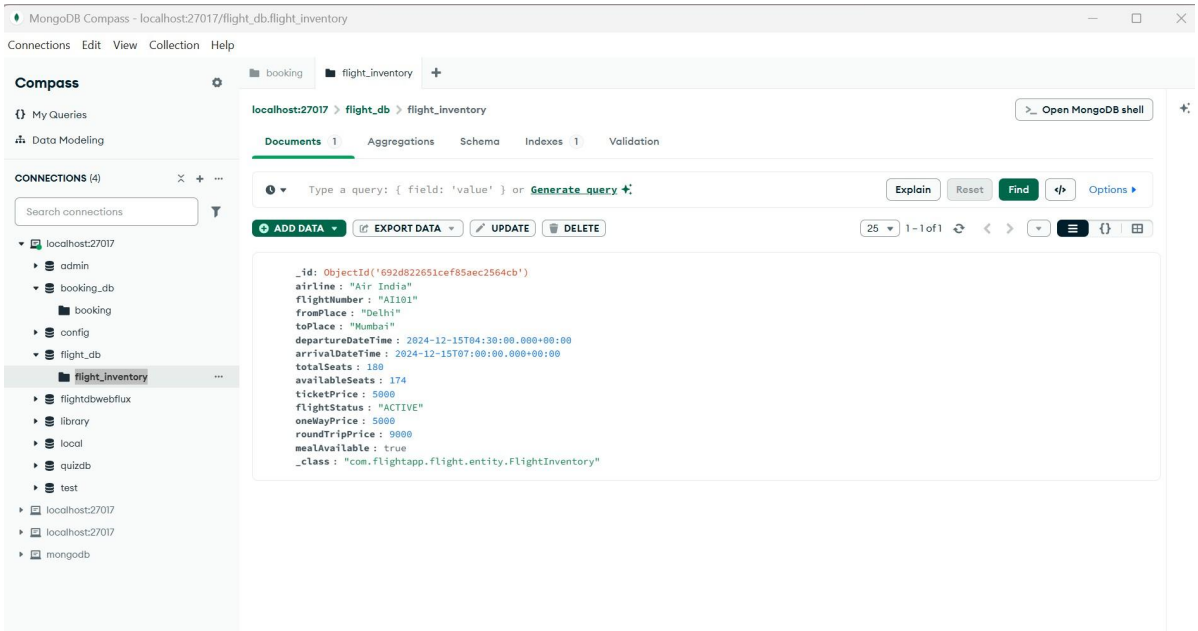
Sample	#Samples	#Errors	Error	#Errors	Error	#Errors	Error	#Errors	Error	#Errors	Error	#Errors
Total	**500**	**4**	**405/Method Not Allowed**	**4**								
Search Flights	500	4	405/Method Not Allowed	4								

