CHUBB®

WEEK-9 ASSIGNMENT

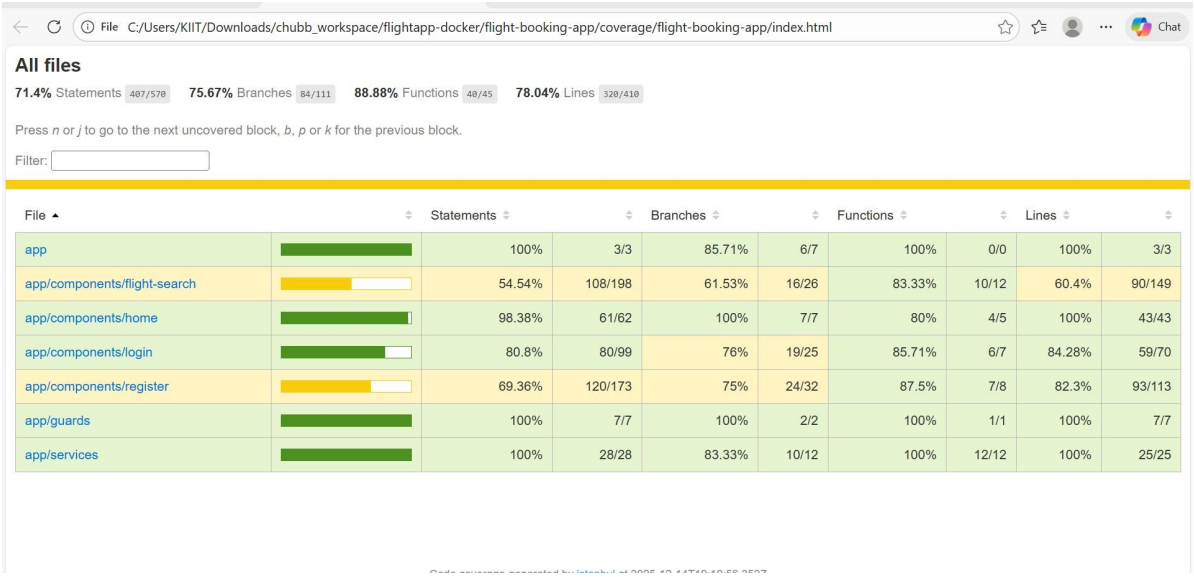
-Riddhima Bhanja
Kalinga Institute of Industrial Technology
Bhubaneswar(Java Track)

INDEX

(flight app with angular)

INDEX

CODE COVERAGE REPORTS



File C:/Users/KIIT/Downloads/chubb_workspace/flightapp-docker/flight-booking-app/coverage/flight-booking-app/index.html

Chat

All files

71.4% Statements 407/570 **75.67%** Branches 84/111 **88.88%** Functions 40/45 **78.04%** Lines 320/410

Press *n* or *j* to go to the next uncovered block, *b*, *p* or *k* for the previous block.

Filter:

File		Statements		Branches		Functions		Lines	
app		100%	3/3	85.71%	6/7	100%	0/0	100%	3/3
app/components/flight-search		54.54%	108/198	61.53%	16/26	83.33%	10/12	60.4%	90/149
app/components/home		98.38%	61/62	100%	7/7	80%	4/5	100%	43/43
app/components/login		80.8%	80/99	76%	19/25	85.71%	6/7	84.28%	59/70
app/components/register		69.36%	120/173	75%	24/32	87.5%	7/8	82.3%	93/113
app/guards		100%	7/7	100%	2/2	100%	1/1	100%	7/7
app/services		100%	28/28	83.33%	10/12	100%	12/12	100%	25/25

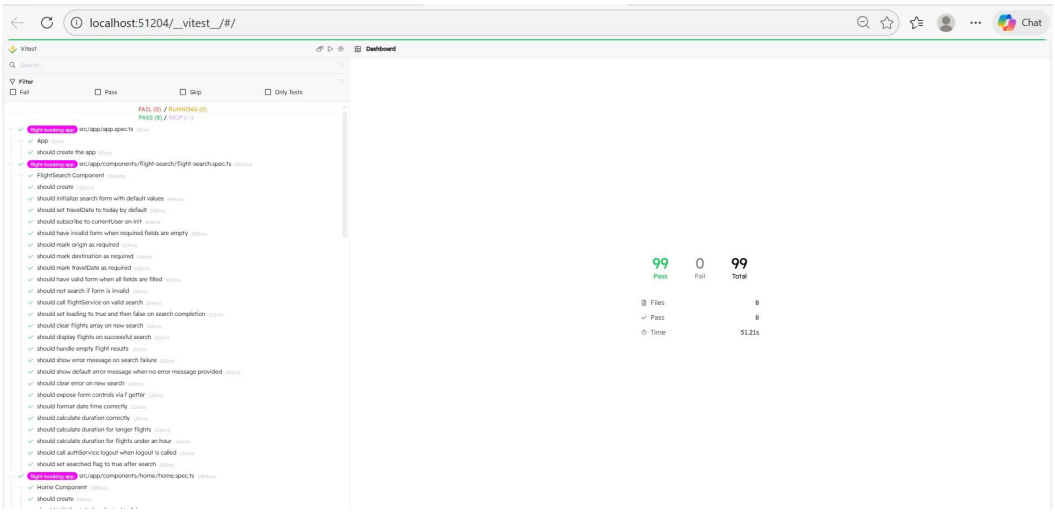
CODE COVERAGE BREAKDOWN

```
PS C:\Users\KIIT\Downloads\chubb_workspace\flightapp-docker\flight-booking-app> npm run test:coverage

> flight-booking-app@0.0.0 test:coverage
> ng test --coverage

Initial chunk files   | Names               |  Raw size
spec-flight-search.js | spec-flight-search  |  66.94 kB |
spec-register.js      | spec-register       |  48.87 kB |
spec-login.js         | spec-login          |  32.60 kB |
spec-home.js          | spec-home           |  23.71 kB |
spec-auth.js          | spec-auth           |   5.17 kB |
chunk-FB5WBBAN.js     | -                   |   4.66 kB |
spec-flight.js        | spec-flight         |   3.76 kB |
spec-auth-guard.js    | spec-auth-guard     |   2.60 kB |
chunk-62UV37PV.js     | -                   |   2.50 kB |
spec-app.js           | spec-app            |   1.78 kB |
init-testbed.js       | init-testbed        |   1.20 kB |
chunk-LGBCSKED.js     | -                   |   1.11 kB |
styles.css            | styles              | 367 bytes |

                      | Initial total       | 195.26 kB

Application bundle generation complete. [4.382 seconds] - 2025-12-14T19:10:40.944Z

Watch mode enabled. Watching for file changes...

DEV v4.0.15 C:/Users/KIIT/Downloads/chubb_workspace/flightapp-docker/flight-booking-app
```

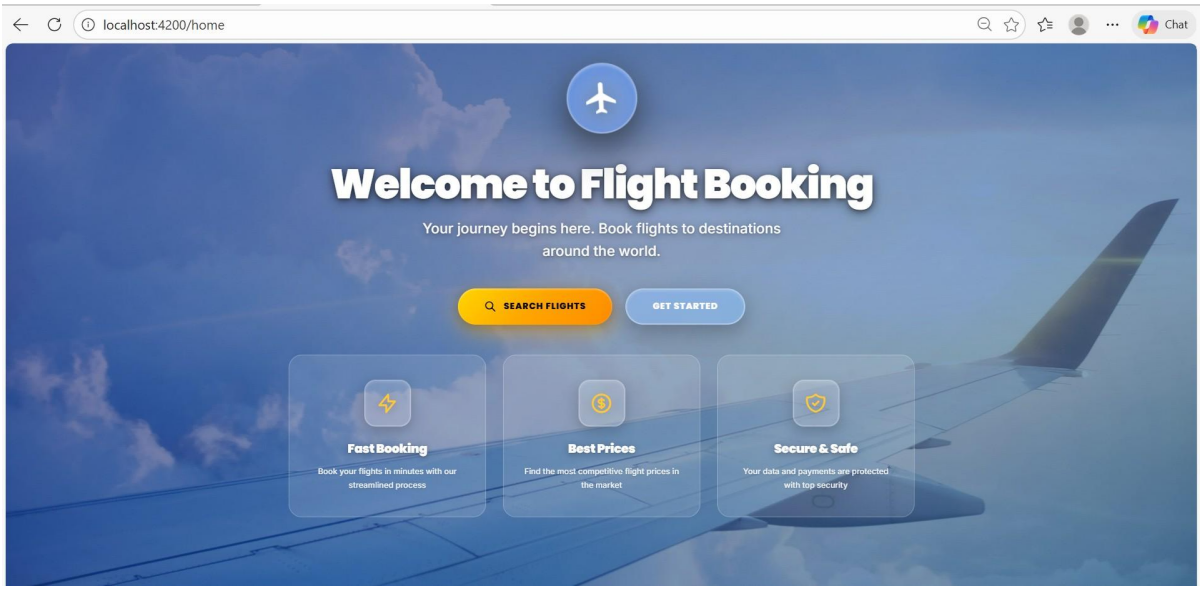
```
DEV  v4.0.15 C:/Users/KIIT/Downloads/chubb_workspace/flightapp-docker/flight-booking-app
     Coverage enabled with v8

 ✓ flight-booking-app src/app/components/home/home.spec.ts (7 tests) 1227ms
     ✓ should create  404ms
 ✓ flight-booking-app src/app/services/auth.spec.ts (14 tests) 154ms
 ✓ flight-booking-app src/app/app.spec.ts (1 test) 15ms
 ✓ flight-booking-app src/app/guards/auth-guard.spec.ts (4 tests) 22ms
 ✓ flight-booking-app src/app/services/flight.spec.ts (8 tests) 46ms
 ✓ flight-booking-app src/app/components/login/login.spec.ts (17 tests) 3111ms
     ✓ should create  538ms
 ✓ flight-booking-app src/app/components/register/register.spec.ts (23 tests) 4625ms
     ✓ should create  570ms
 ✓ flight-booking-app src/app/components/flight-search/flight-search.spec.ts (25 tests) 5938ms
     ✓ should create  657ms
     ✓ should initialize search form with default values  304ms
     ✓ should set travelDate to today by default  323ms
     ✓ should subscribe to currentUser on init  330ms
     ✓ should not search if form is invalid  320ms

 Test Files  8 passed (8)
      Tests  99 passed (99)
   Start at  00:40:47
   Duration  9.11s (transform 873ms, setup 2.55s, import 2.03s, tests 15.14s, environment 9.48s)

 % Coverage report from v8
```

```
 % Coverage report from v8
-------------------------------|---------|----------|---------|---------|-------------------------------------------
File                           | % Stmts | % Branch | % Funcs | % Lines | Uncovered Line #s
-------------------------------|---------|----------|---------|---------|-------------------------------------------
All files                      |    71.4 |    75.67 |   88.88 |   78.04 |
 app                           |     100 |    85.71 |     100 |     100 |
  app.html                     |     100 |      100 |     100 |     100 |
  app.ts                       |     100 |    85.71 |     100 |     100 | 10
 app/components/flight-search  |   54.54 |    61.53 |   83.33 |    60.4 |
  flight-search.html           |   45.45 |    41.17 |       0 |   49.13 | 45-46,65-66,83-84,94-98,107-185
  flight-search.ts             |     100 |      100 |     100 |     100 |
 app/components/home           |   98.38 |      100 |      80 |     100 |
  home.html                    |   98.11 |      100 |       0 |     100 |
  home.ts                      |     100 |      100 |     100 |     100 |
 app/components/login          |    80.8 |       76 |   85.71 |   84.28 |
  login.html                   |      75 |       50 |       0 |   76.59 | 29-30,48-49,53-54,59-63
  login.ts                     |     100 |      100 |     100 |     100 |
 app/components/register       |   69.36 |       75 |    87.5 |    82.3 |
  register.html                |   63.19 |       50 |       0 |   76.74 | 51-54,72-74,92-94,112-114,118-119,124-128
  register.ts                  |     100 |      100 |     100 |     100 |
 app/guards                    |     100 |      100 |     100 |     100 |
  auth-guard.ts                |     100 |      100 |     100 |     100 |
 app/services                  |     100 |    83.33 |     100 |     100 |
  auth.ts                      |     100 |       80 |     100 |     100 | 30-47
  flight.ts                    |     100 |      100 |     100 |     100 |
-------------------------------|---------|----------|---------|---------|-------------------------------------------
PASS  Waiting for file changes...
```