5. Mongodb screenshots

- Booking_db

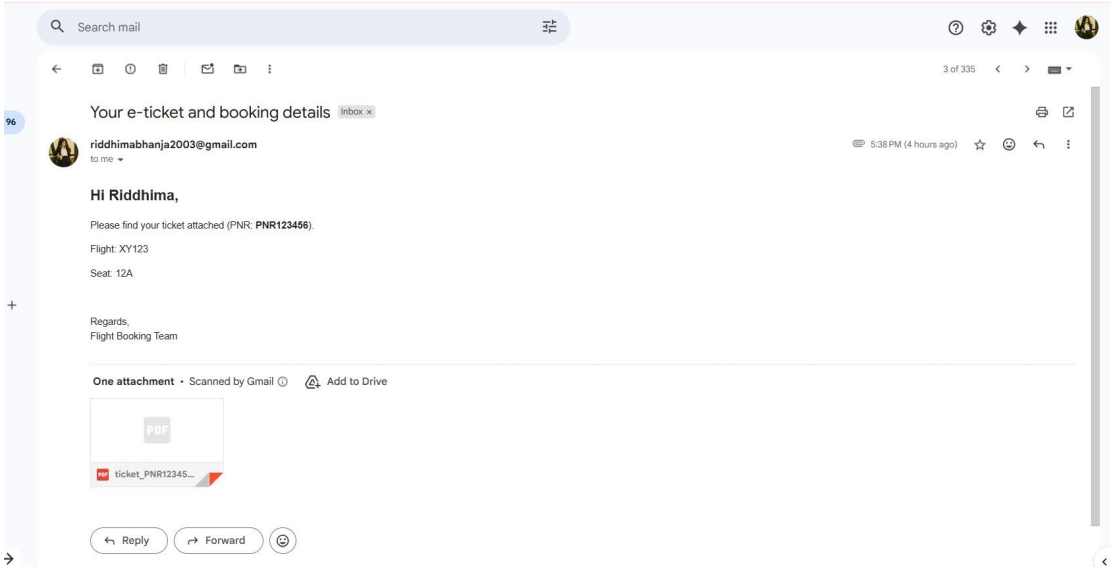


- Flight_db



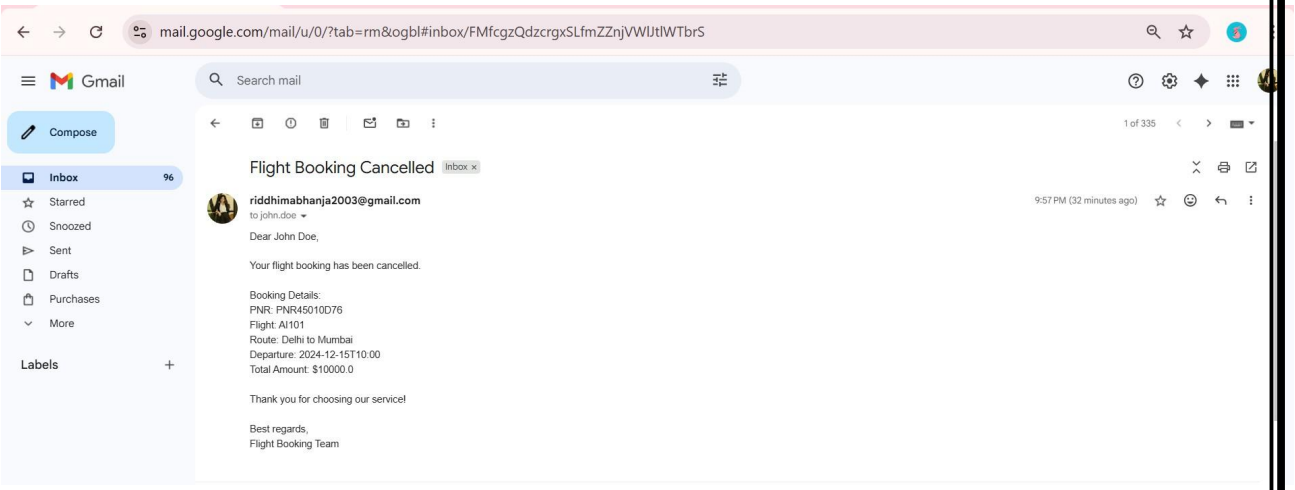
6. Email

- Email with pdf

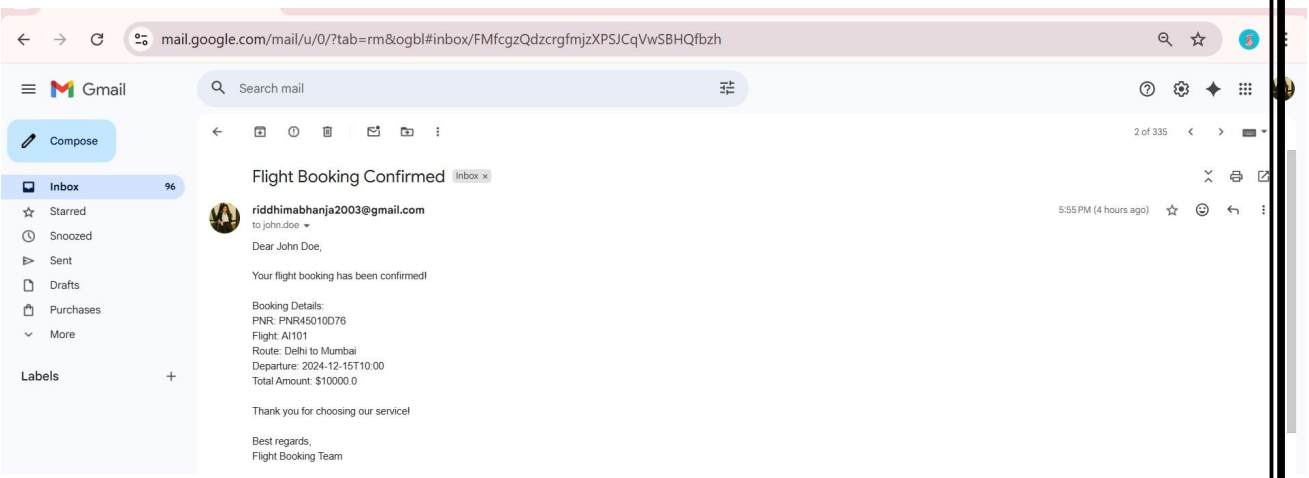


- Email without pdf