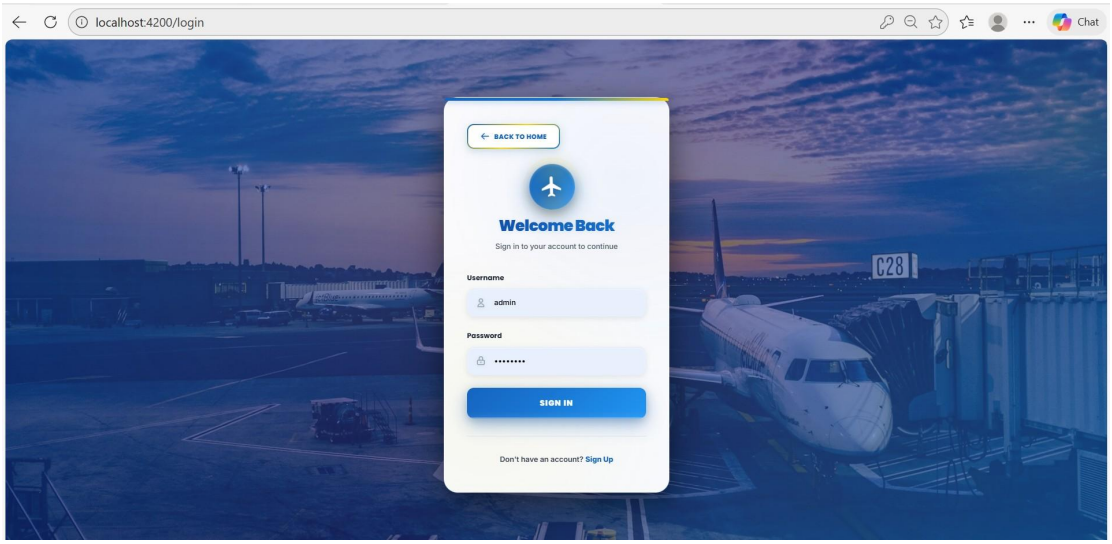
TEST RUN WITH UI



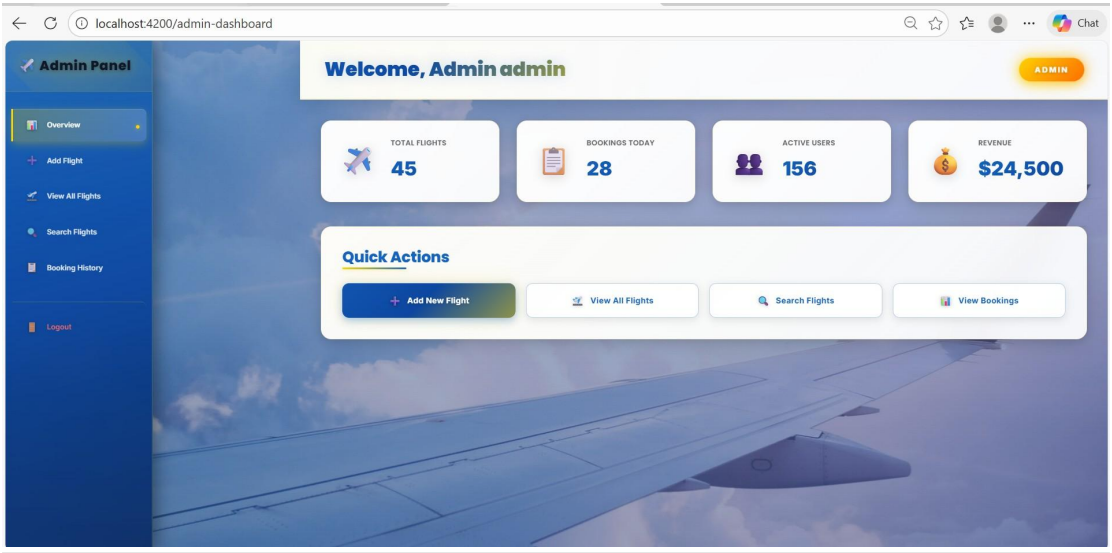
HOME PAGE



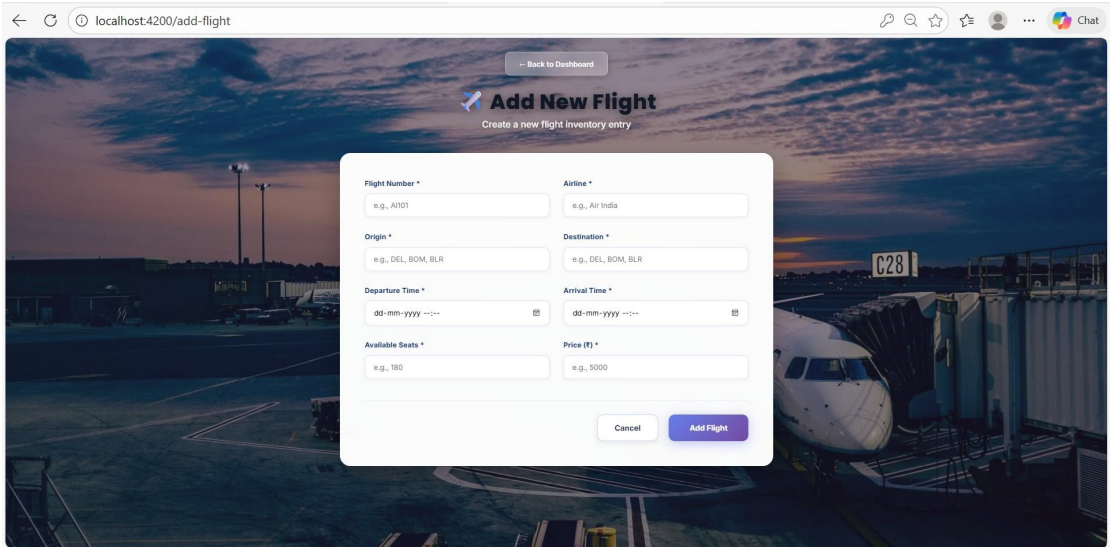
ADMIN LOGIN



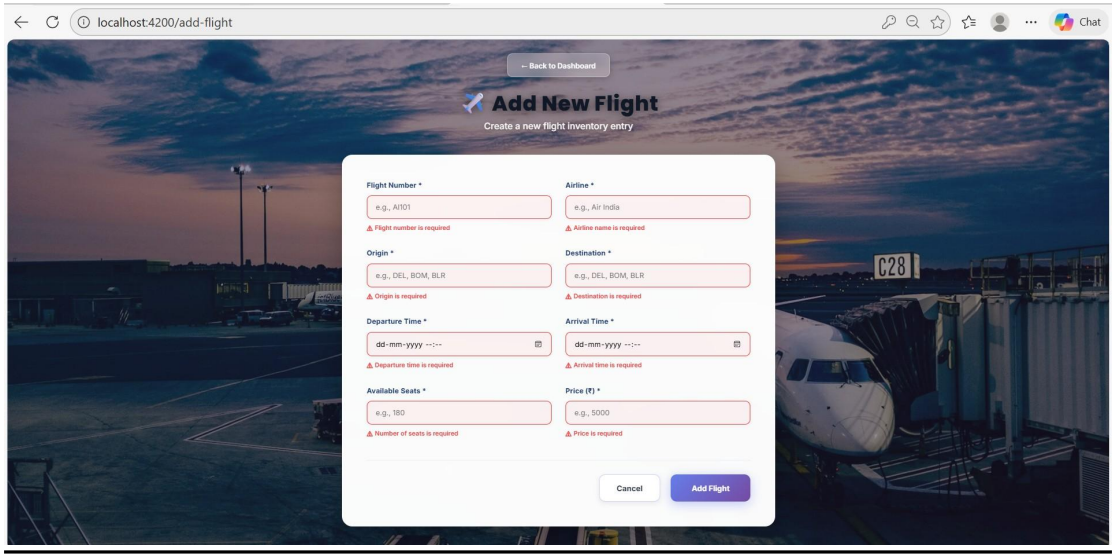
ADMIN DASHBOARD



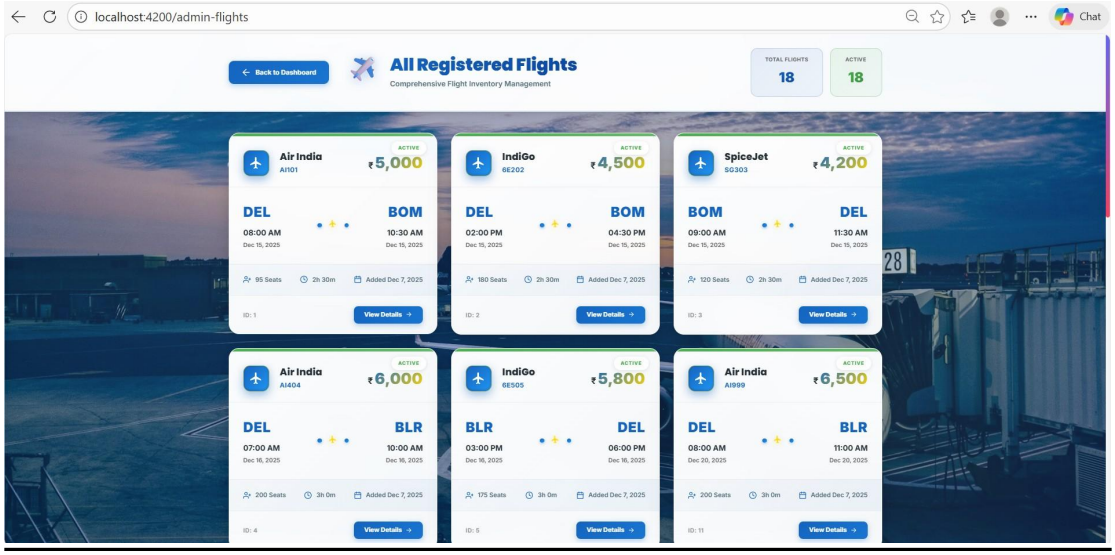
ADD FLIGHT ADMIN FEATURE



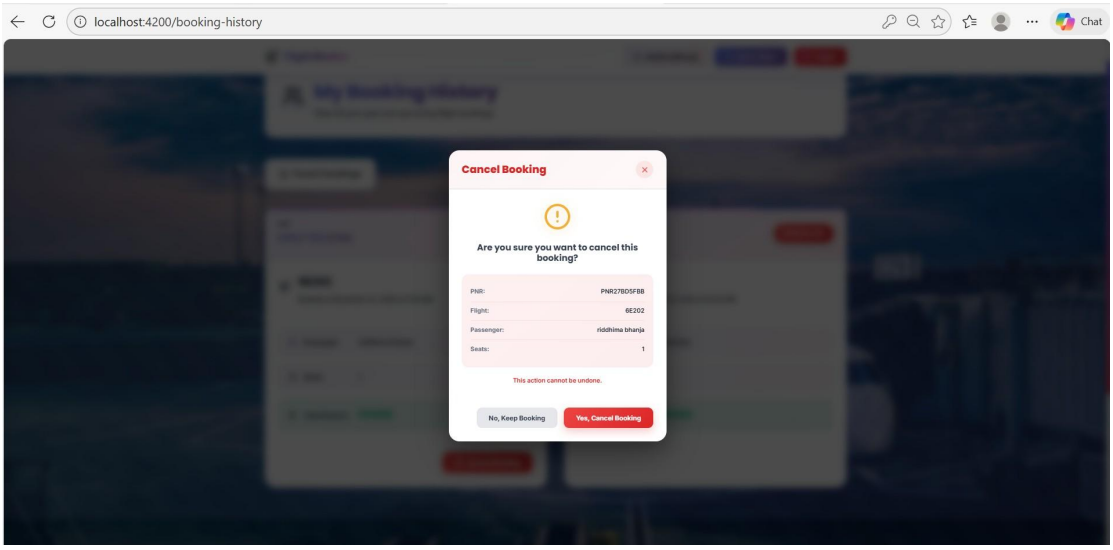
ADD FLIGHT VALIDATION ERROR



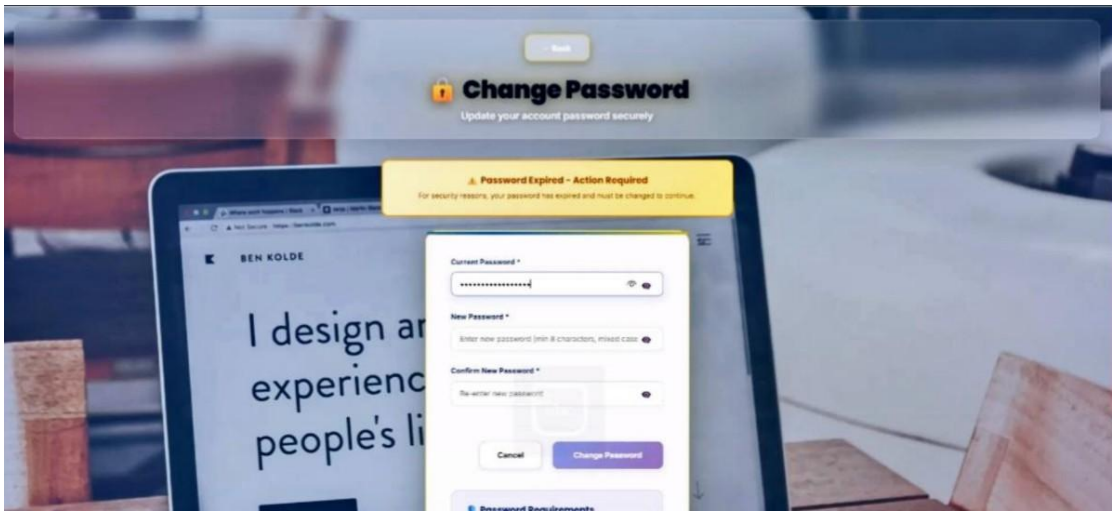
ALL ADDED FLIGHTS



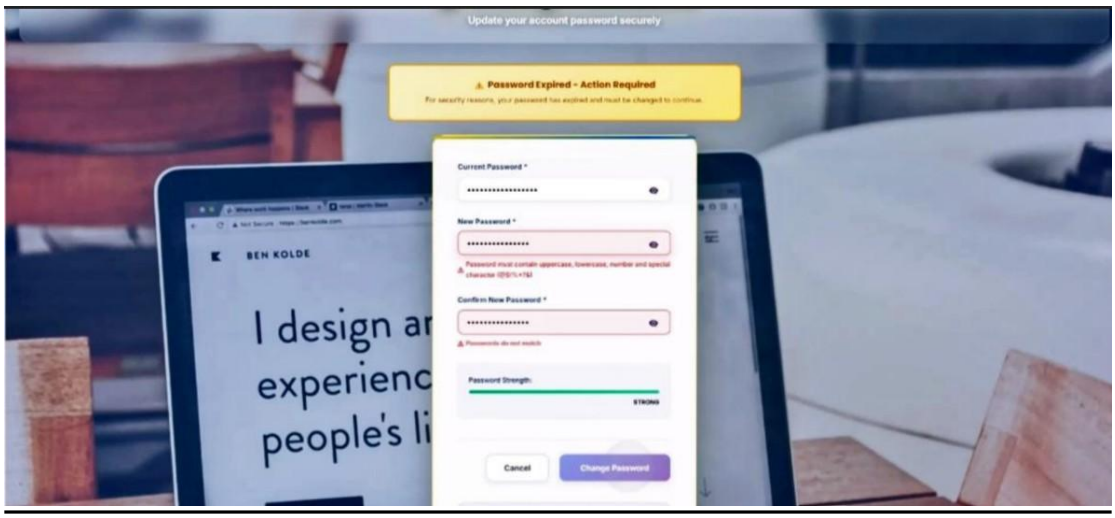
CANCEL BOOKING



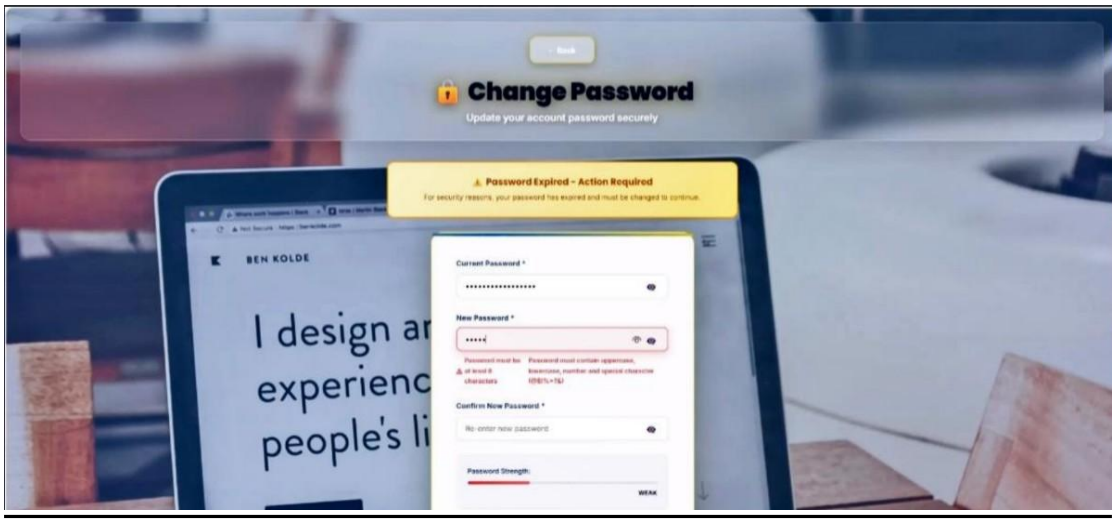
PASSWORD EXPIRATION ALERT



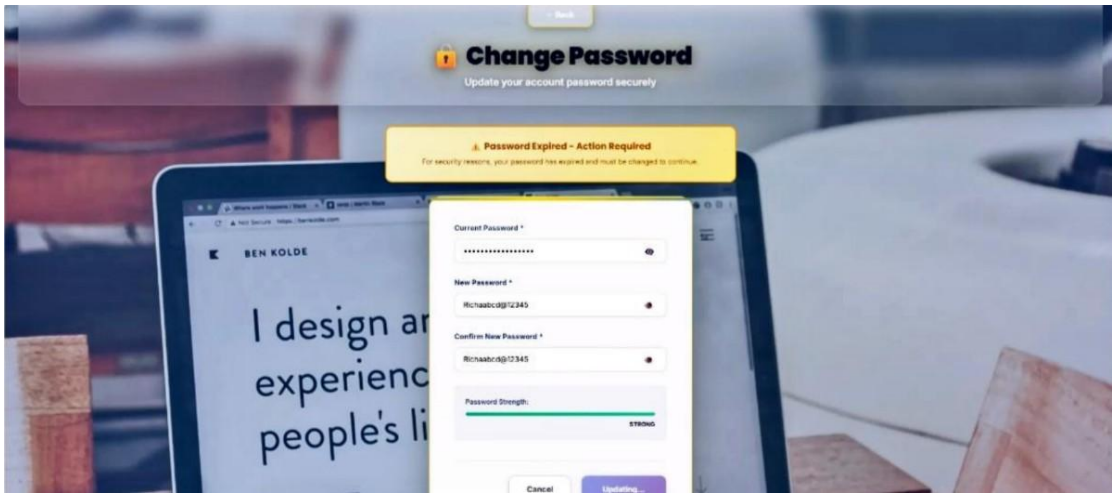
PASSWORD EXPIRY VALIDATION



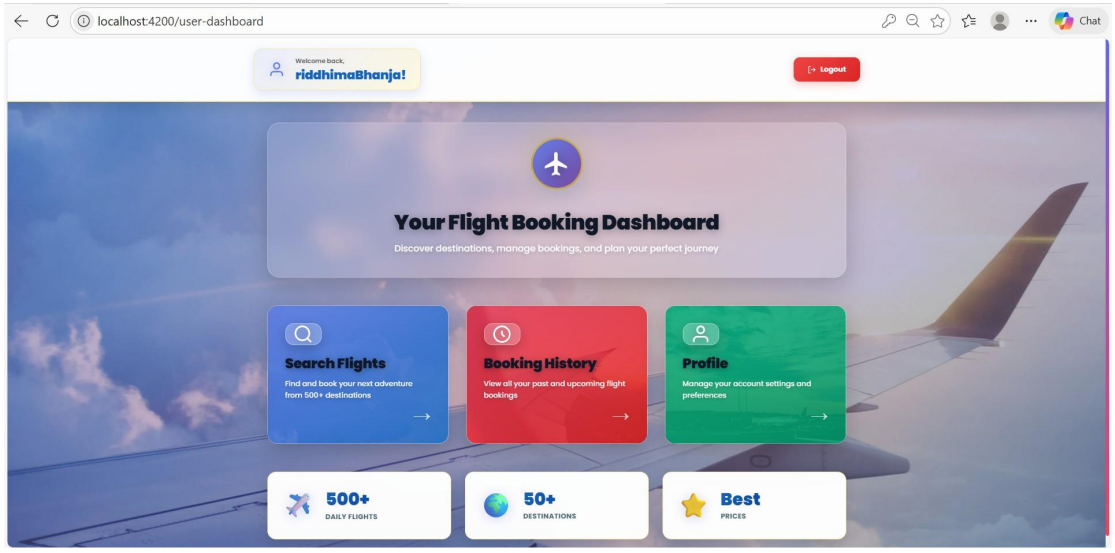
PASSWORD EXPIRY VALIDATION-2



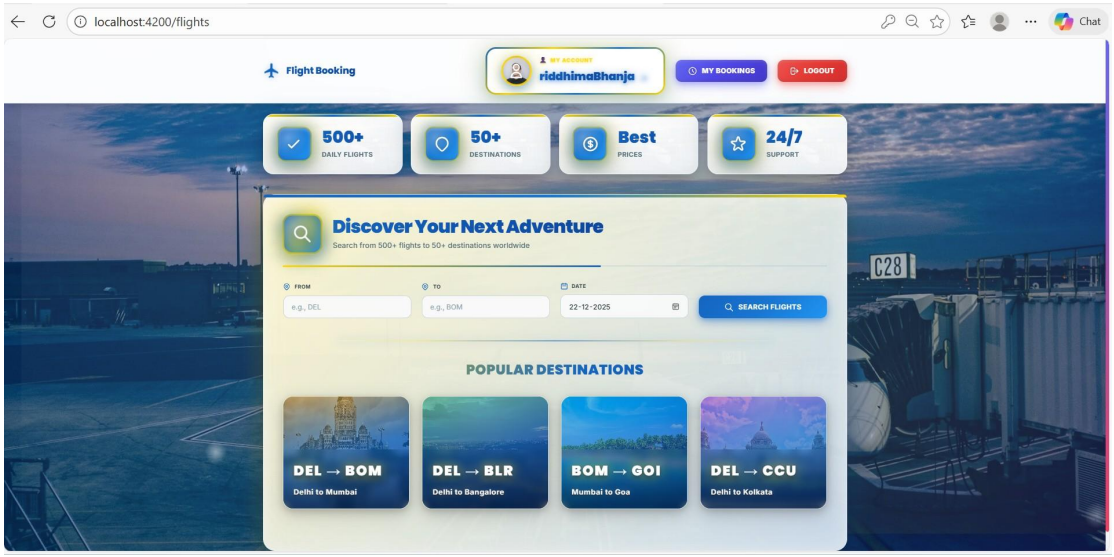
CHANGE PASSWORD SUCCESS



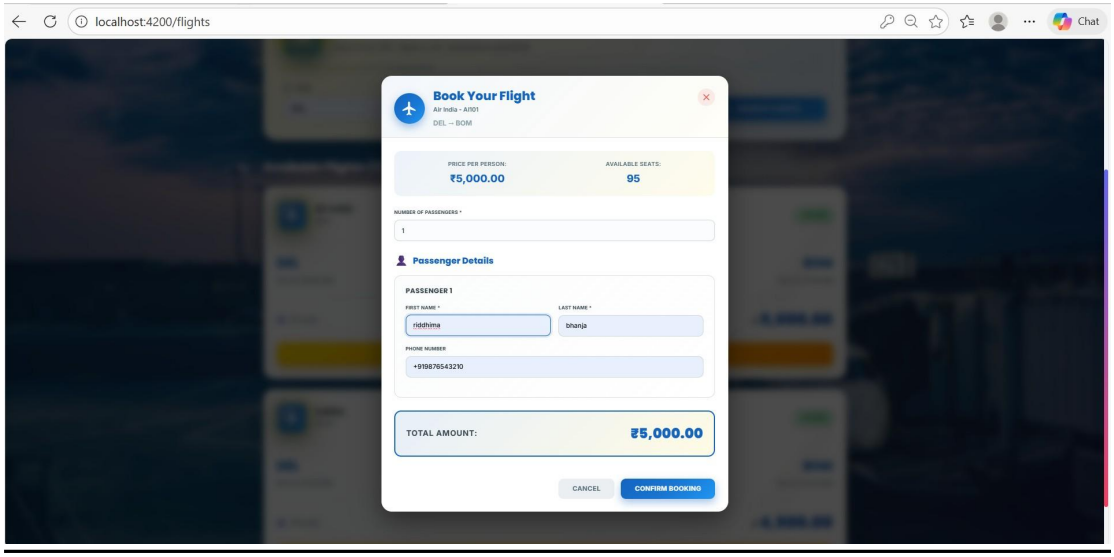
USER DASHBOARD



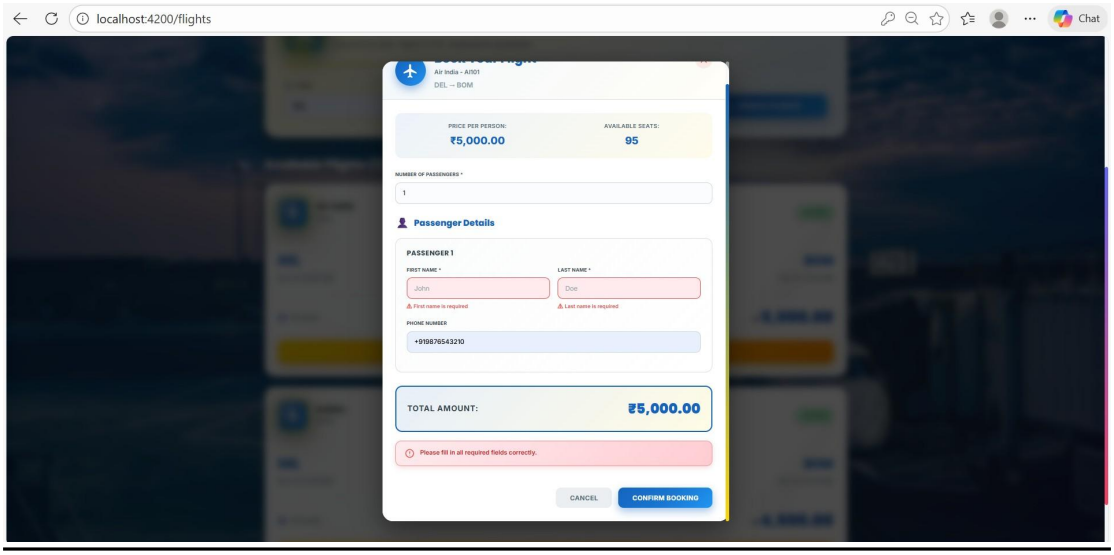
SEARCH FLIGHT



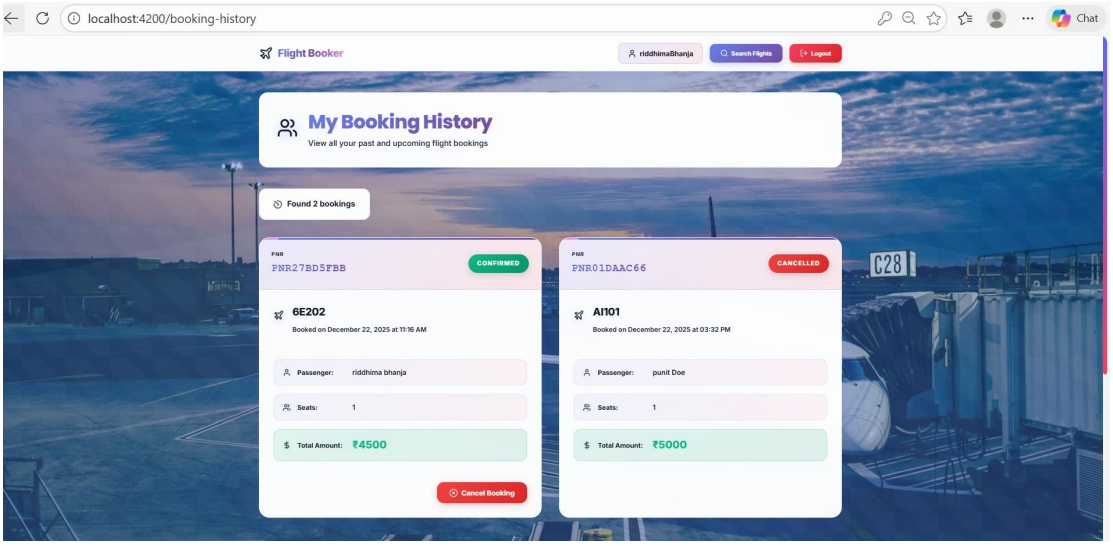
BOOK FLIGHT



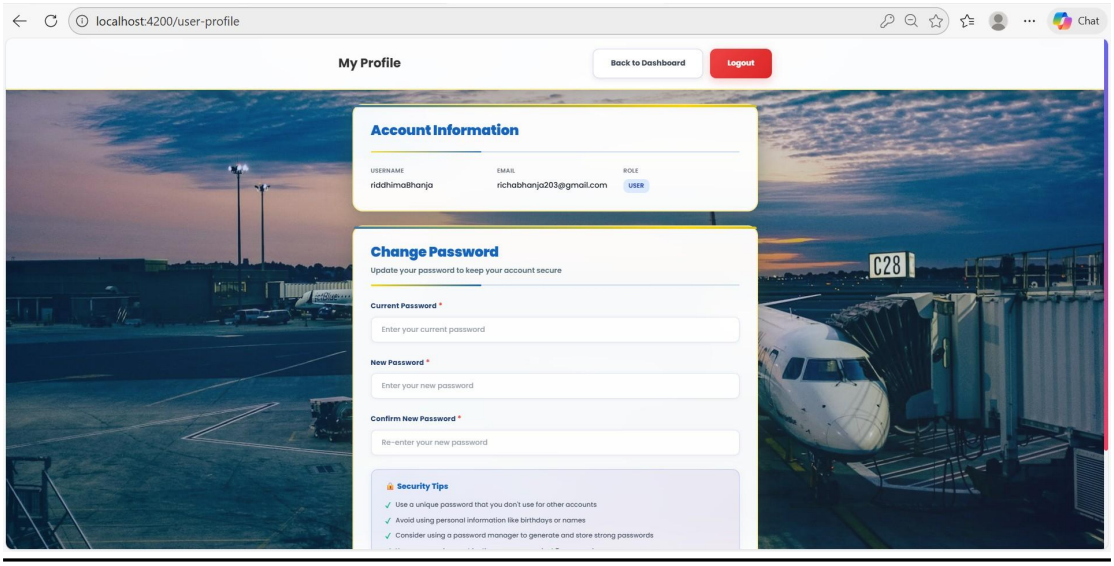
BOOK FLIGHT VALIDATION ERROR



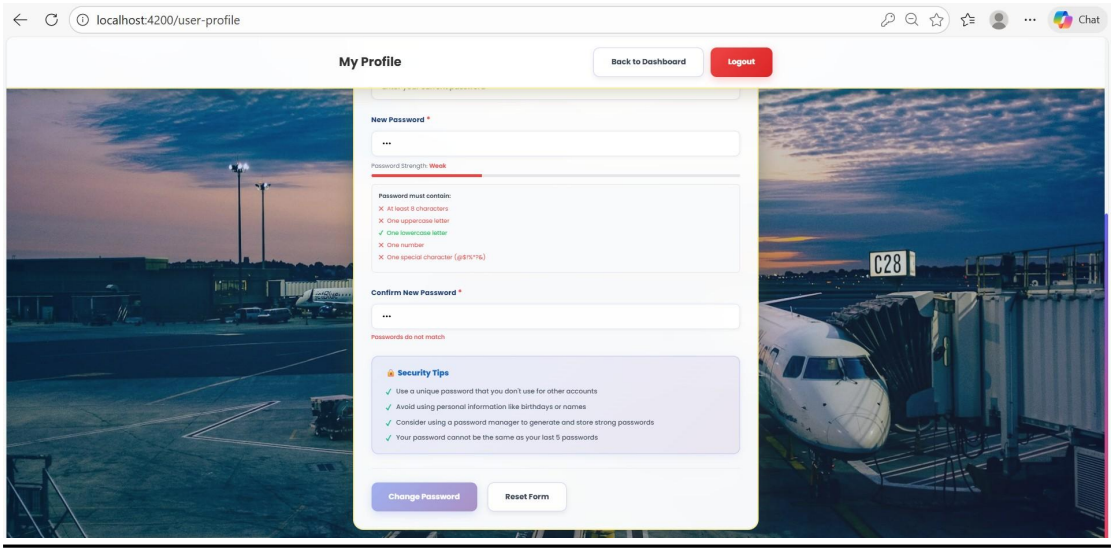
BOOKING HISTORY



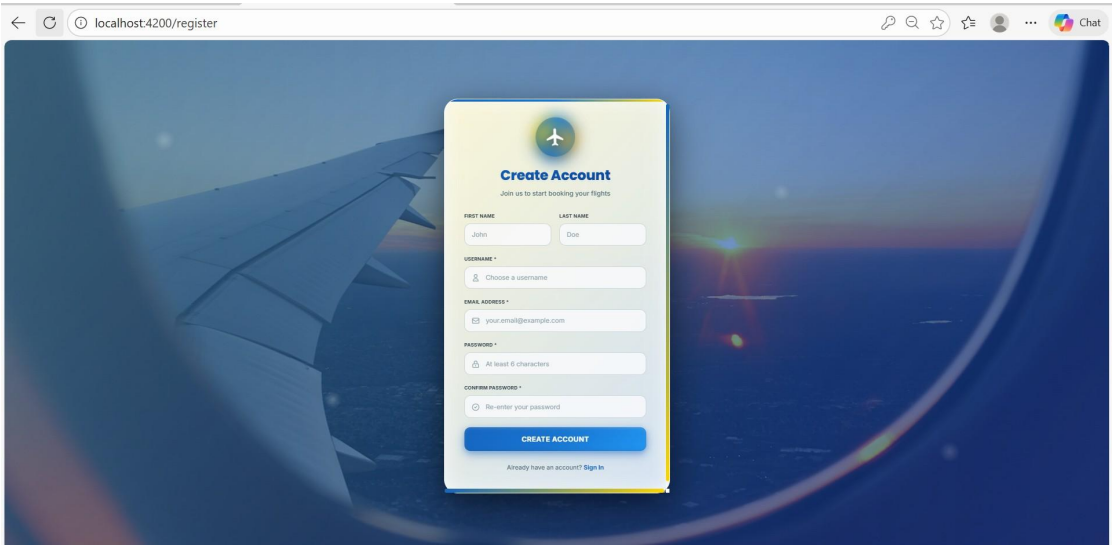
CHANGE PASSWORD FOR USER



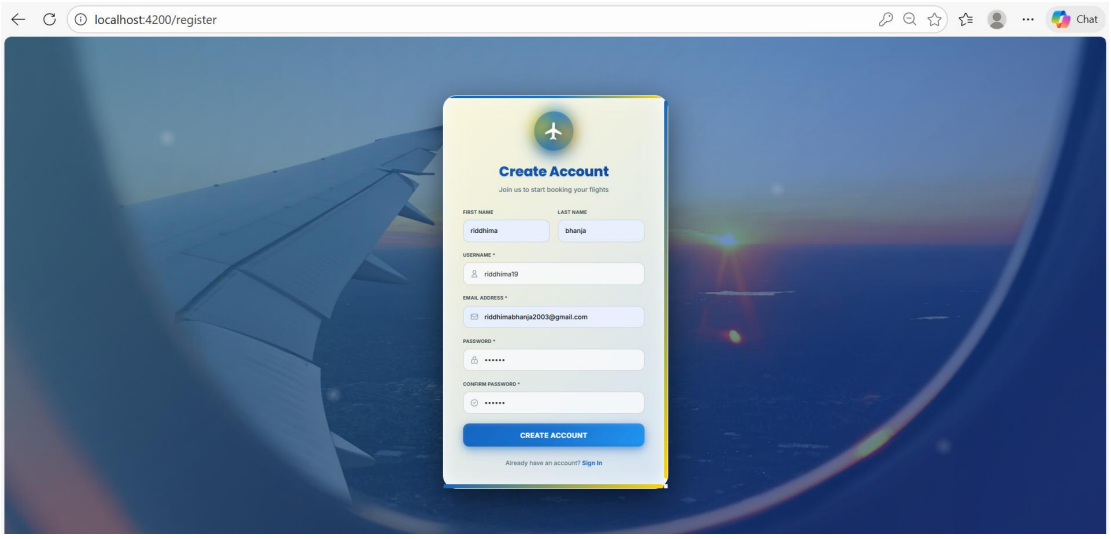
CHANGE PASSWORD VALIDATION ERROR



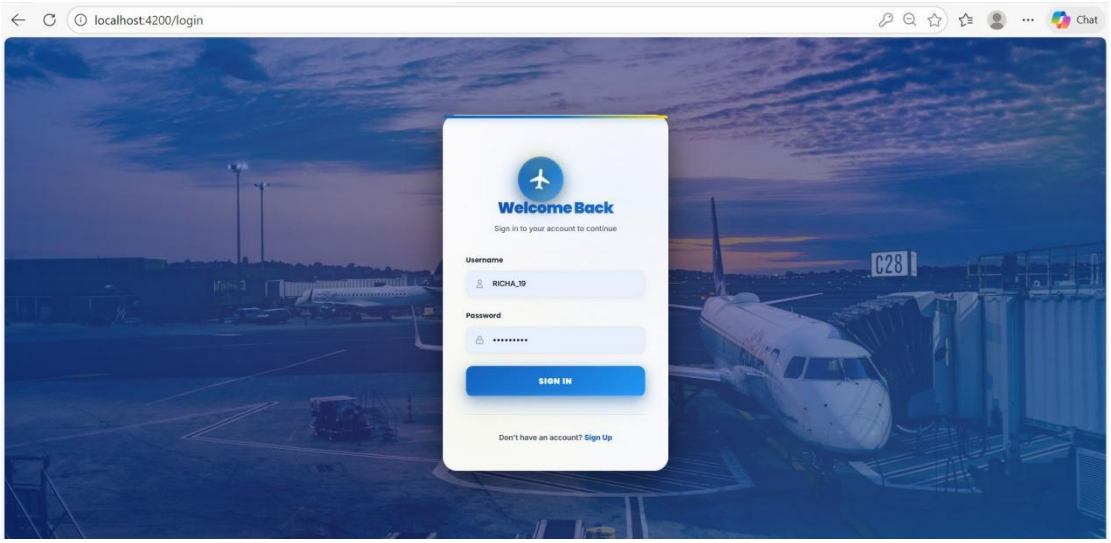
CLEAN REGISTER PAGE



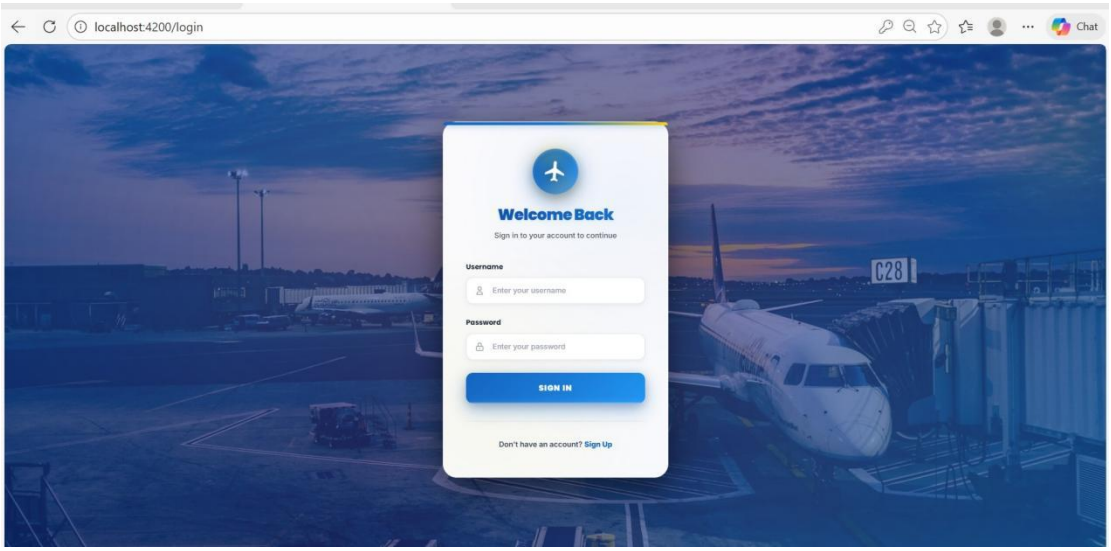
REGISTER PAGE(ACCOUNT CREATION)