- <u>Flight cancel email</u>



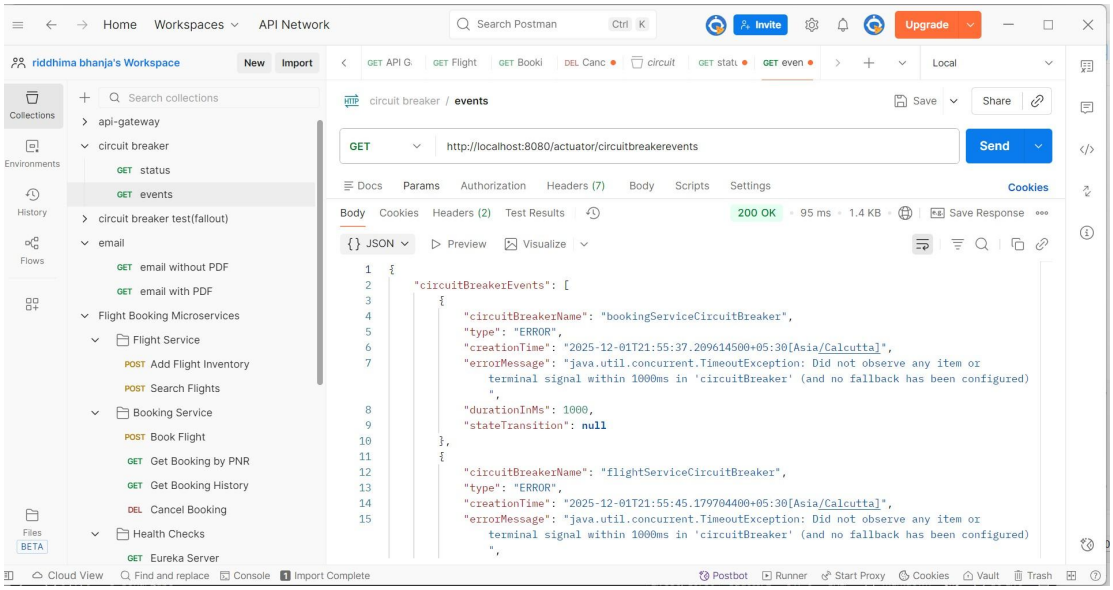
- <u>Flight Confirm email</u>



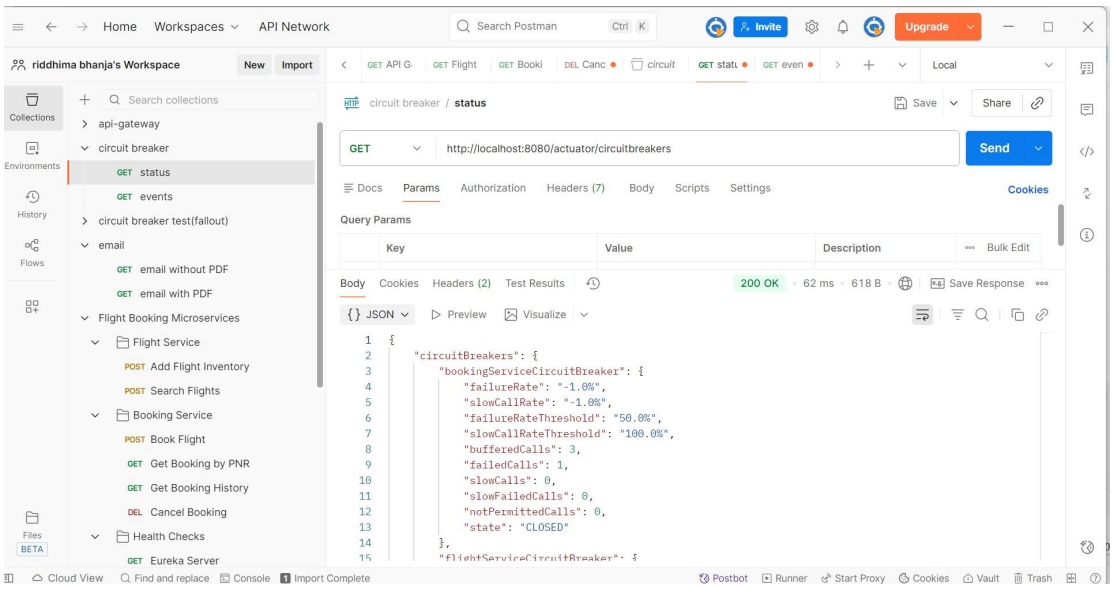
7. Postman screenshots

- **Circuit Breaker**

Events:

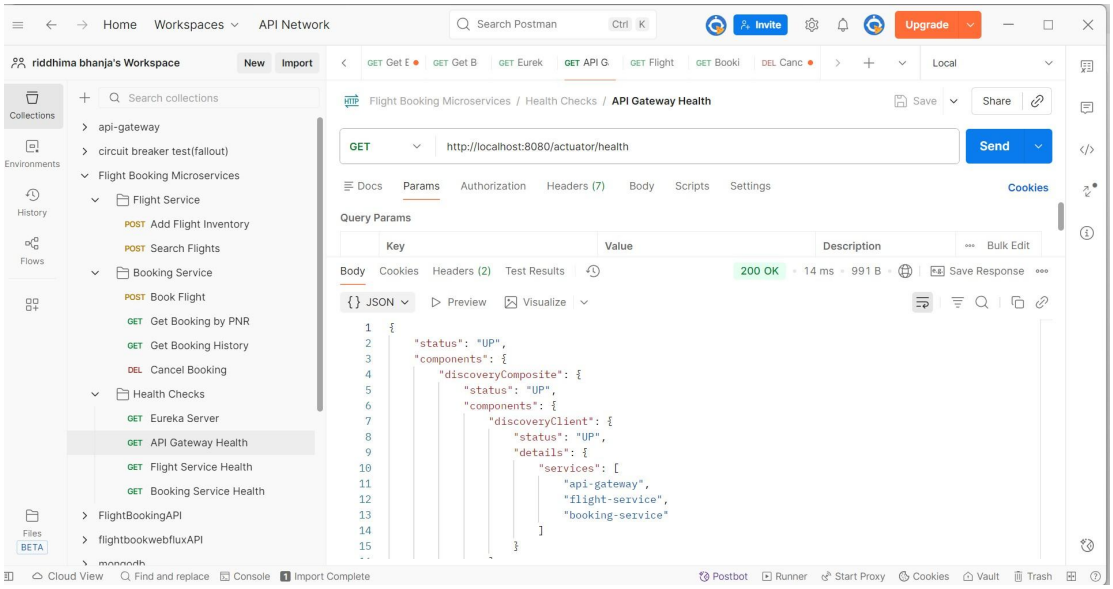


Status:

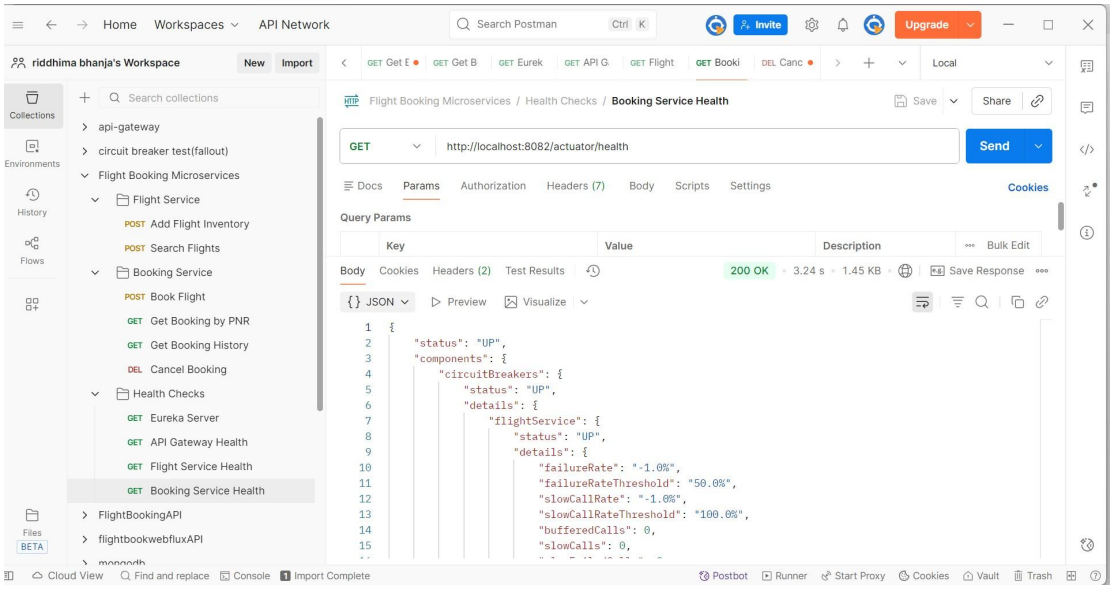


- **Health Check**

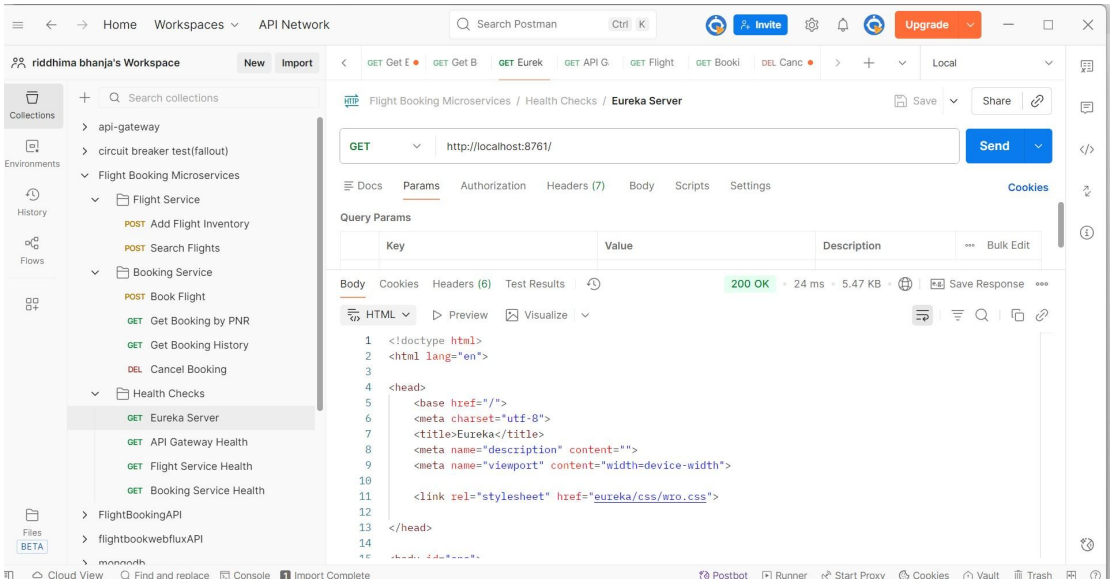
API gateway health:



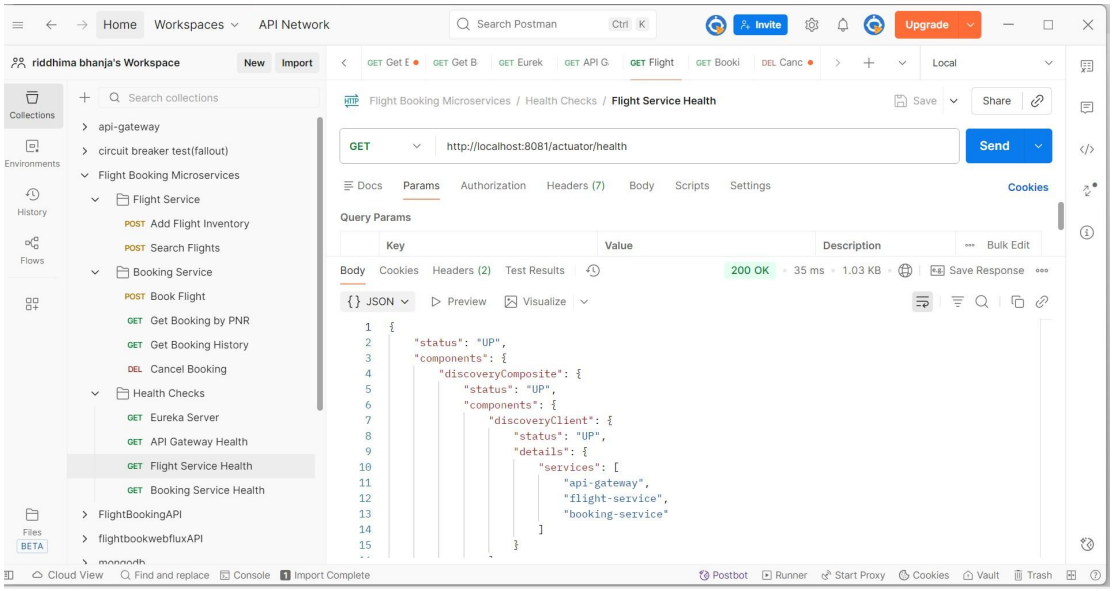
Booking Service Health:



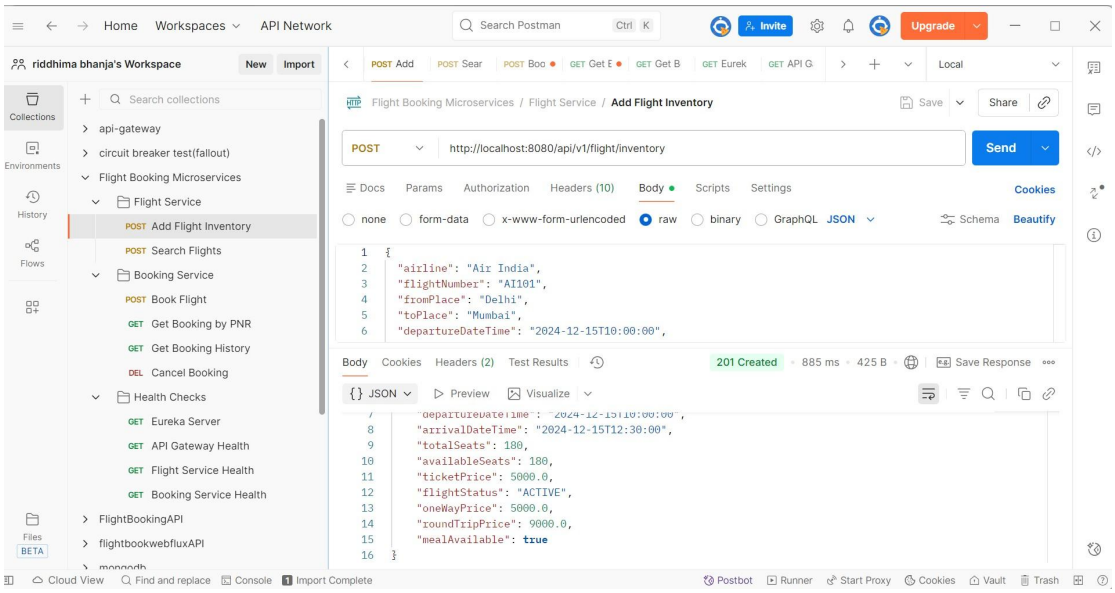
Eureka server:



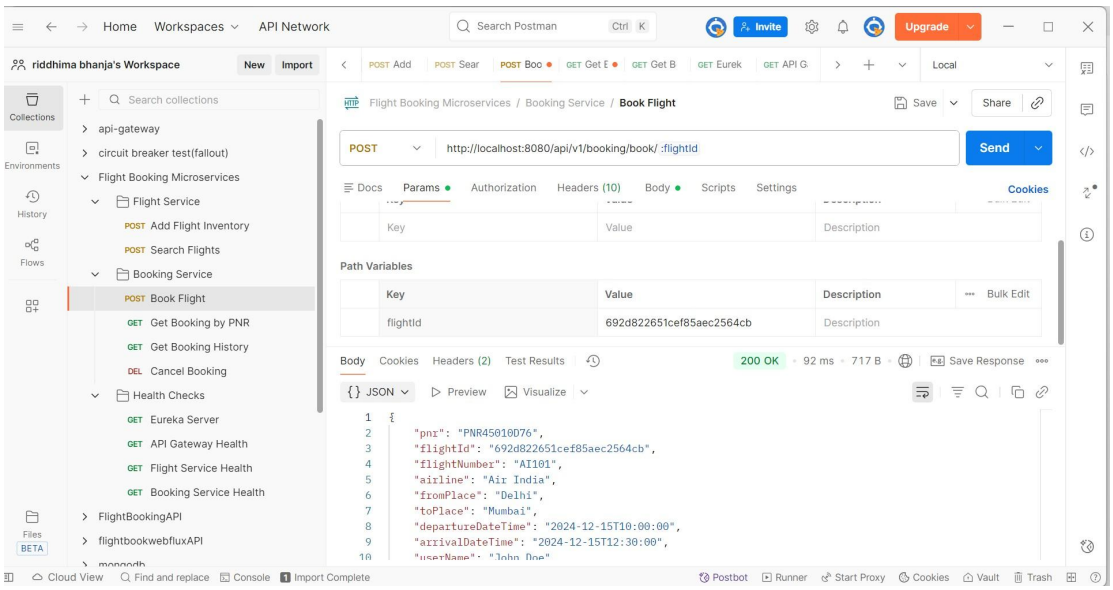
Flight Service Health:



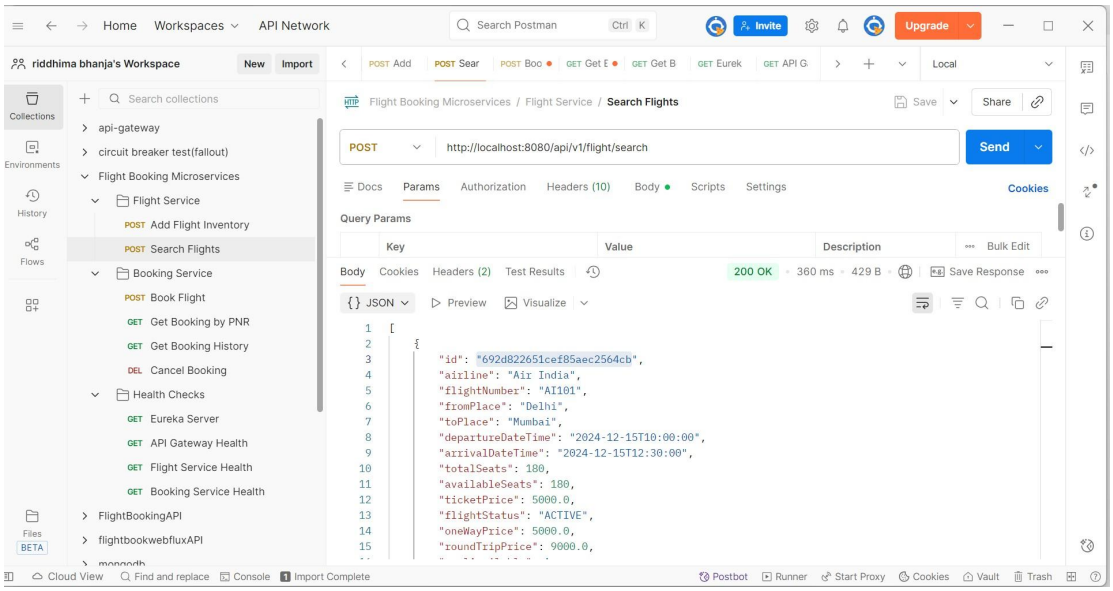
ADD FLIGHT



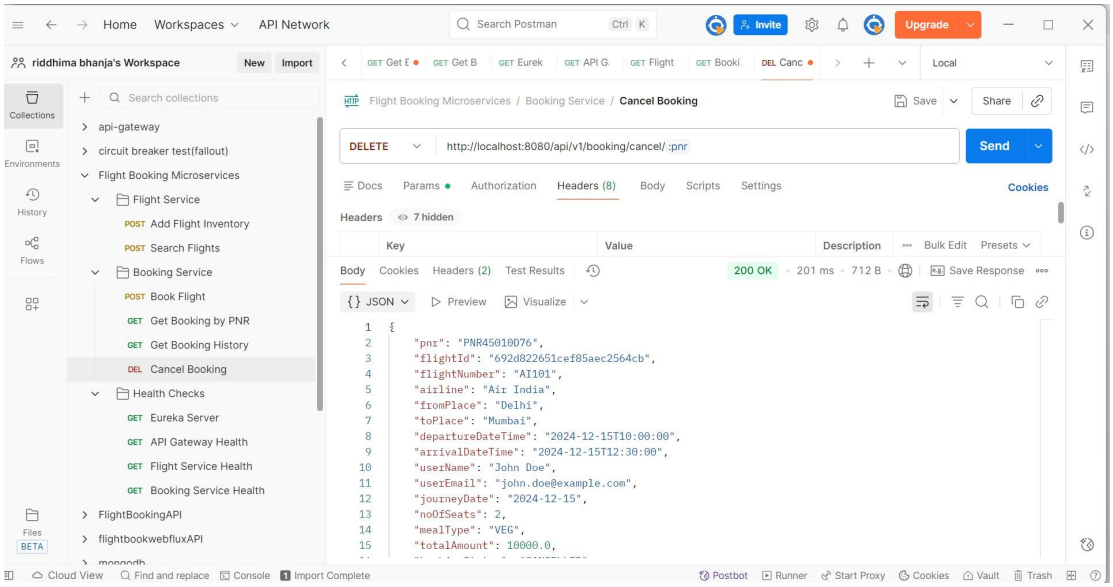
BOOK FLIGHT



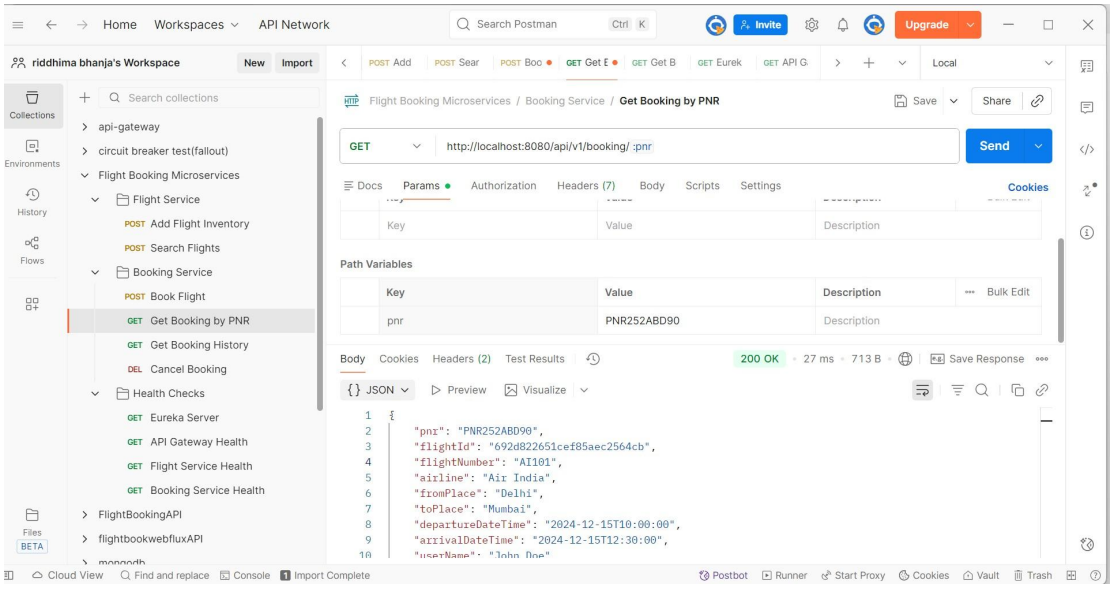
SEARCH FLIGHTS



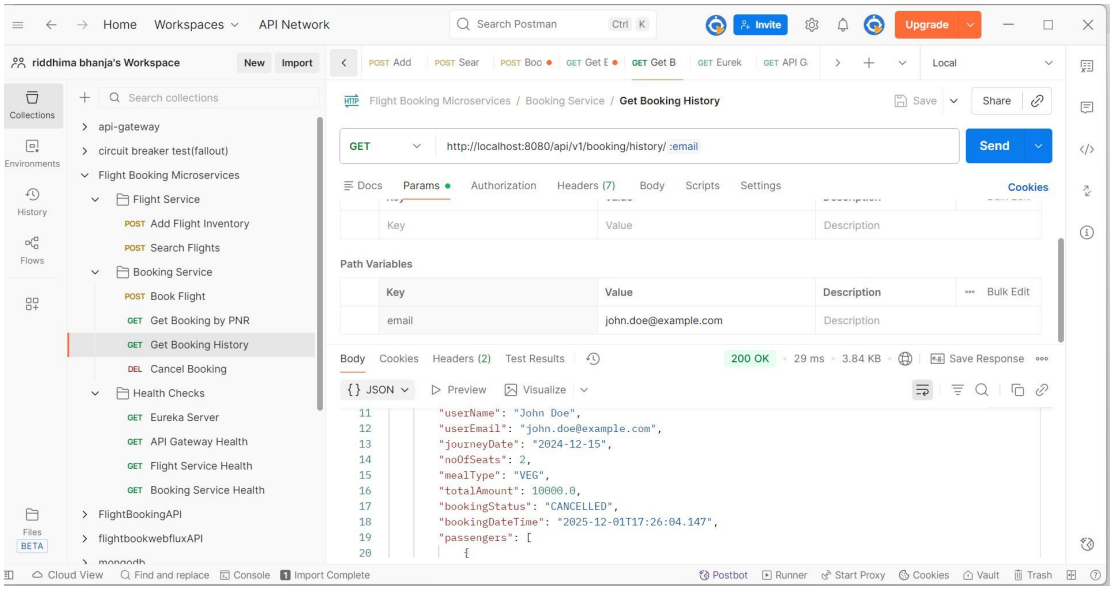
CANCEL BOOKING



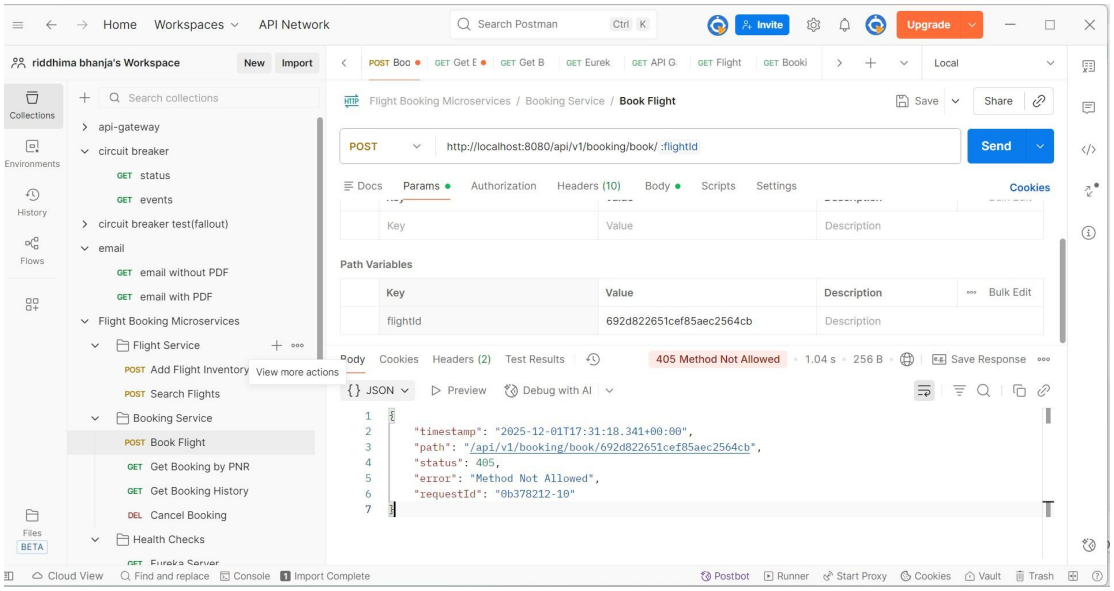
GET BOOKING BY PNR



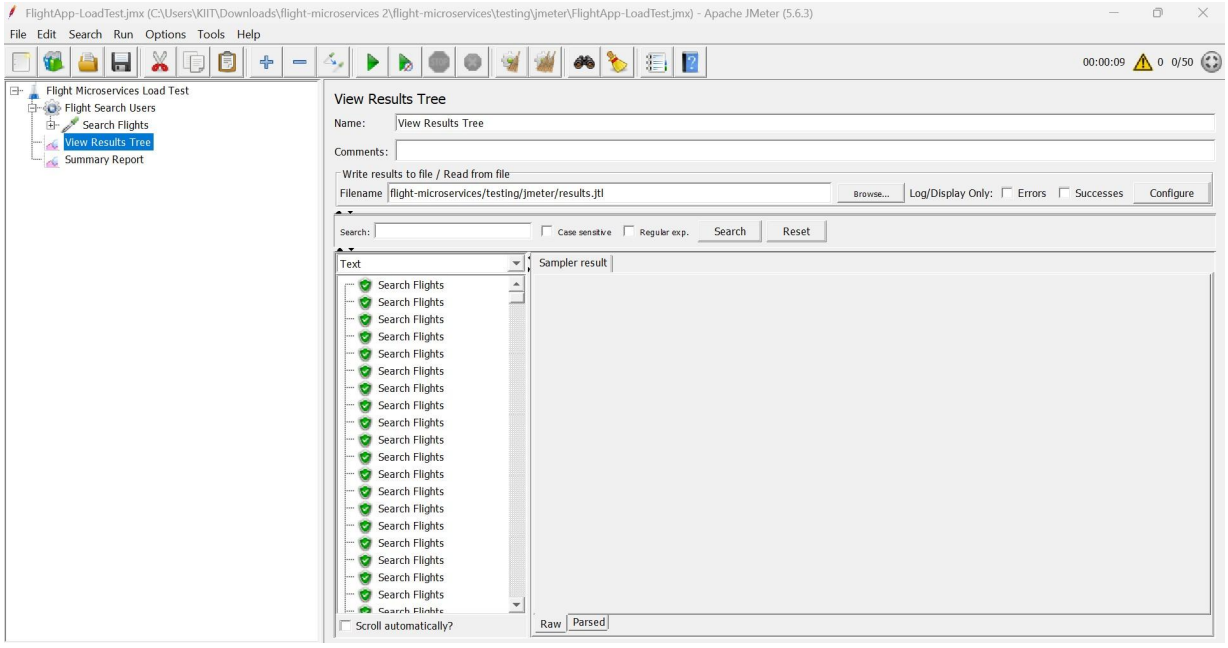
GET BOOKING HISTORY



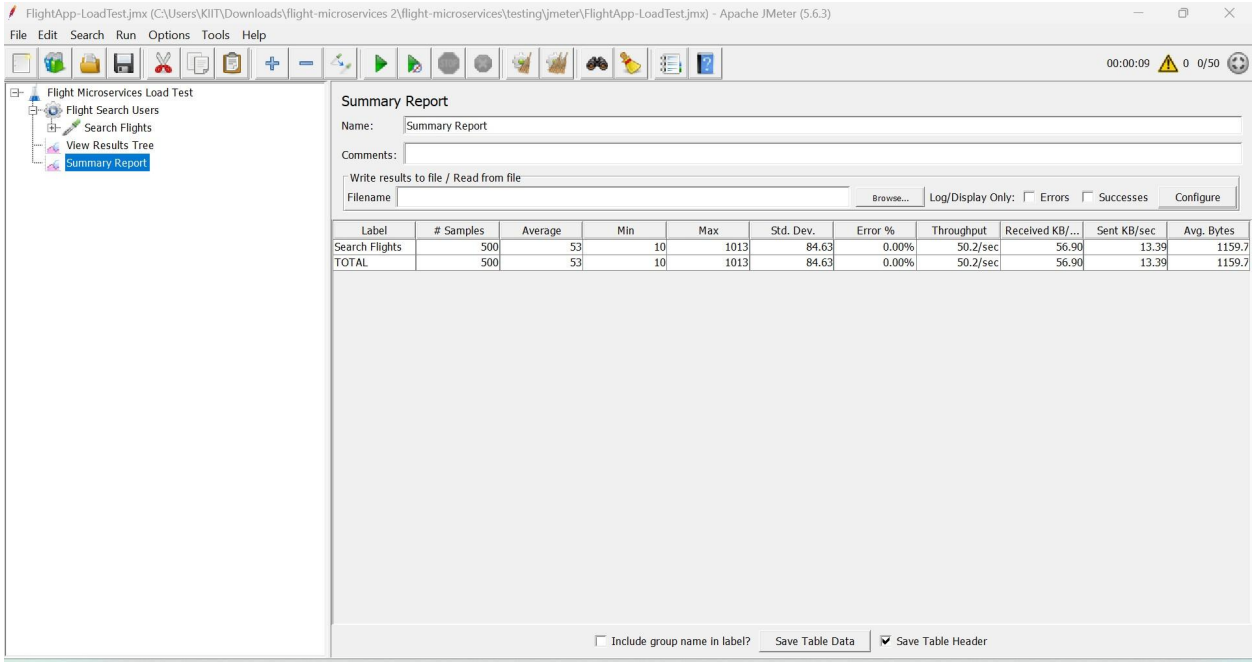
FALLBACK case



- Jmeter result tree



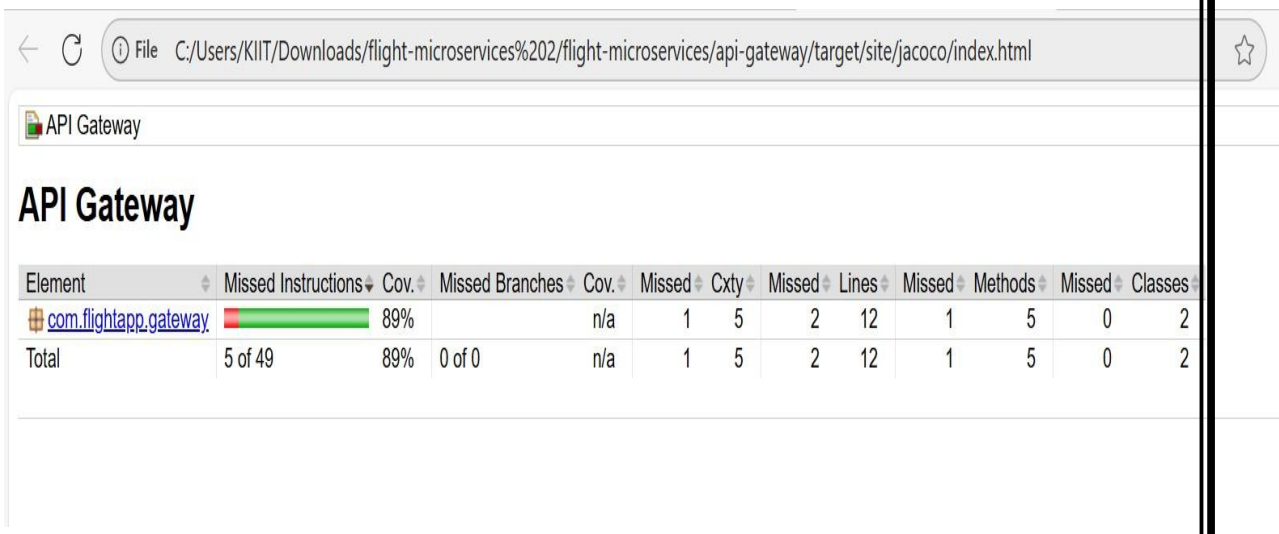
- Jmeter Summary report



Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Search Flights	500	53	10	1013	84.63	0.00%	50.2/sec	56.90	13.39	1159.7
TOTAL	500	53	10	1013	84.63	0.00%	50.2/sec	56.90	13.39	1159.7

8. Jacoco Code Coverage

- API Gateway



Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.flightapp.gateway		89%		n/a	1	5	2	12	1	5	0	2
Total	5 of 49	89%	0 of 0	n/a	1	5	2	12	1	5	0	2

- Flight Service

Flight Service

Flight Service

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.flightapp.flight.dto		32%		0%	72	124	0	22	10	62	0	4