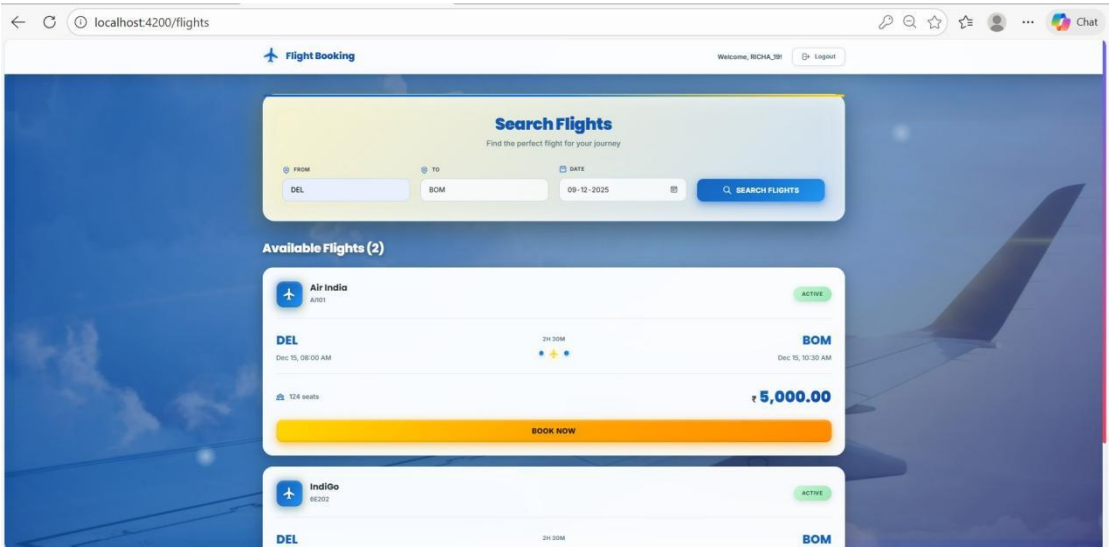
LOGIN PAGE



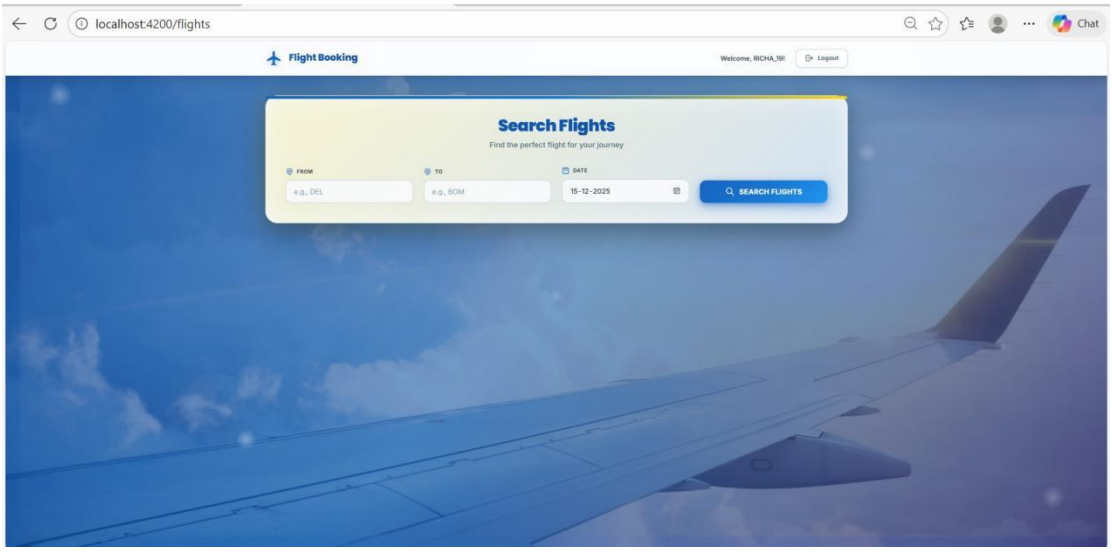
CLEAN LOGIN PAGE



SEARCH FLIGHTS

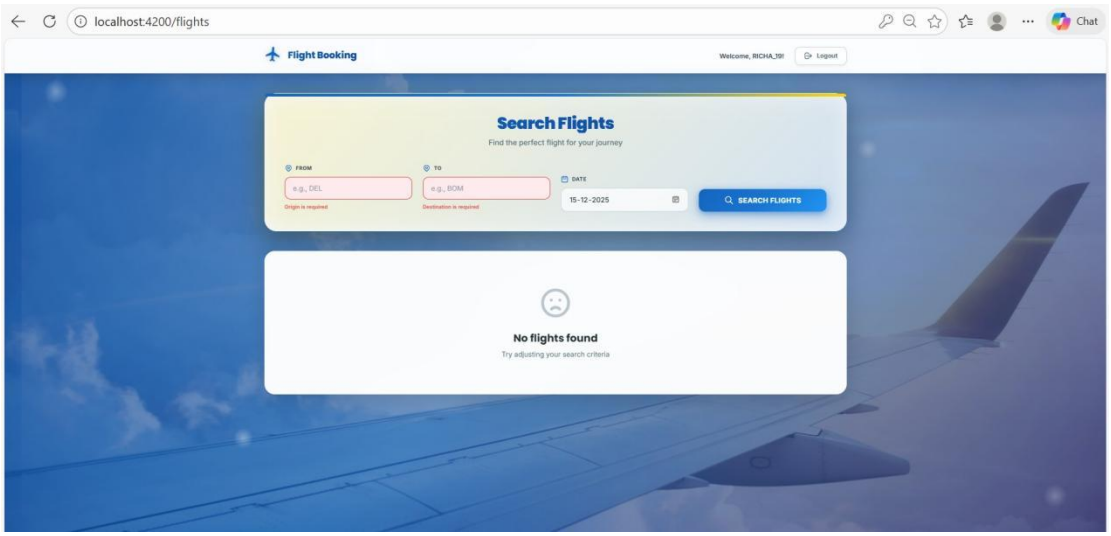


CLEAN SEARCH FLIGHTS

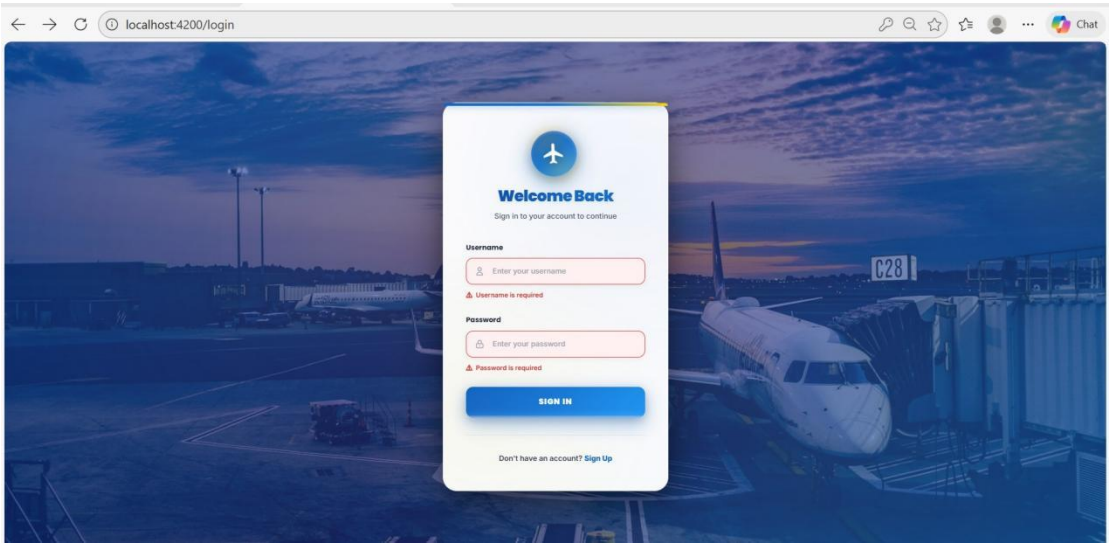


VALIDATION ERRORS

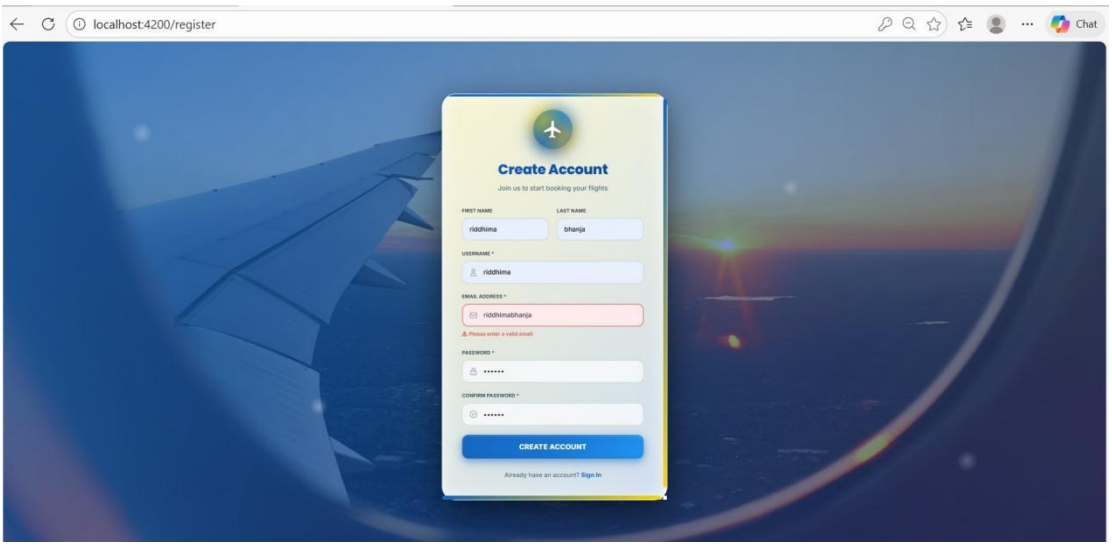
SEARCH FLIGHT VALIDATION ERROR



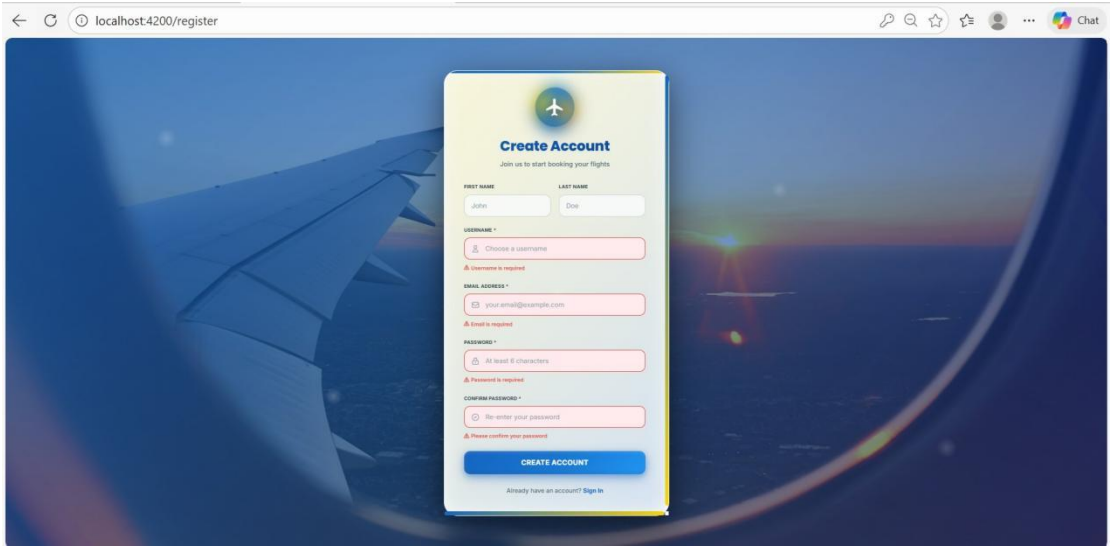
LOGIN VALIDATION ERROR



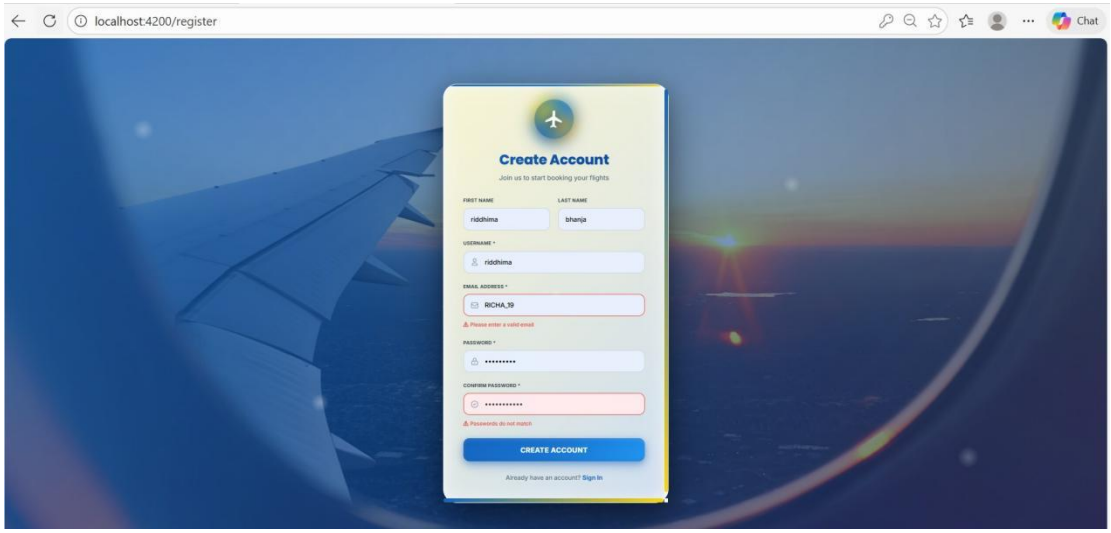
EMAIL VALIDATION ERROR



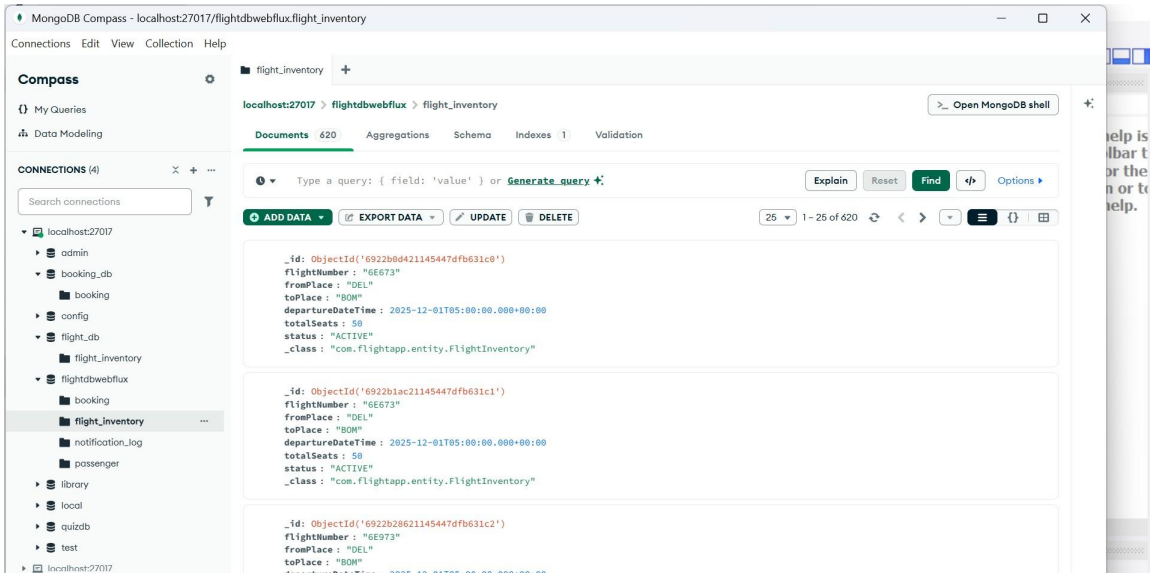
REGISTRATION VALIDATION ERROR



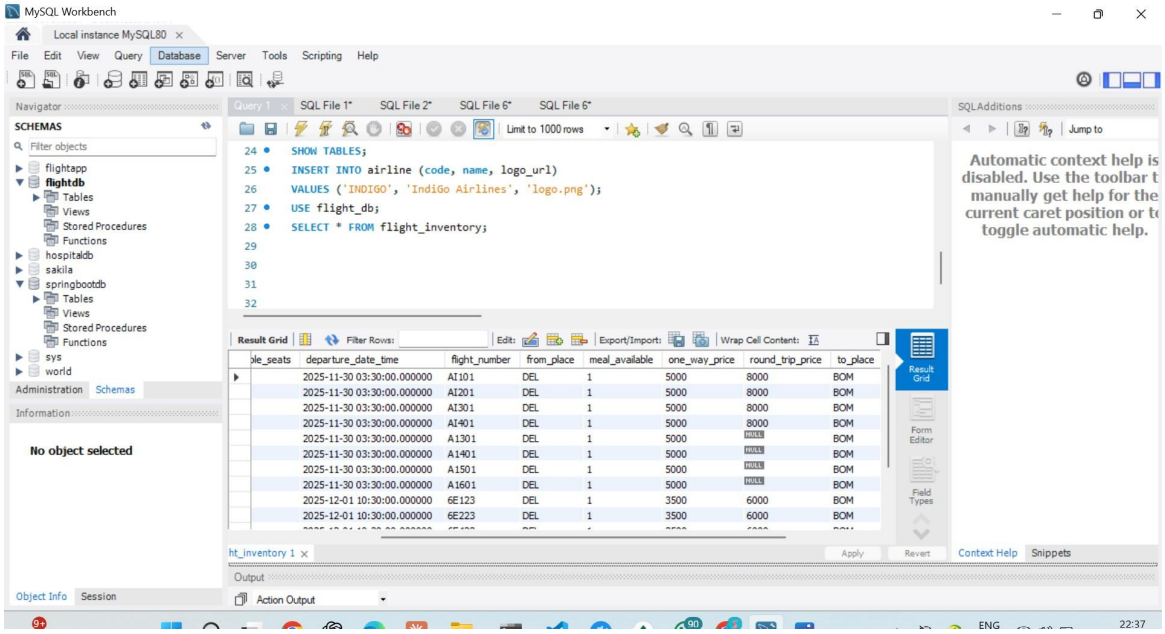
PASSWORD MISMATCH ERROR



MONGODB DATA



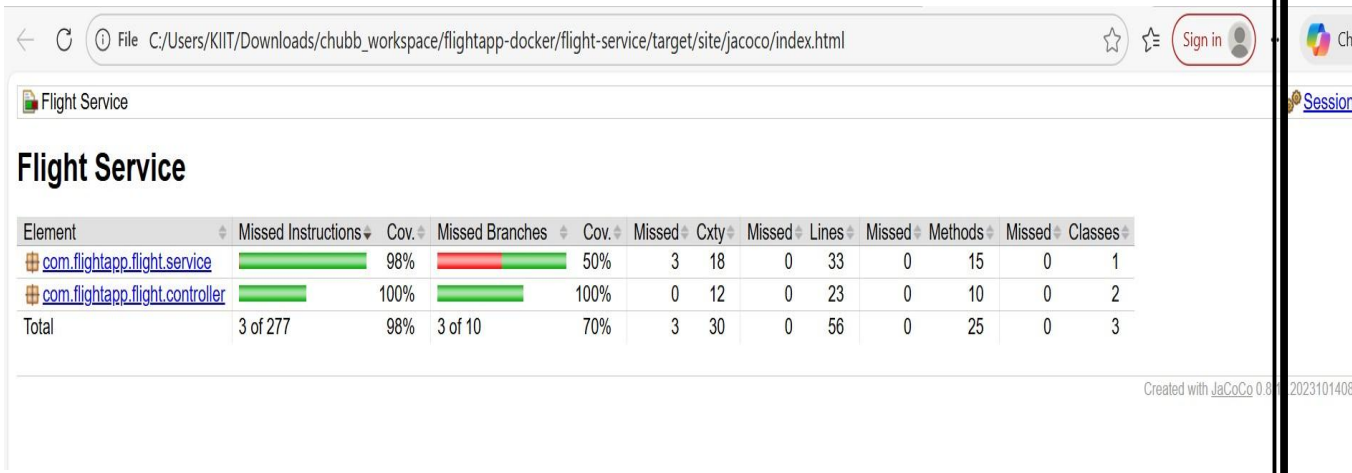
MYSQL WORKBENCH



JACOCO REPORTS

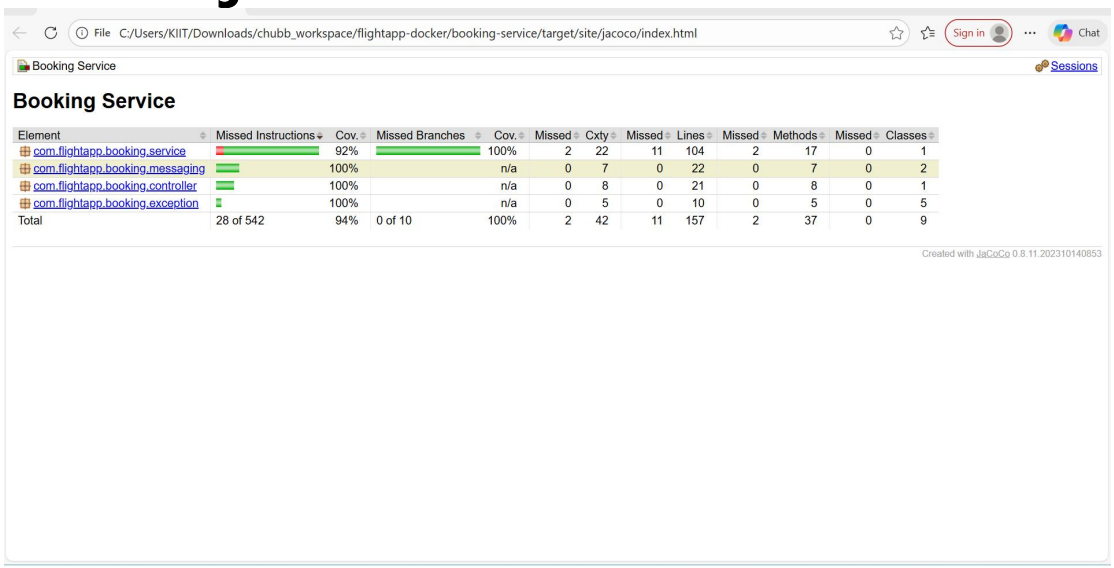
FLIGHT SERVICE:

98% COVERAGE

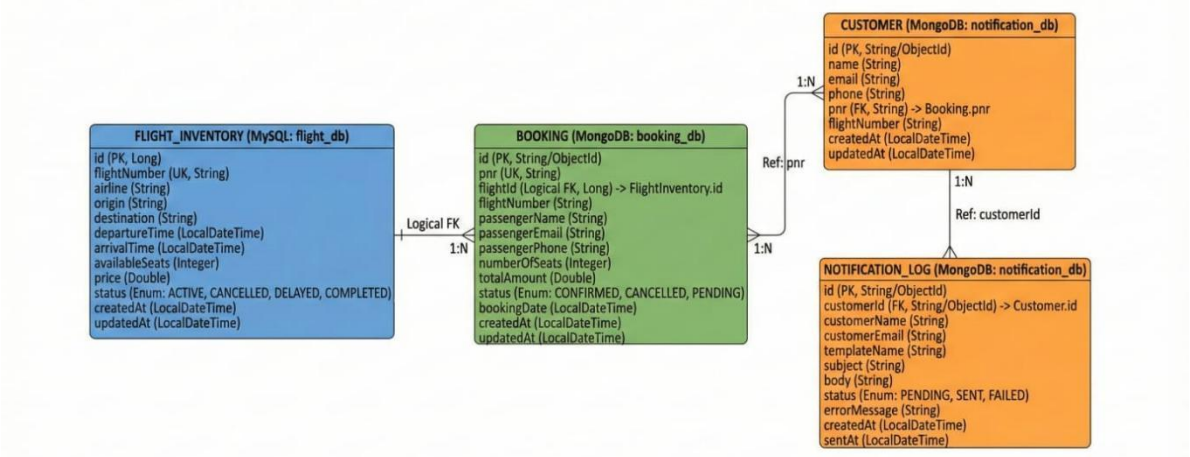


BOOKING SERVICE

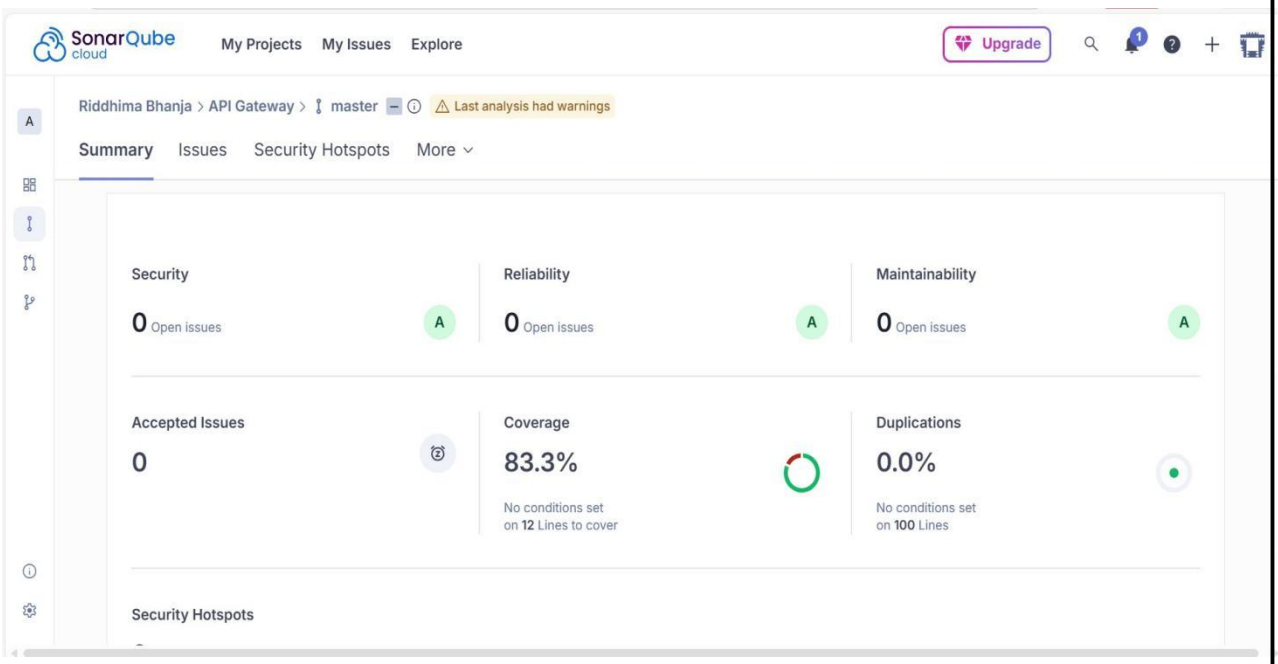
94% coverage



ER DIAGRAM

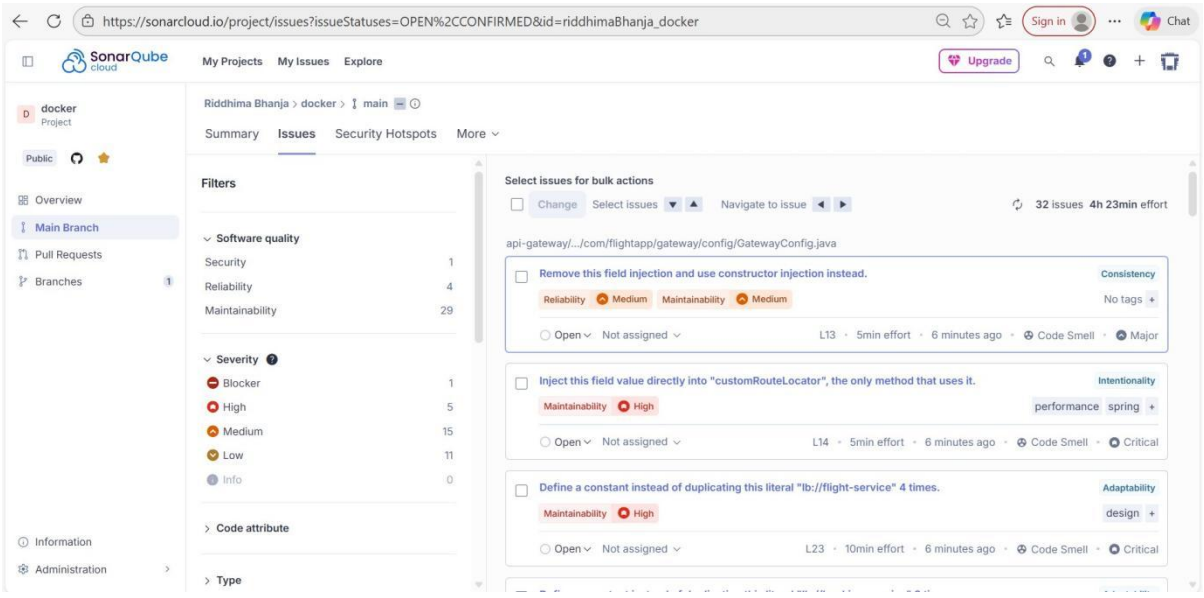


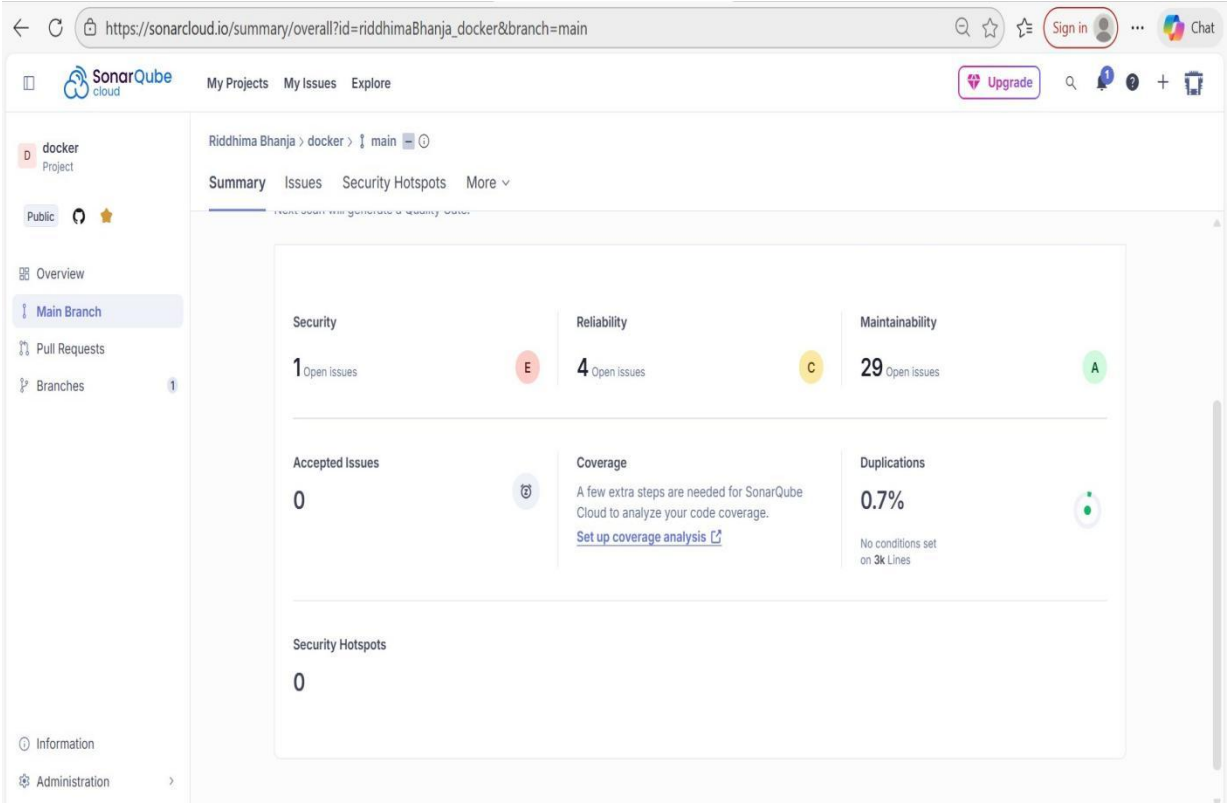
1. SonarQUBE Code Coverage



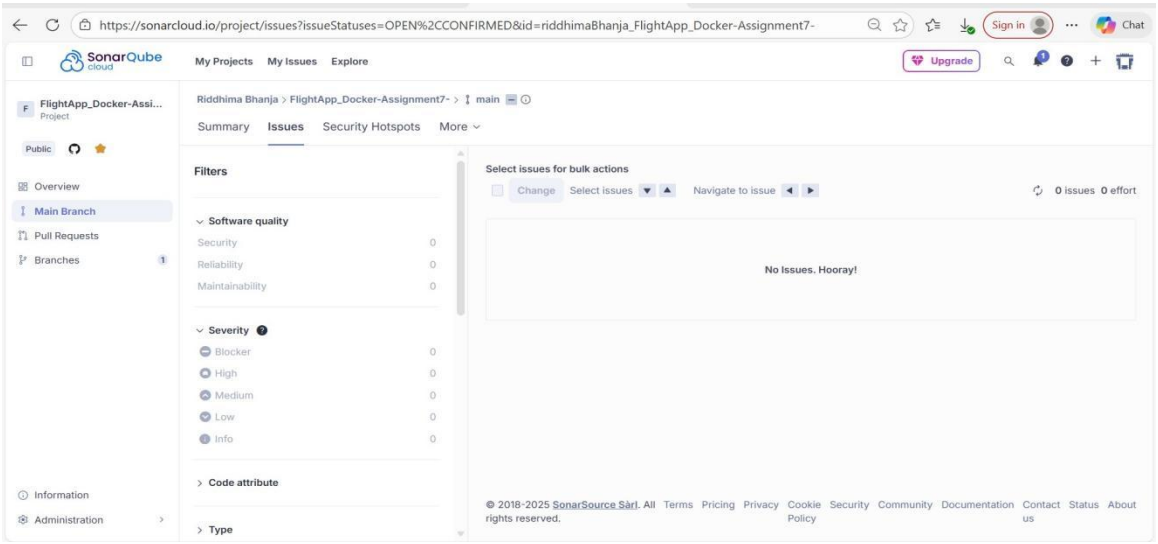
2. SonarQube Issues

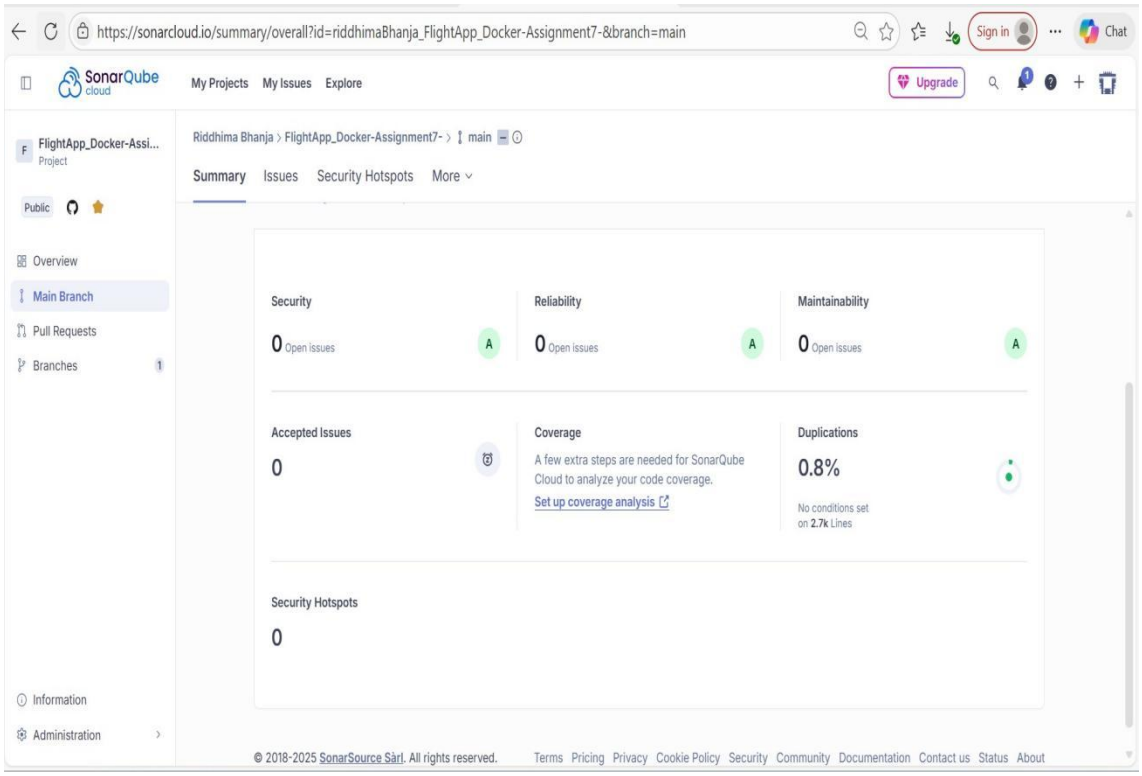
Before fixing:



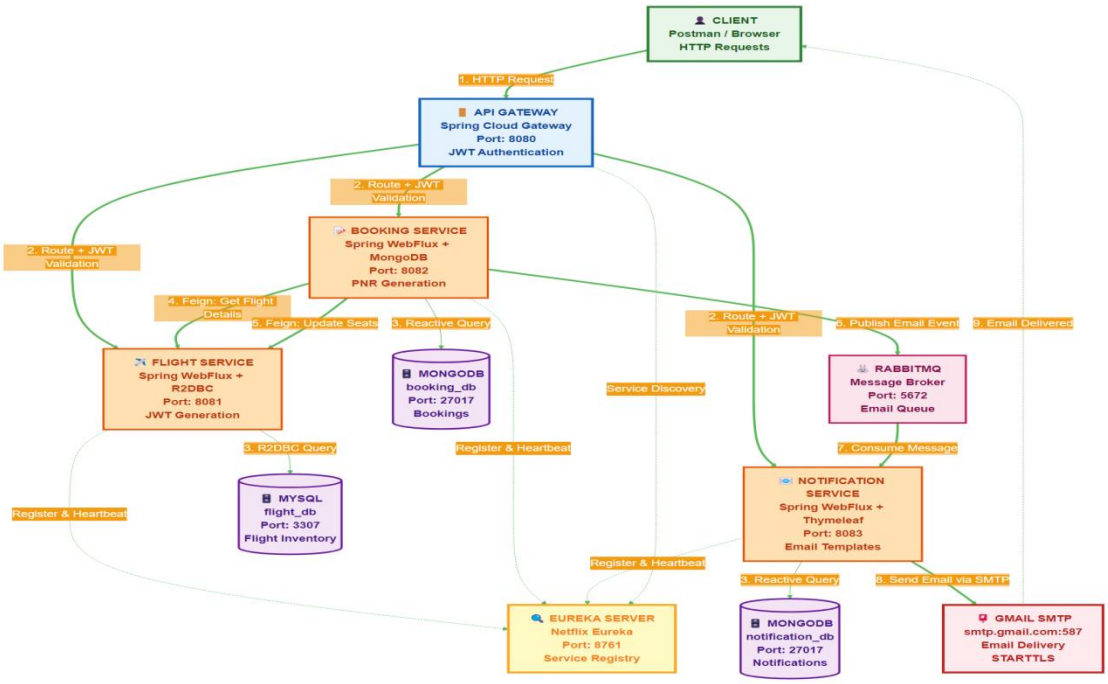


After fixing:



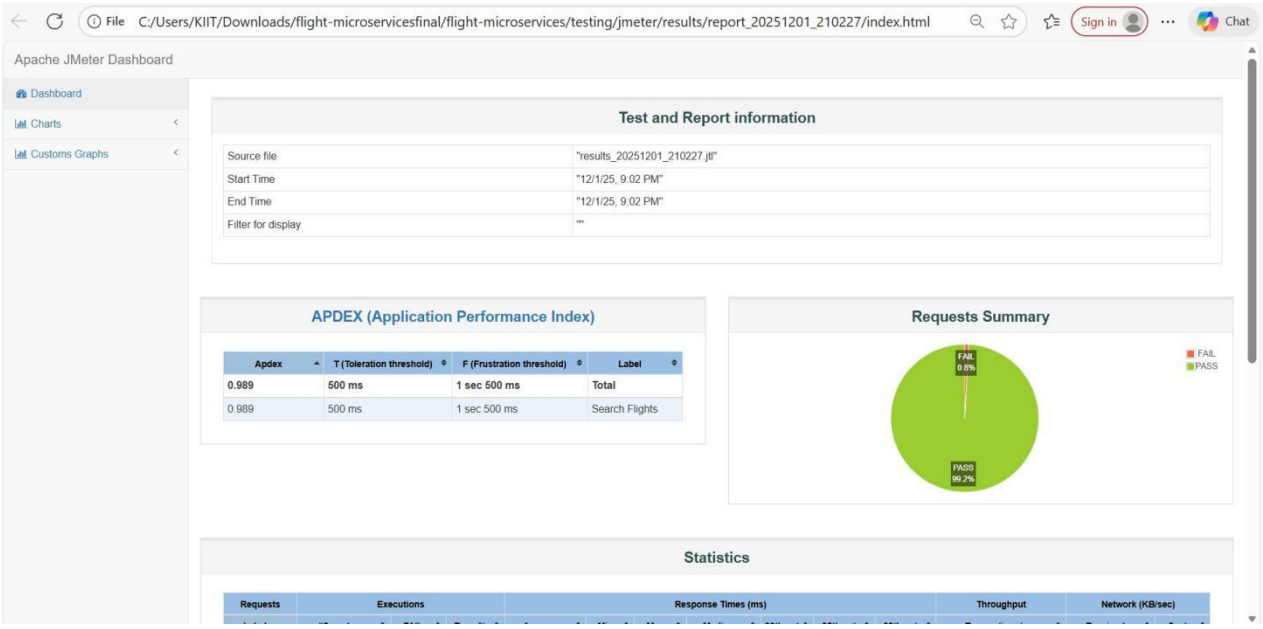


3. System Architecture



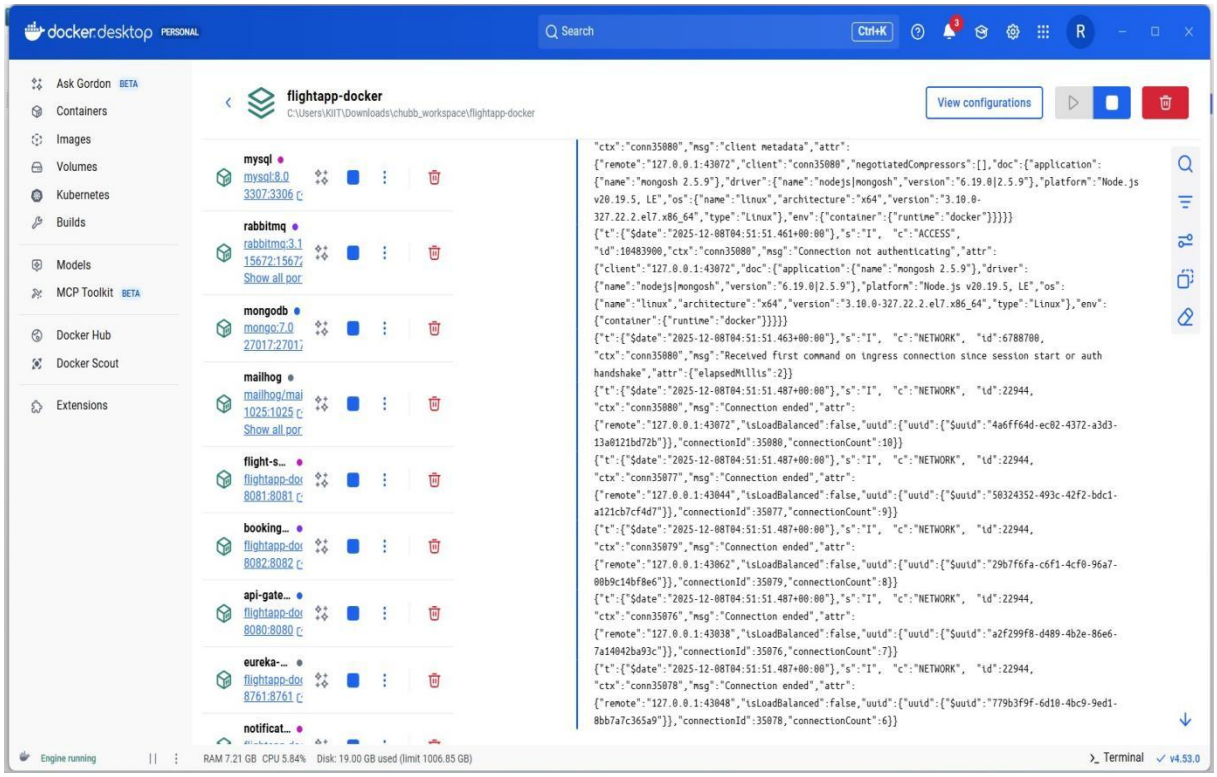
4. Jmeter

- Apache Jmeter Dashboard

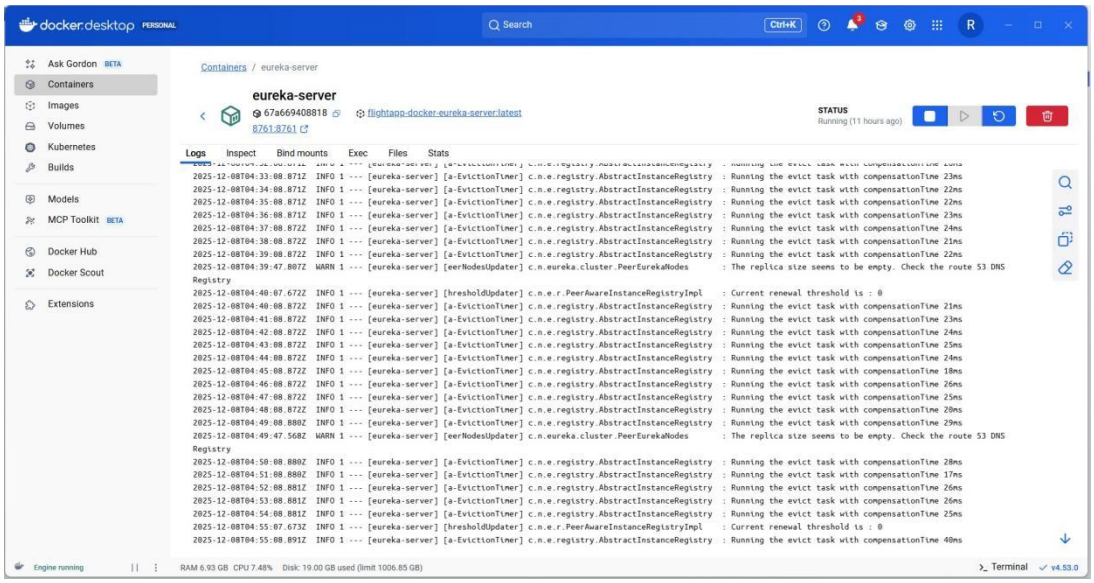


LOGS SCREENSHOTS

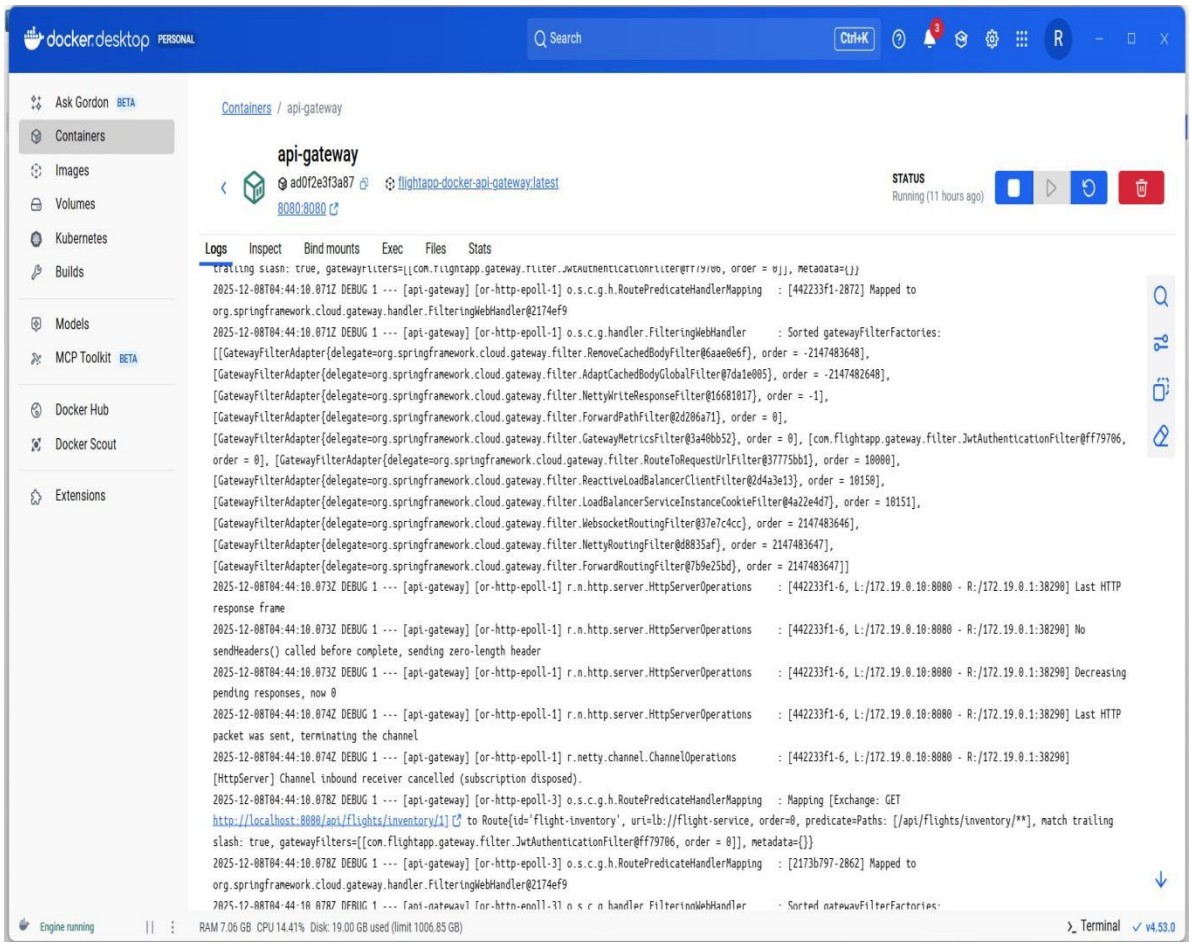
DASHBOARD



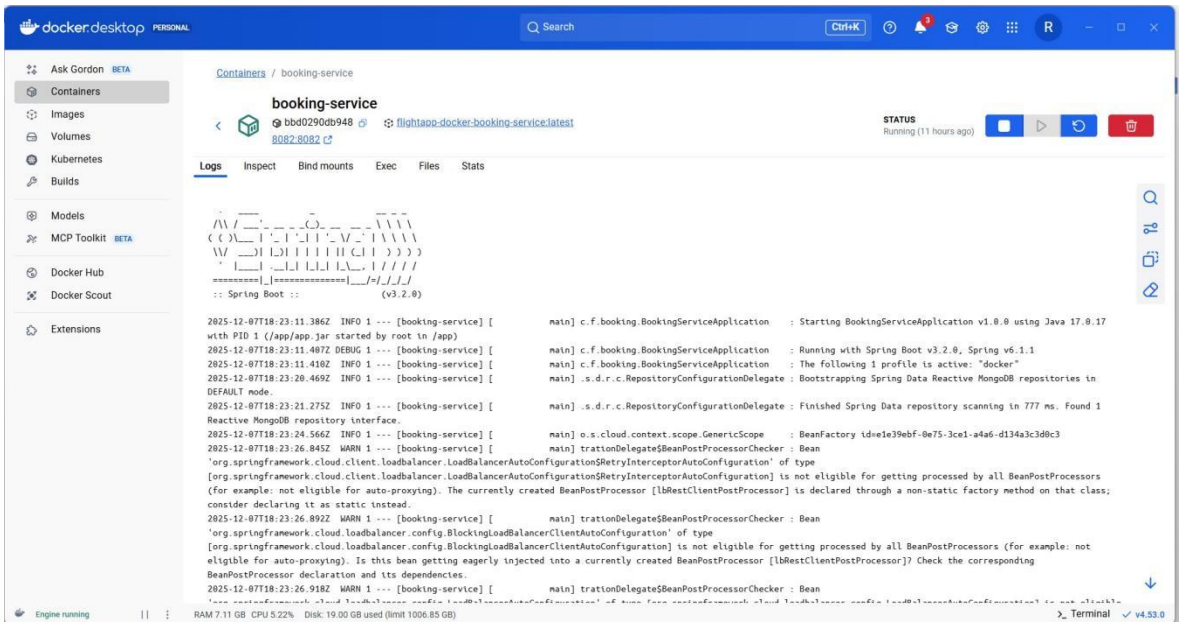
EUREKA SERVER LOGS



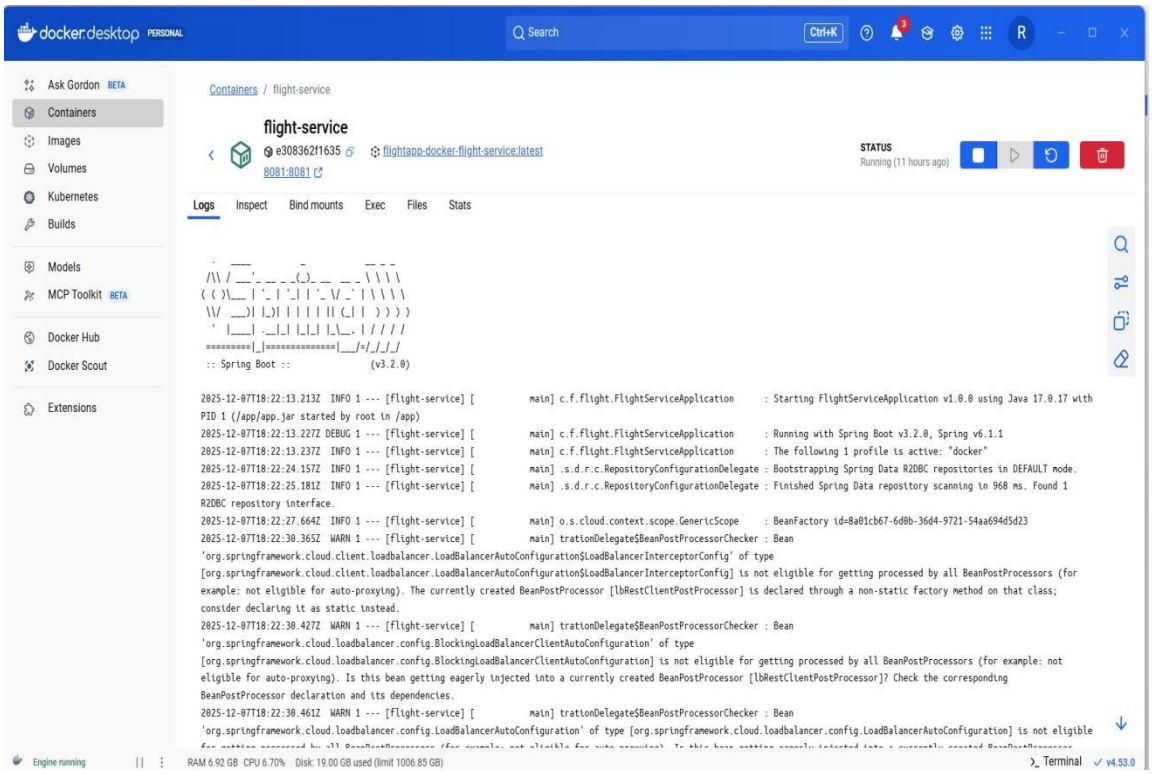
API GATEWAY



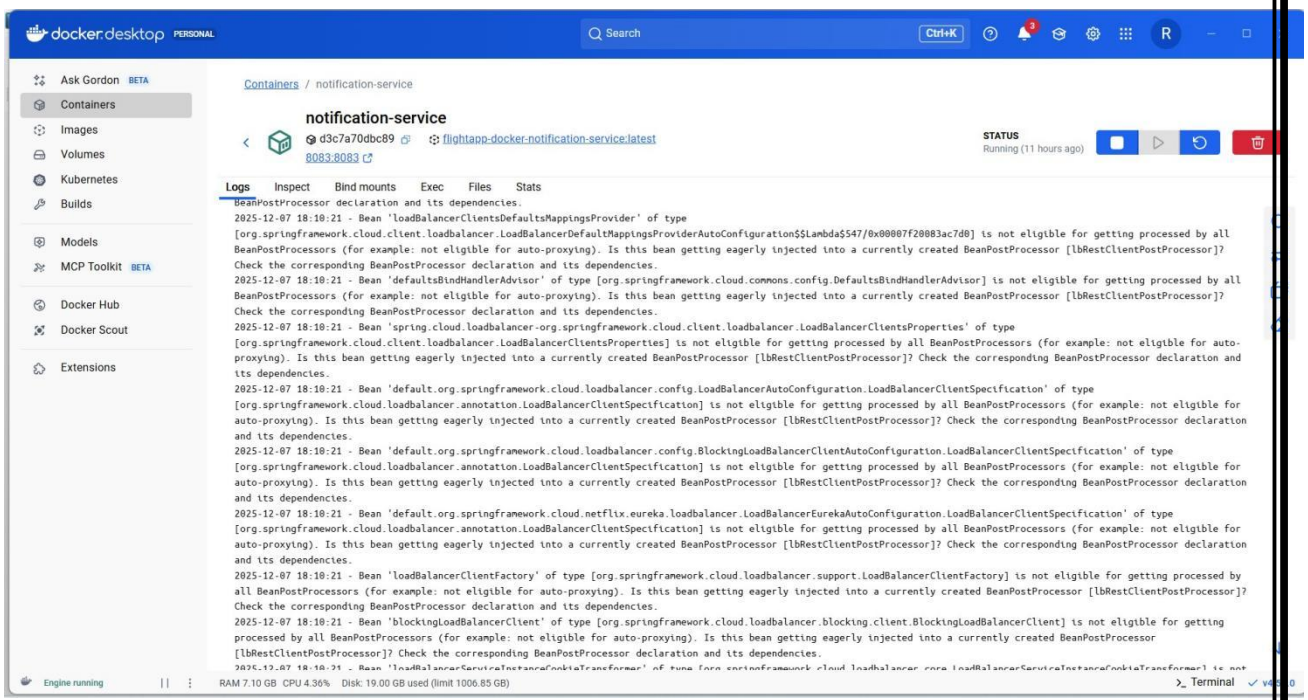
BOOKING SERVICE LOGS



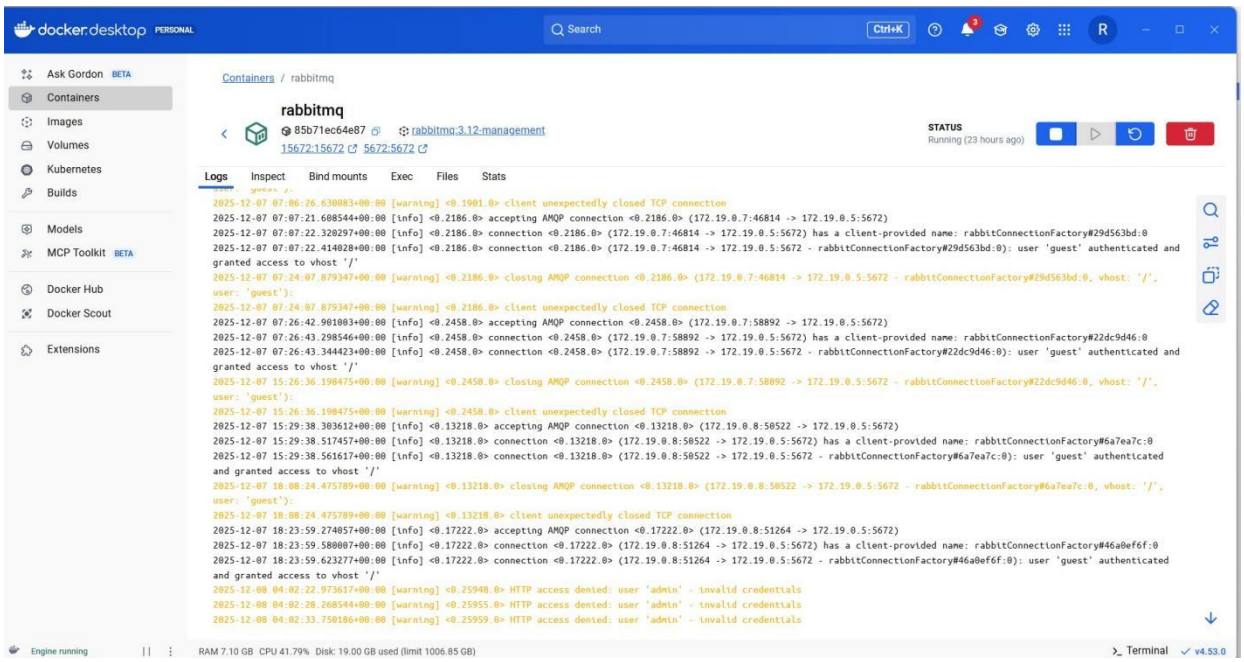
FLIGHT SERVICE LOGS



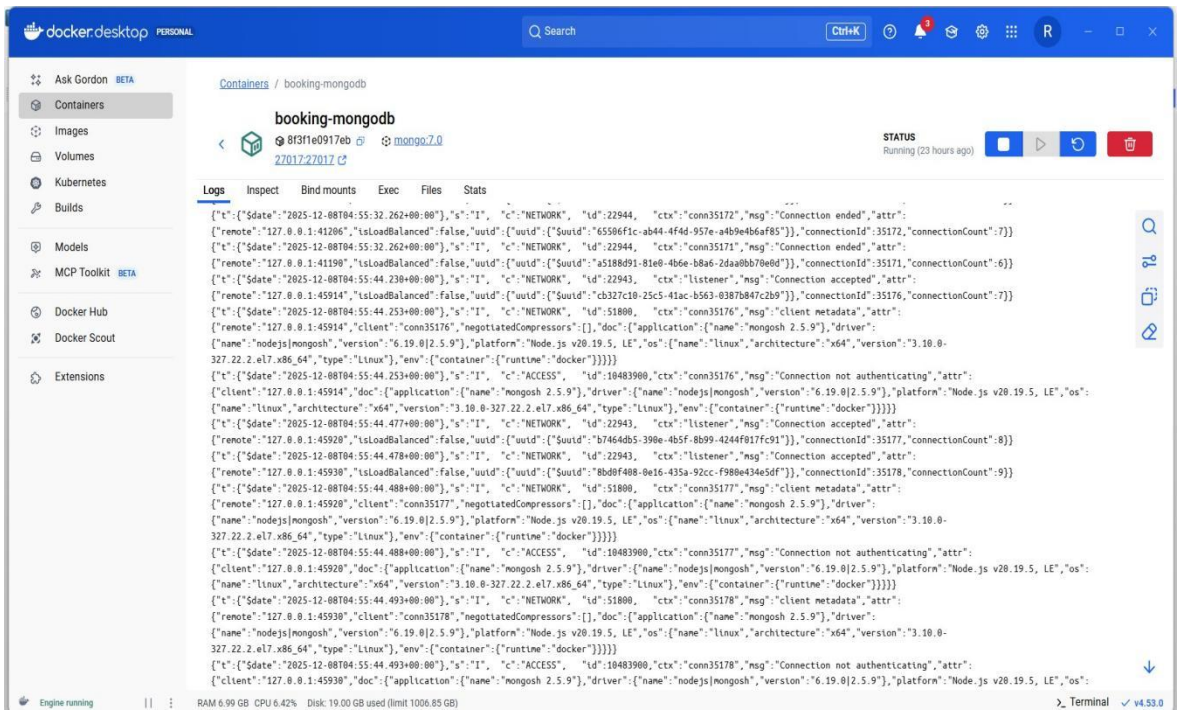
NOTIFICATION SERVICE LOGS



RabbitMQ logs

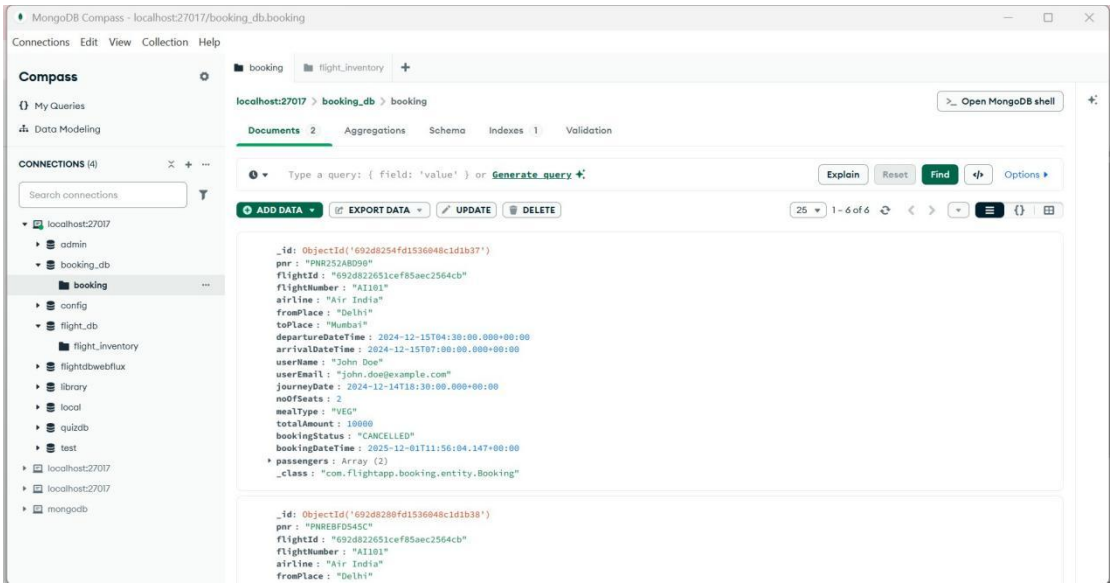


Mongodb logs

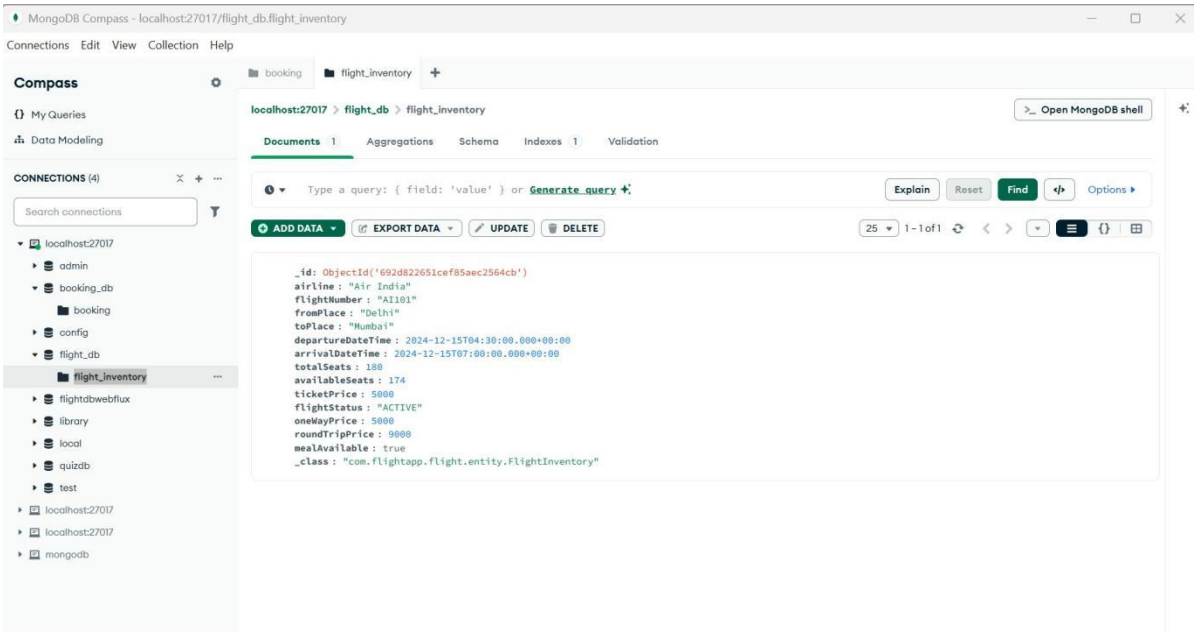


5.Mongodb screenshots

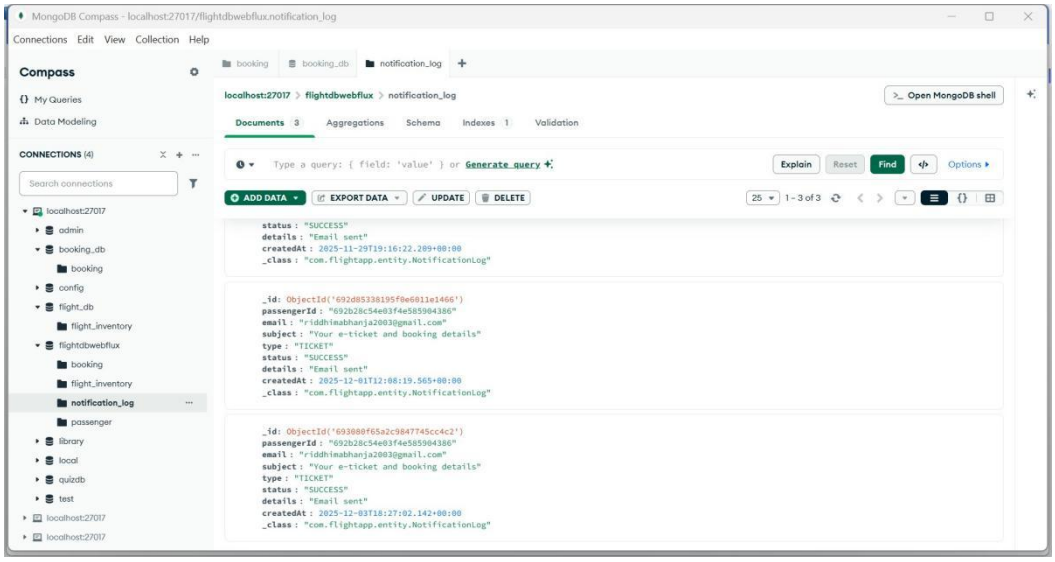
- Booking_db



- Flight_db

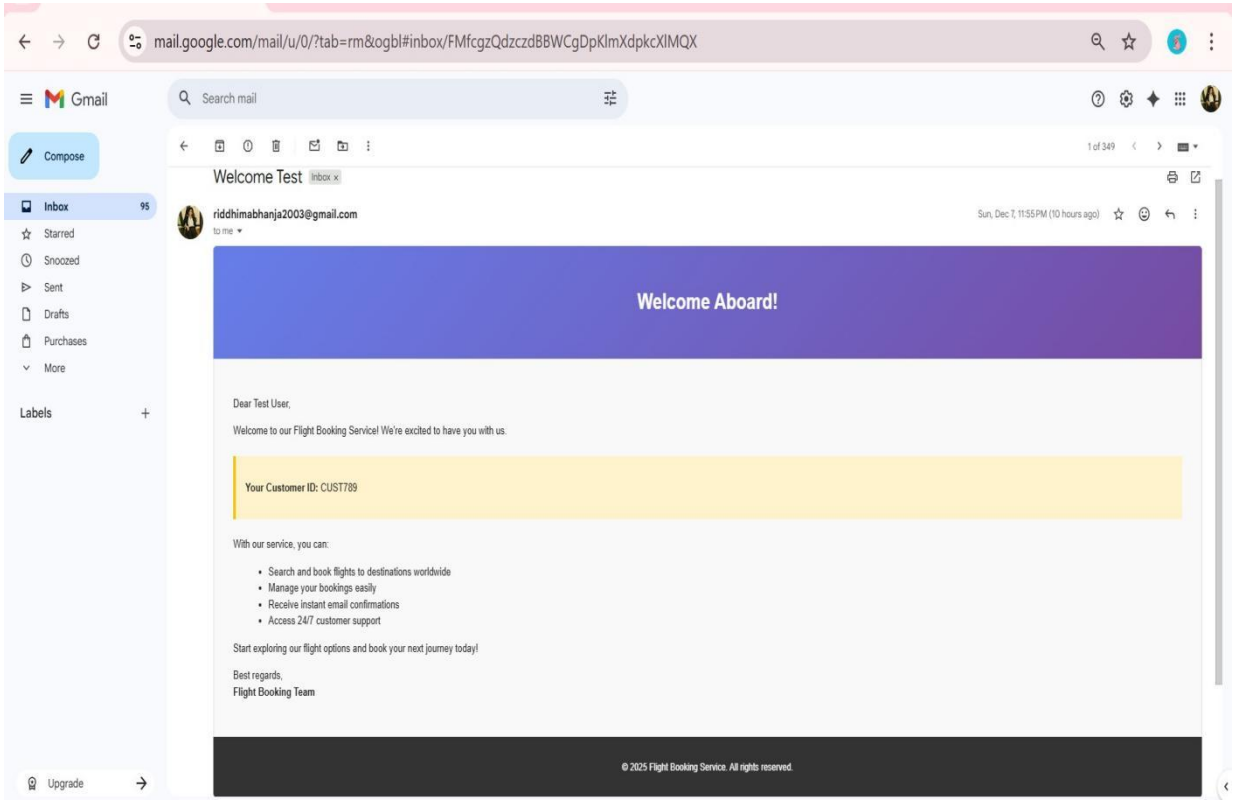


- Notification_logs

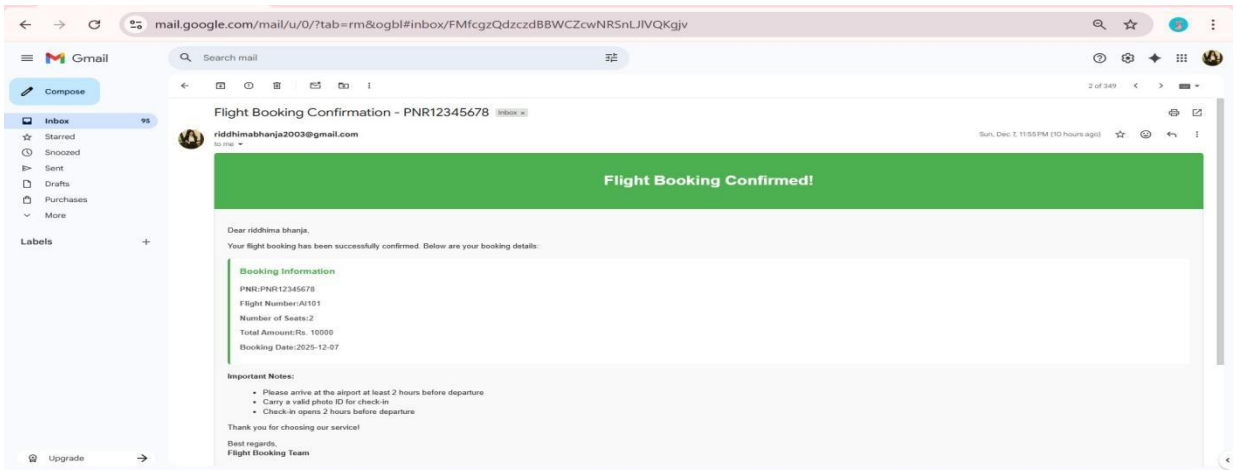