com.flightapp.flight.entity		32%		0%	64	111	0	18	5	52	0	2
com.flightapp.flight.config		63%		n/a	1	4	5	14	1	4	0	1
com.flightapp.flight		37%		n/a	1	2	2	3	1	2	0	1
com.flightapp.flight.service		100%		100%	0	15	0	39	0	12	0	1
com.flightapp.flight.controller		100%		n/a	0	6	0	6	0	6	0	1
com.flightapp.flight.constants		100%		n/a	0	1	0	2	0	1	0	1
com.flightapp.flight.exception		100%		n/a	0	1	0	2	0	1	0	1
Total	1,112 of 1,915	41%	242 of 248	2%	138	264	7	106	17	140	0	12

Created with JaCoCo 0.8.12.202403310830

- Booking Service

Booking Service

Booking Service

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.flightapp.booking.dto		24%		0%	200	291	8	48	47	138	1	6
com.flightapp.booking.entity		26%		0%	129	187	2	31	31	89	0	4
com.flightapp.booking.event		20%		0%	63	76	11	13	24	37	0	2
com.flightapp.booking.service		64%		33%	11	31	38	122	7	25	1	2
com.flightapp.booking.config		21%		n/a	8	10	17	22	8	10	1	2
com.flightapp.booking.client		0%		n/a	5	5	19	19	5	5	1	1
com.flightapp.booking		37%		n/a	1	2	2	3	1	2	0	1
com.flightapp.booking.constants		100%		n/a	0	2	0	4	0	2	0	2
com.flightapp.booking.controller		100%		n/a	0	5	0	5	0	5	0	1
com.flightapp.booking.exception		100%		n/a	0	1	0	2	0	1	0	1
Total	3,222 of 4,596	29%	588 of 592	0%	417	610	97	269	123	314	4	22

Created with JaCoCo 0.8.12.202403310830

9. EUREKA DASHBOARD

spring Eureka

HOME LAST 1000 SINCE STARTUP

System Status

Environment	test	Current time	2025-12-01T20:47:22 +0530
Data center	default	Uptime	00:03
		Lease expiration enabled	true
		Renews threshold	6
		Renews (last min)	3

THE SELF PRESERVATION MODE IS TURNED OFF. THIS MAY NOT PROTECT INSTANCE EXPIRY IN CASE OF NETWORK/OTHER PROBLEMS.

DS Replicas

Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
API-GATEWAY	n/a (1)	(1)	UP (1) - localhost:api-gateway:8080
BOOKING-SERVICE	n/a (1)	(1)	UP (1) - booking-service:8082
FLIGHT-SERVICE	n/a (1)	(1)	UP (1) - flight-service:8081

General Info

Name	Value
total-avail-memory	94mb
num-of-cpus	8
current-memory-usage	64mb (68%)
server-uptime	00:03
registered-replicas	
unavailable-replicas	
available-replicas	

Instance Info

Name	Value