5. Email

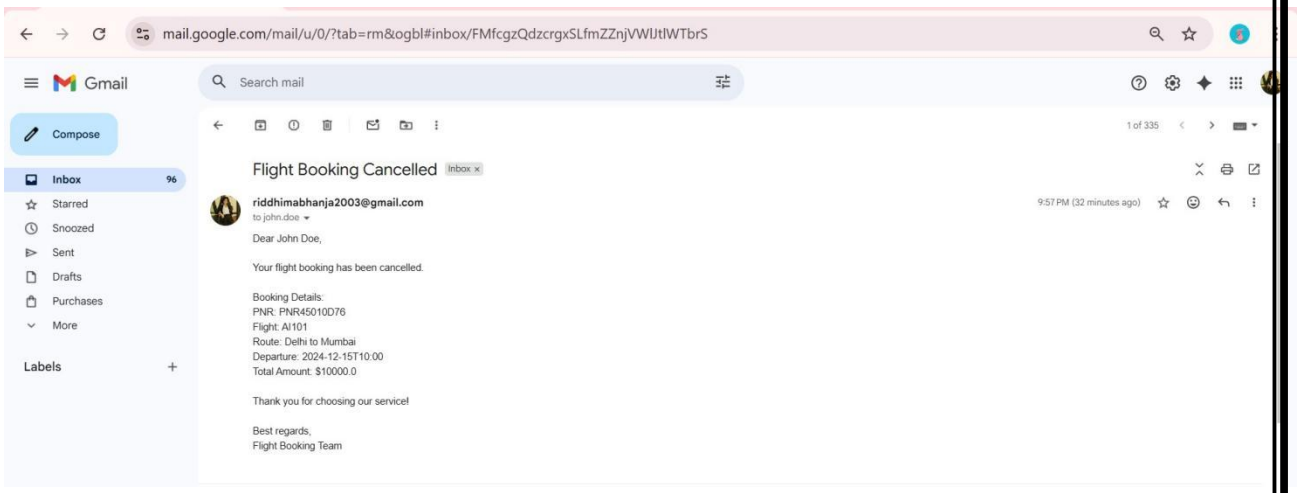
- Welcome Email



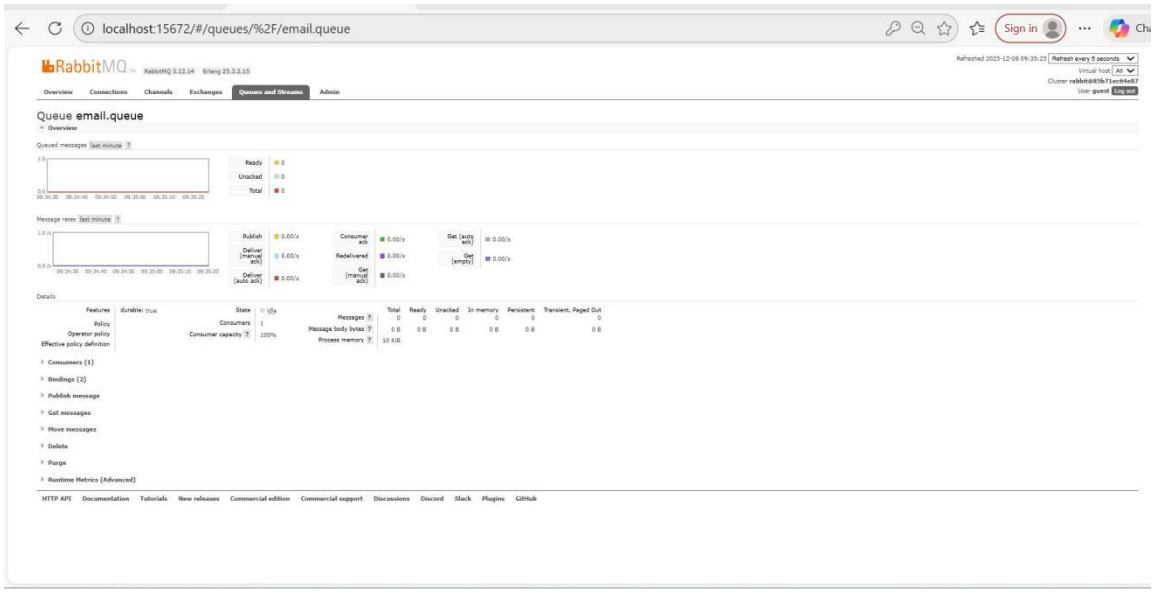
- Confirm Booking Email
-



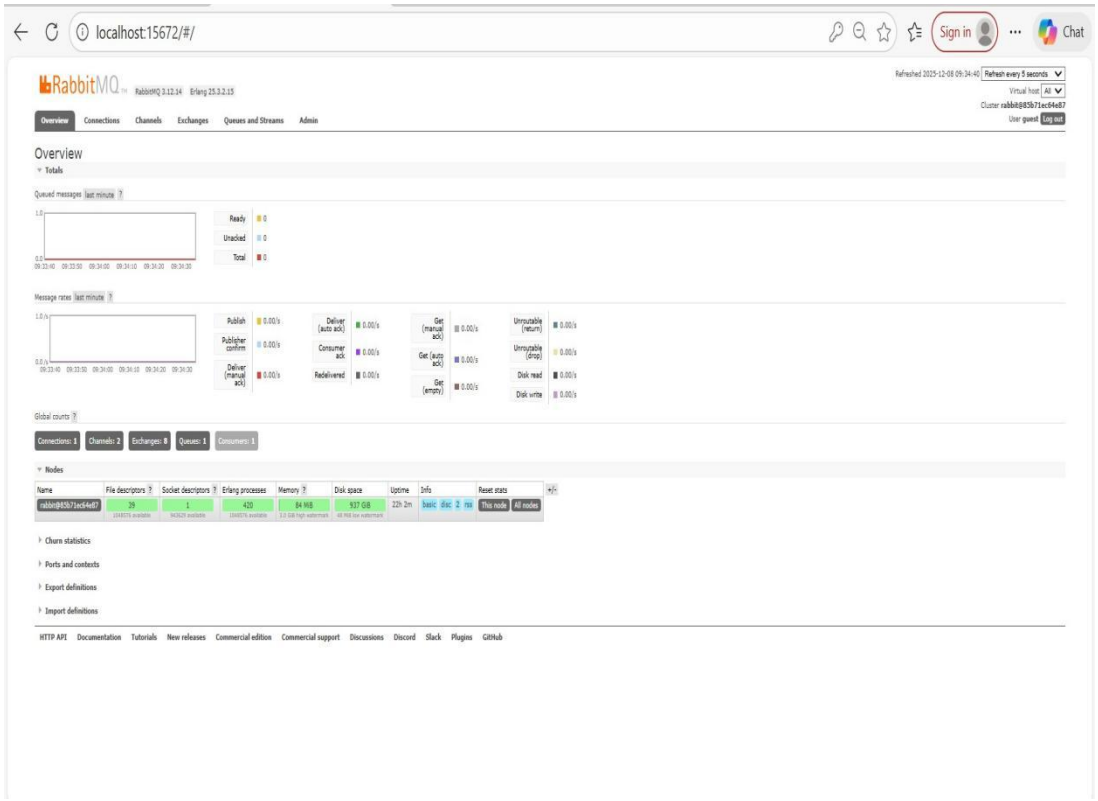
Flight cancel email



RabbitMQ email-queue dashboard

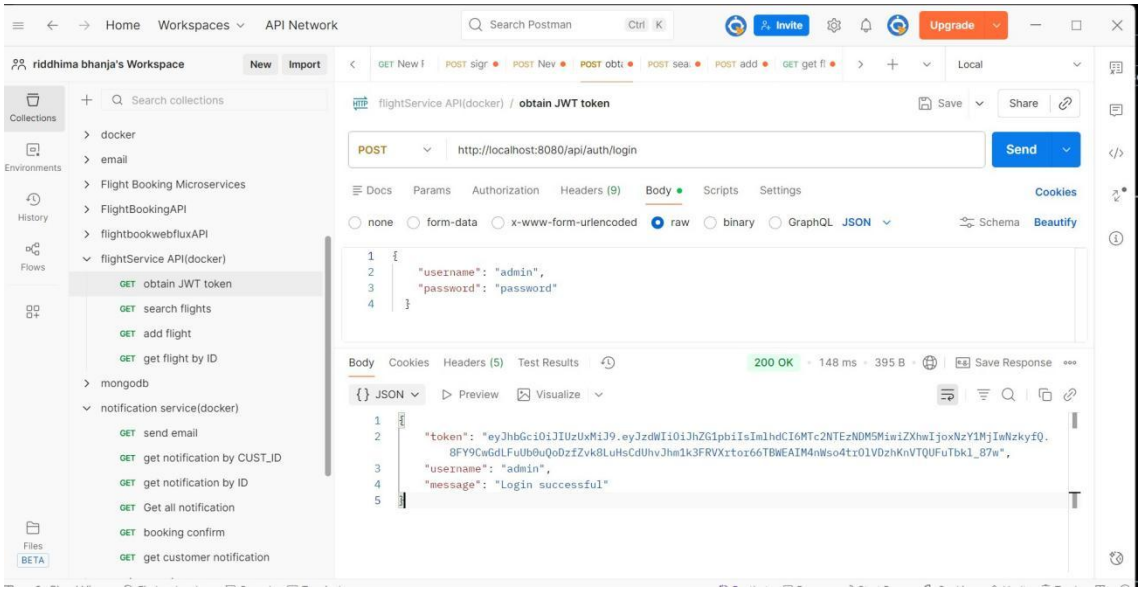


RabbitMQ overview dashboard

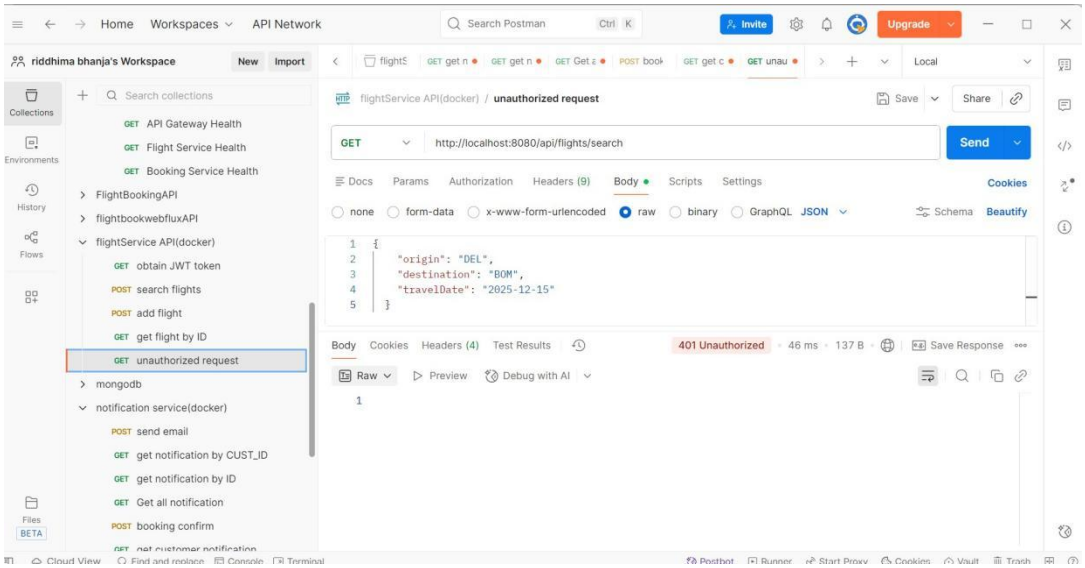


6. Postman screenshots

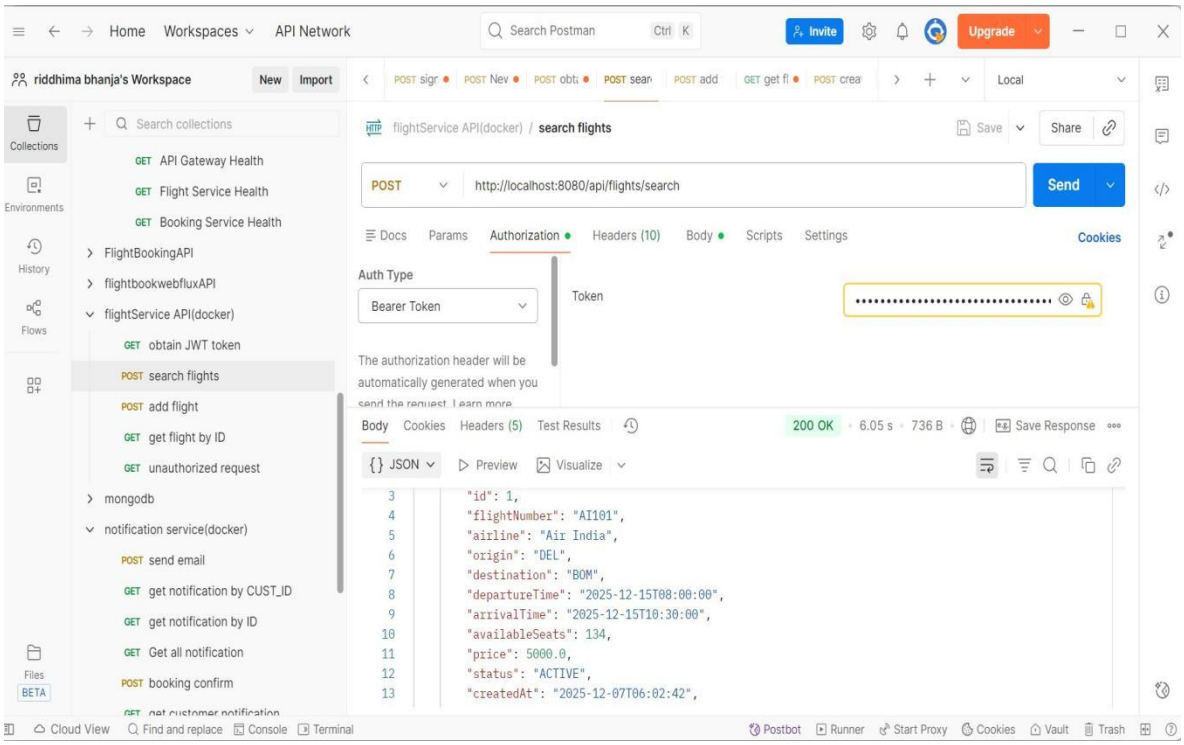
Obtain JWT TOKEN



Unauthorized access

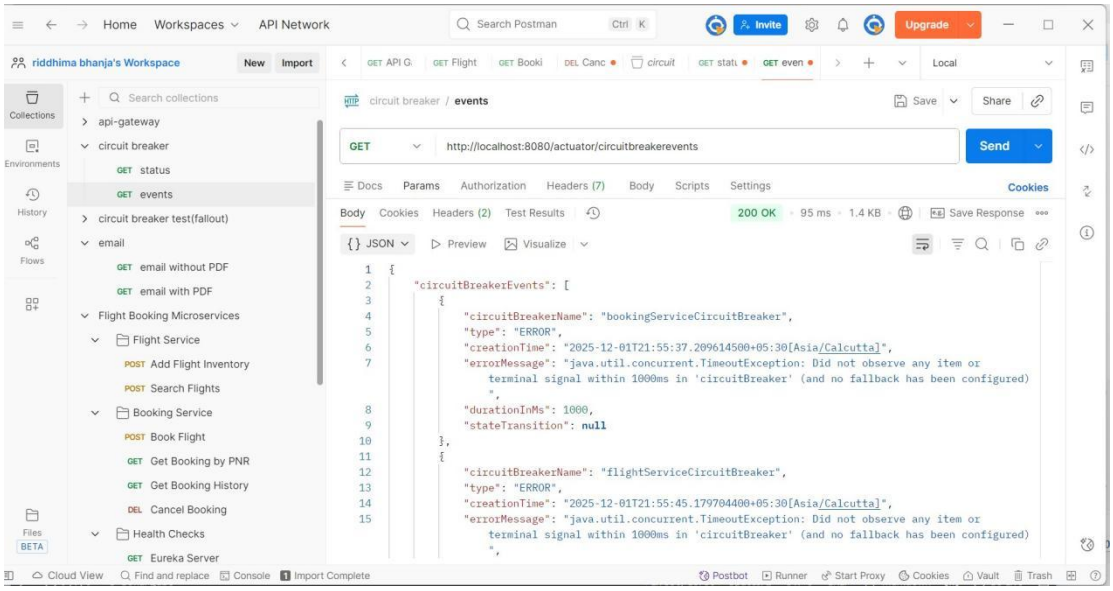


Same endpoint with auth bearer token

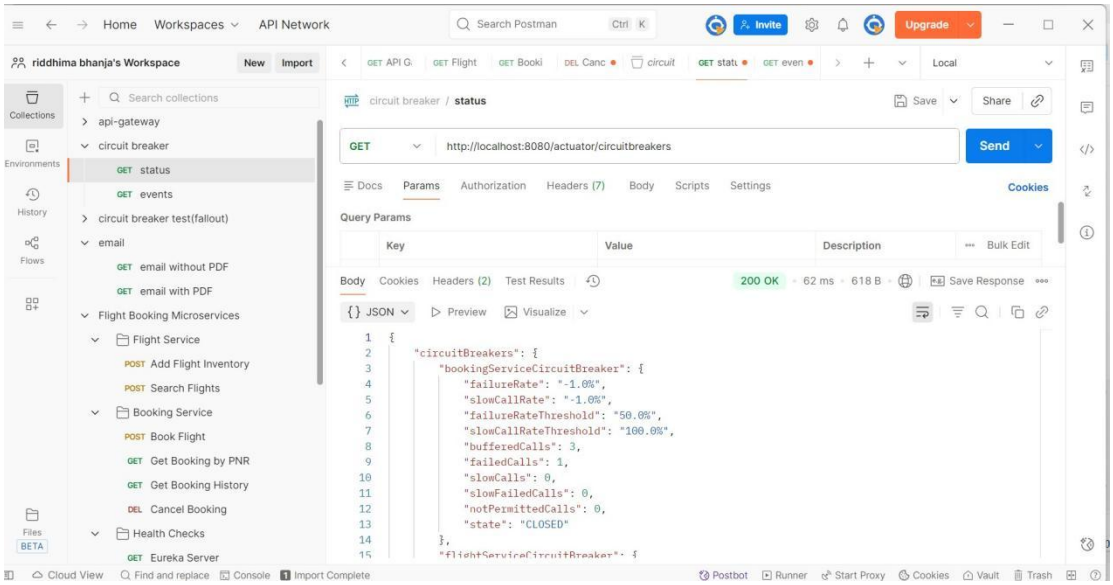


- **Circuit Breaker**

Events:

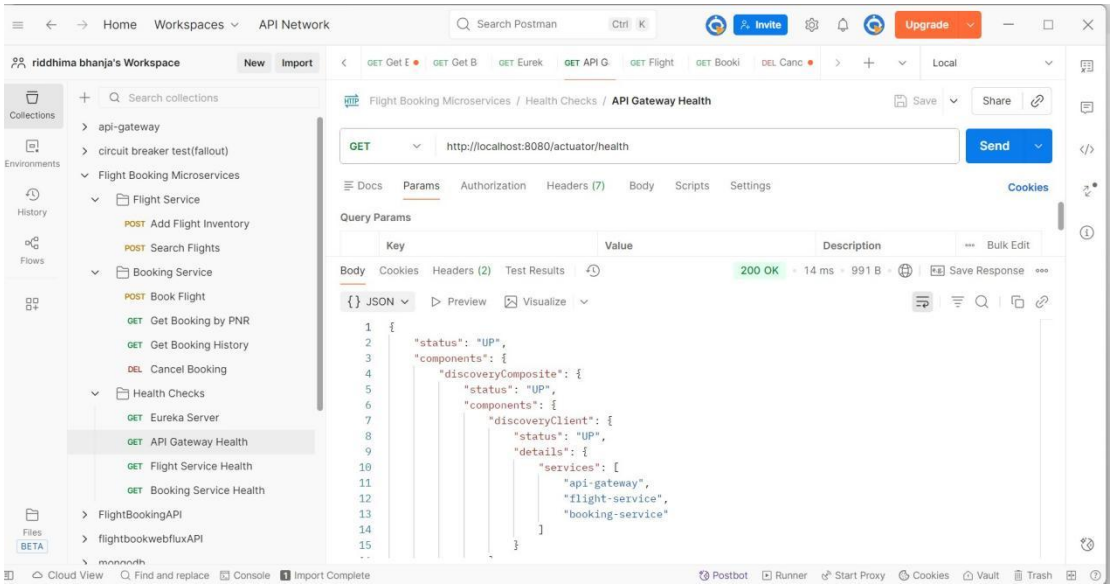


Status:

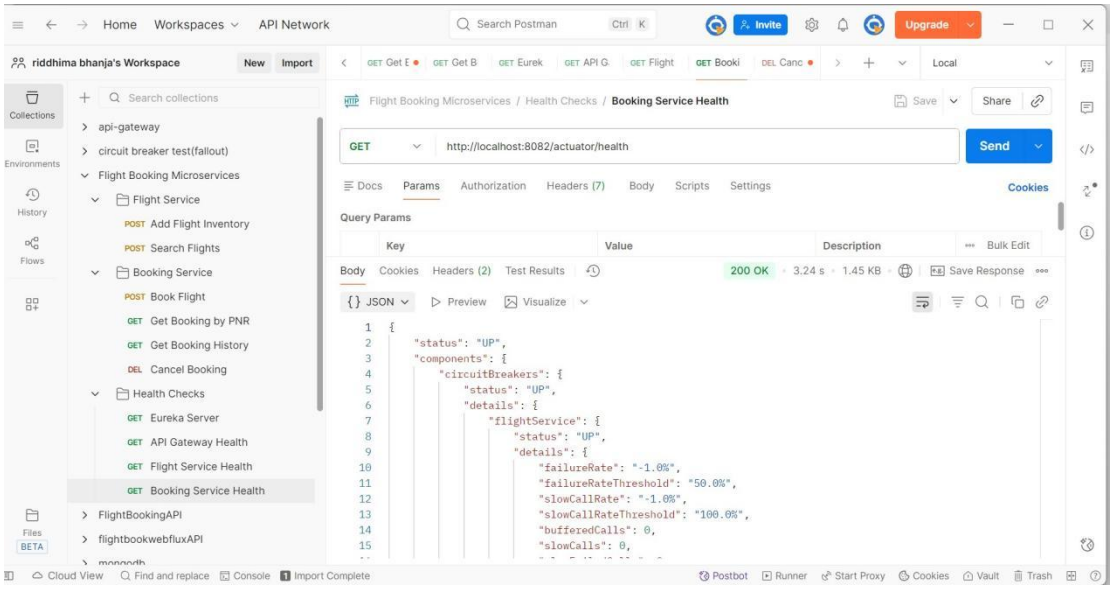


- **Health Check**

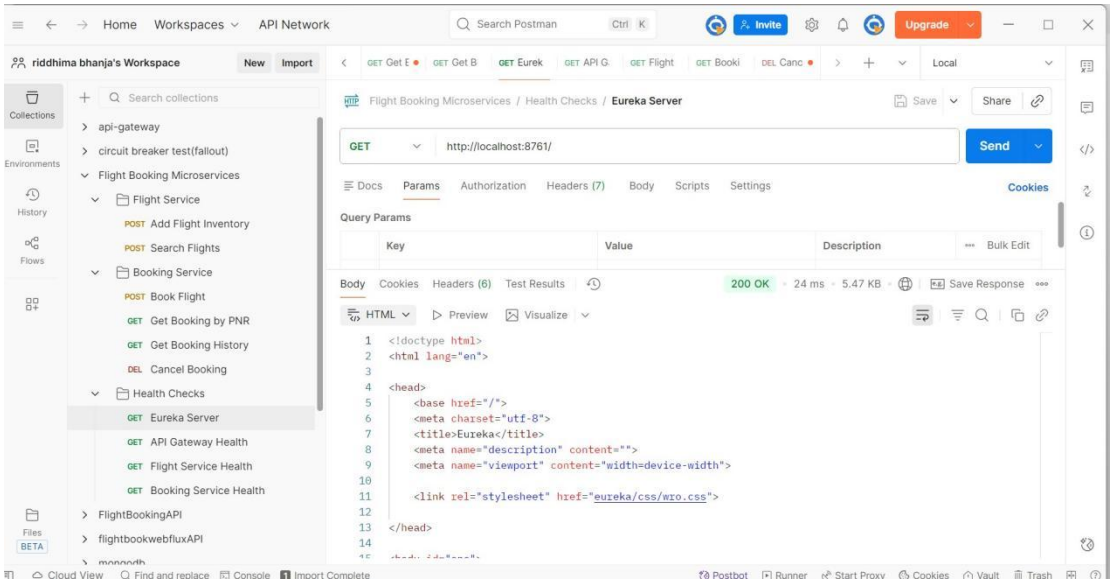
API gateway health:



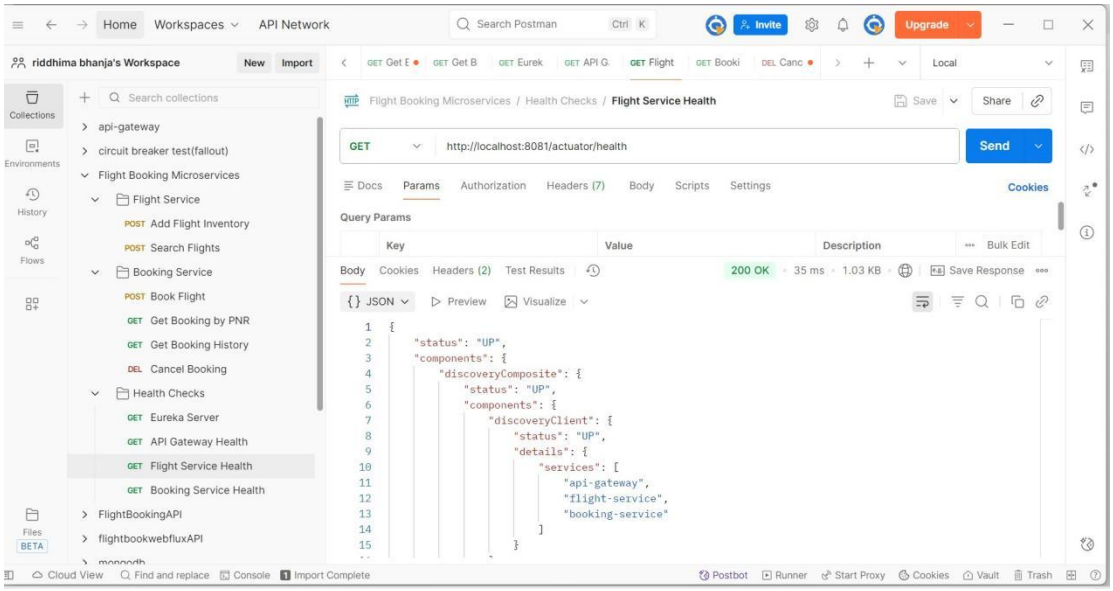
Booking Service Health:



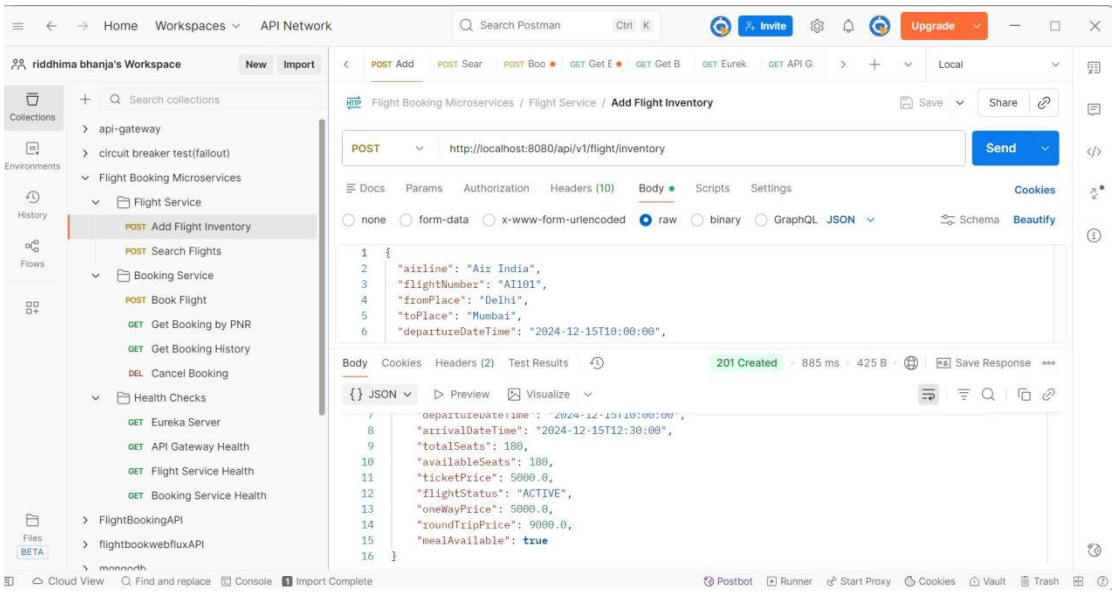
Eureka server:



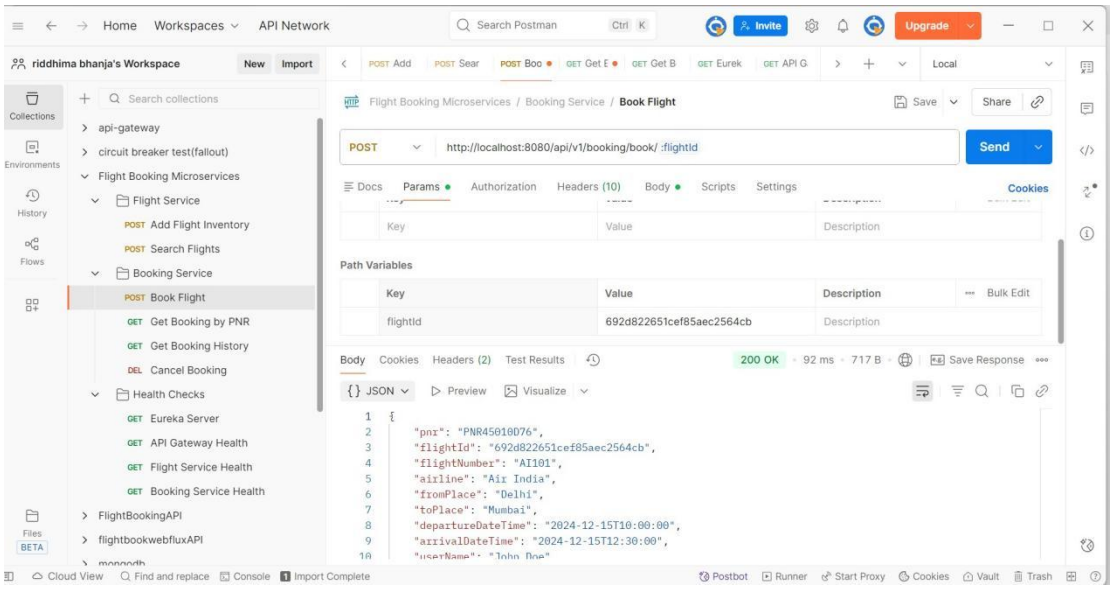
Flight Service Health:



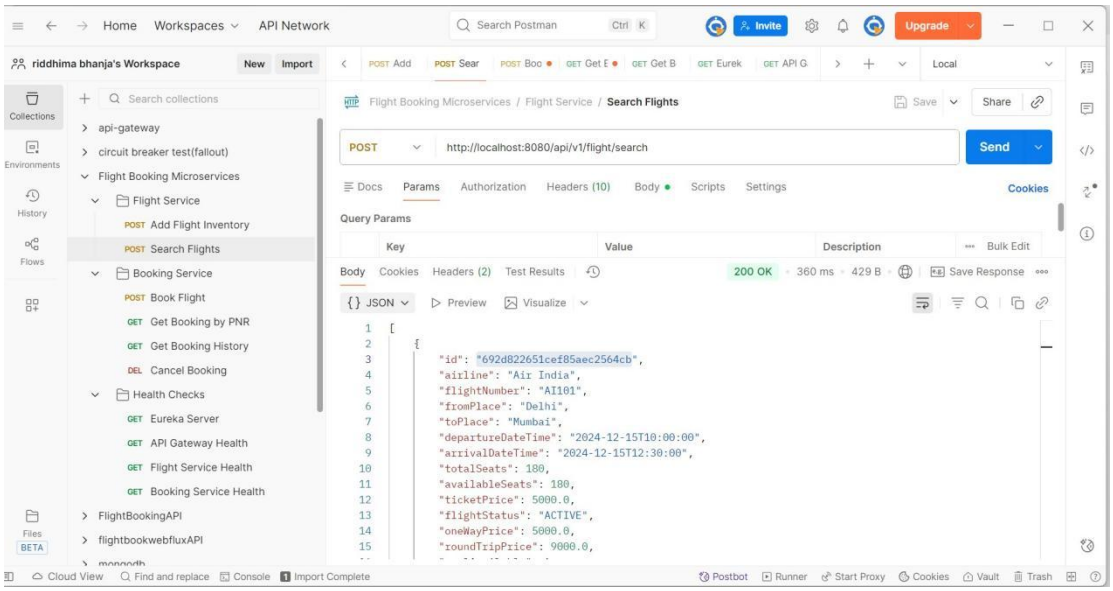
ADD FLIGHT



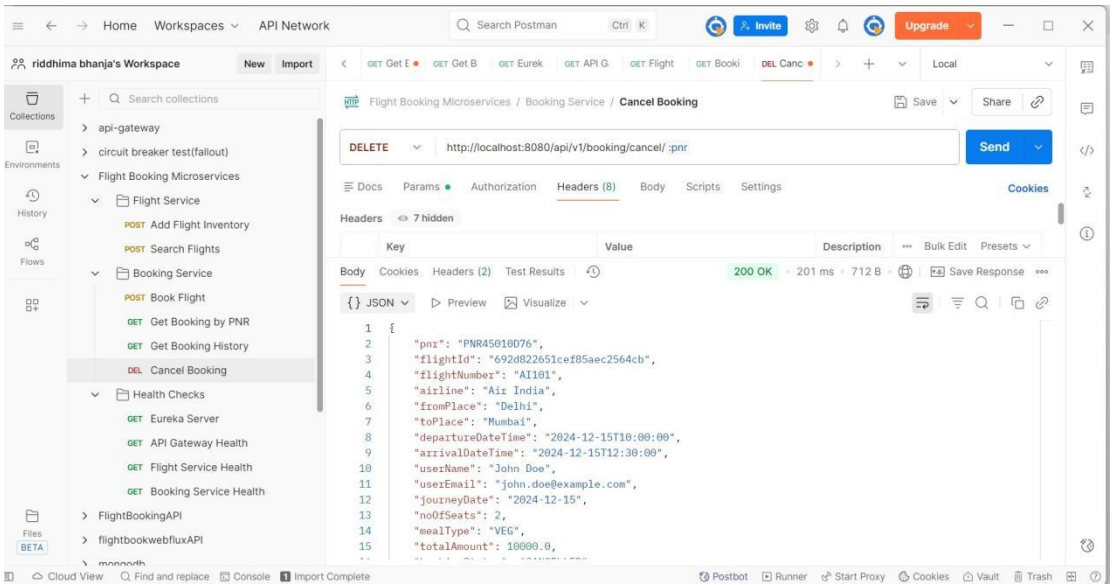
BOOK FLIGHT



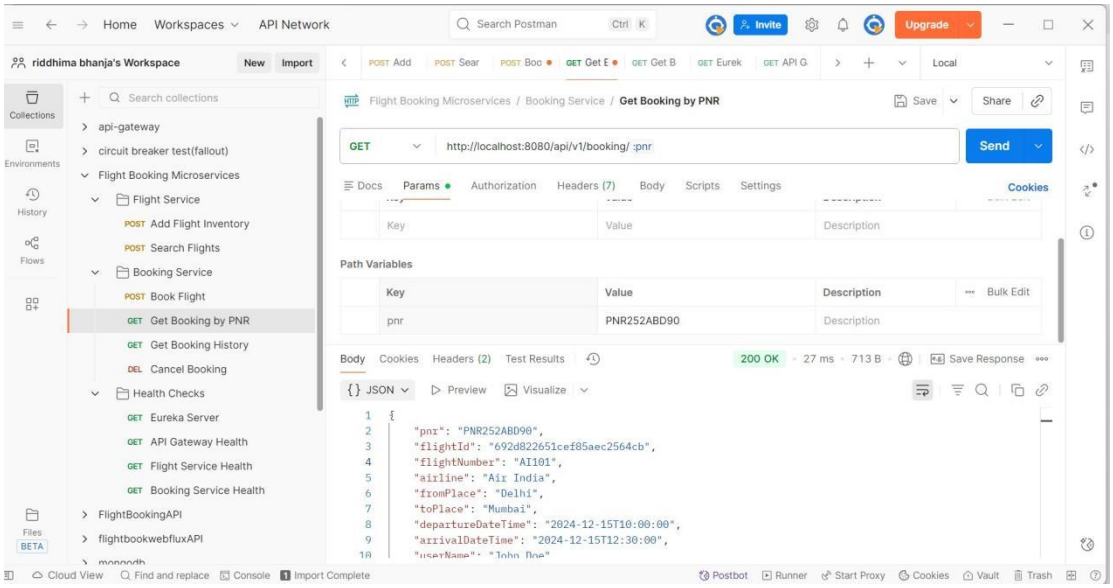
SEARCH FLIGHTS



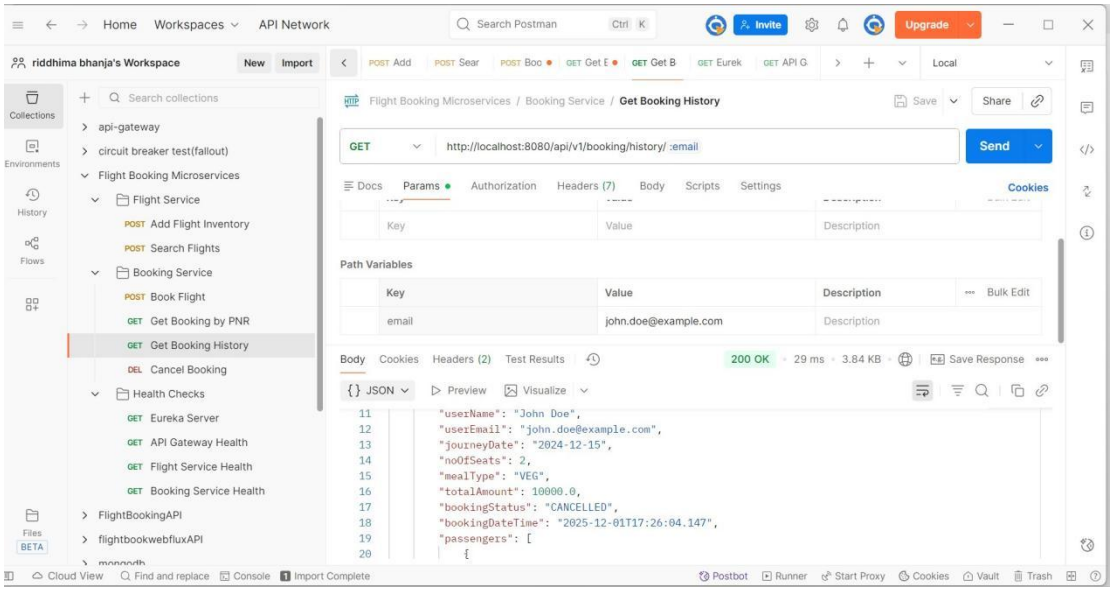
CANCEL BOOKING



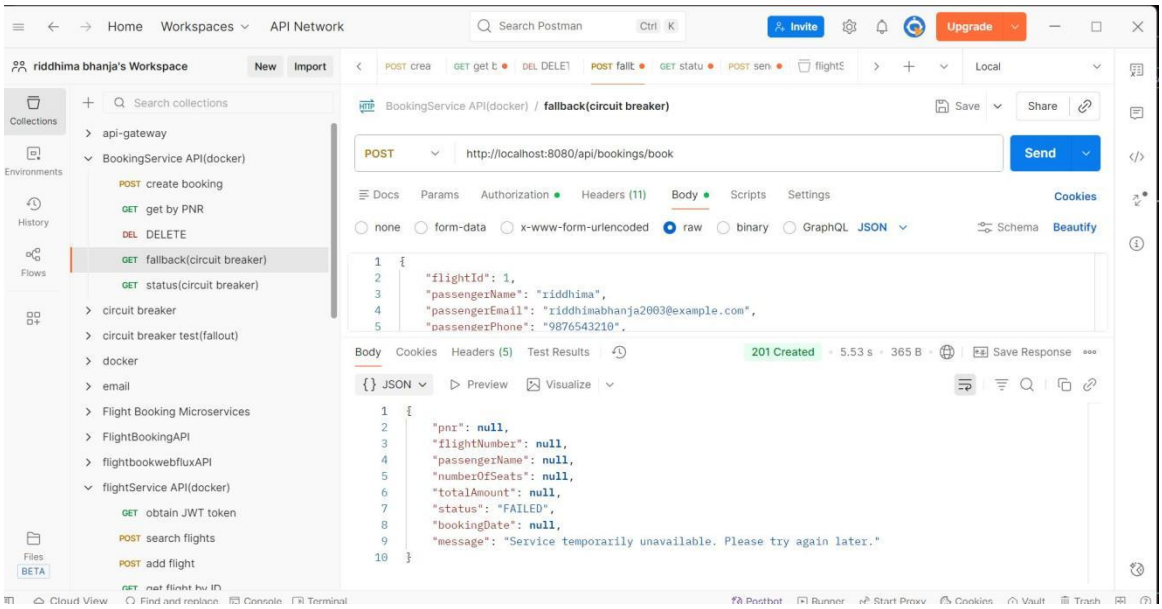
GET BOOKING BY PNR



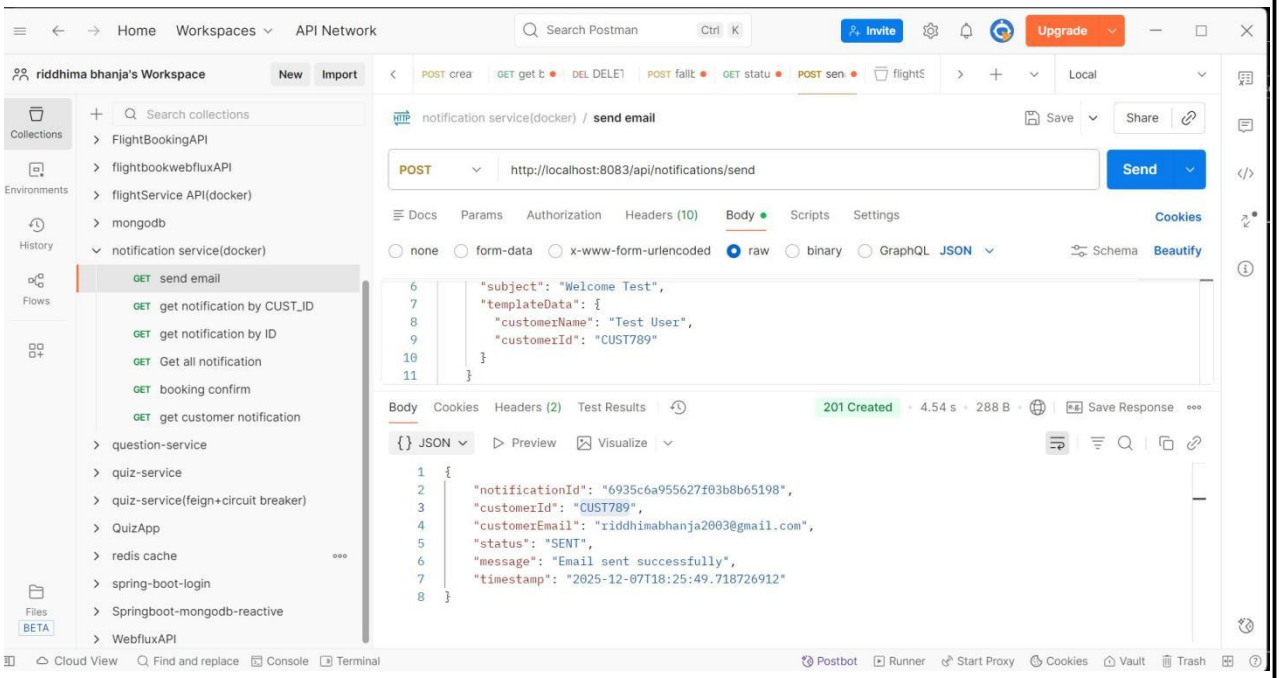
GET BOOKING HISTORY



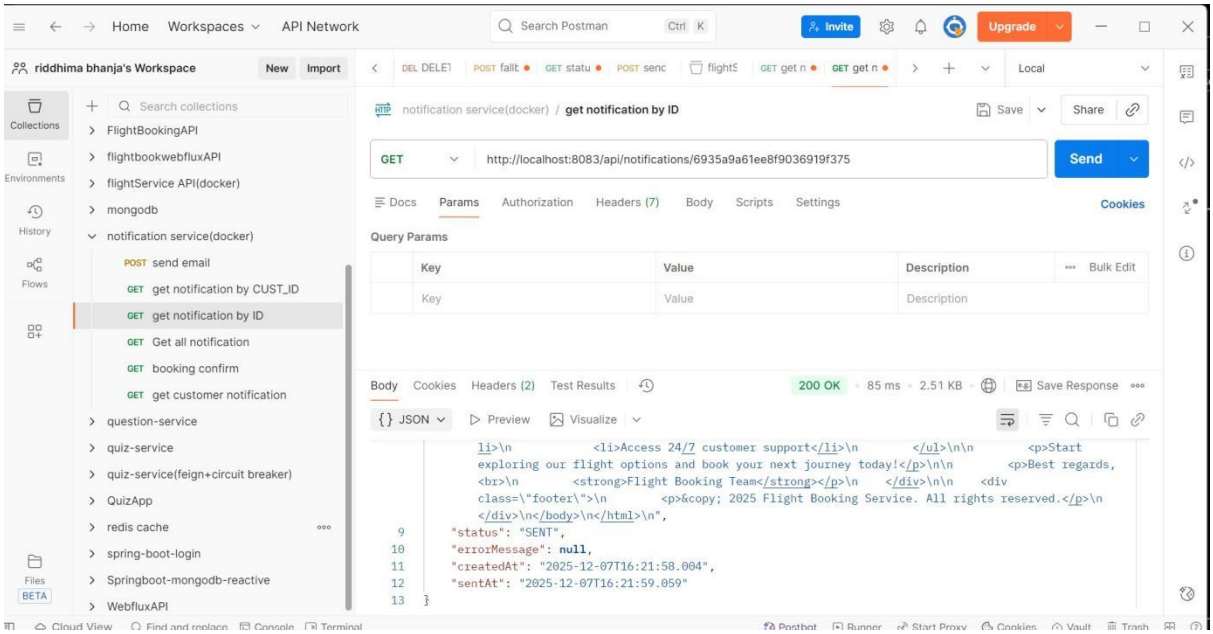
FALLBACK case



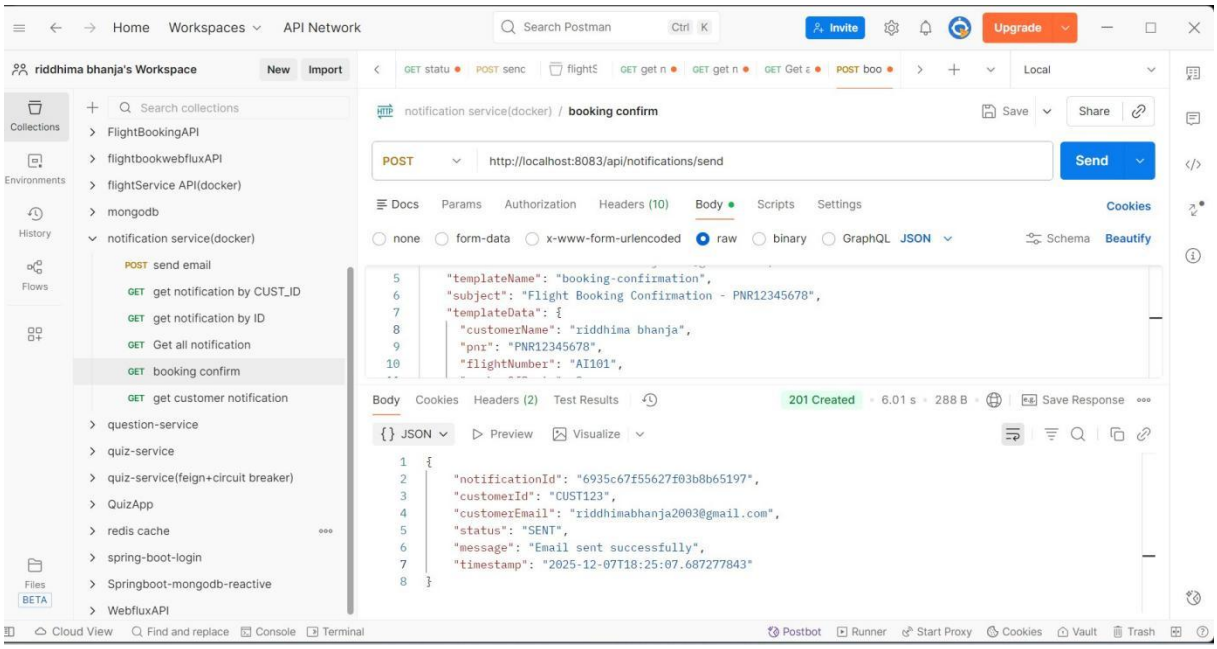
SEND EMAIL



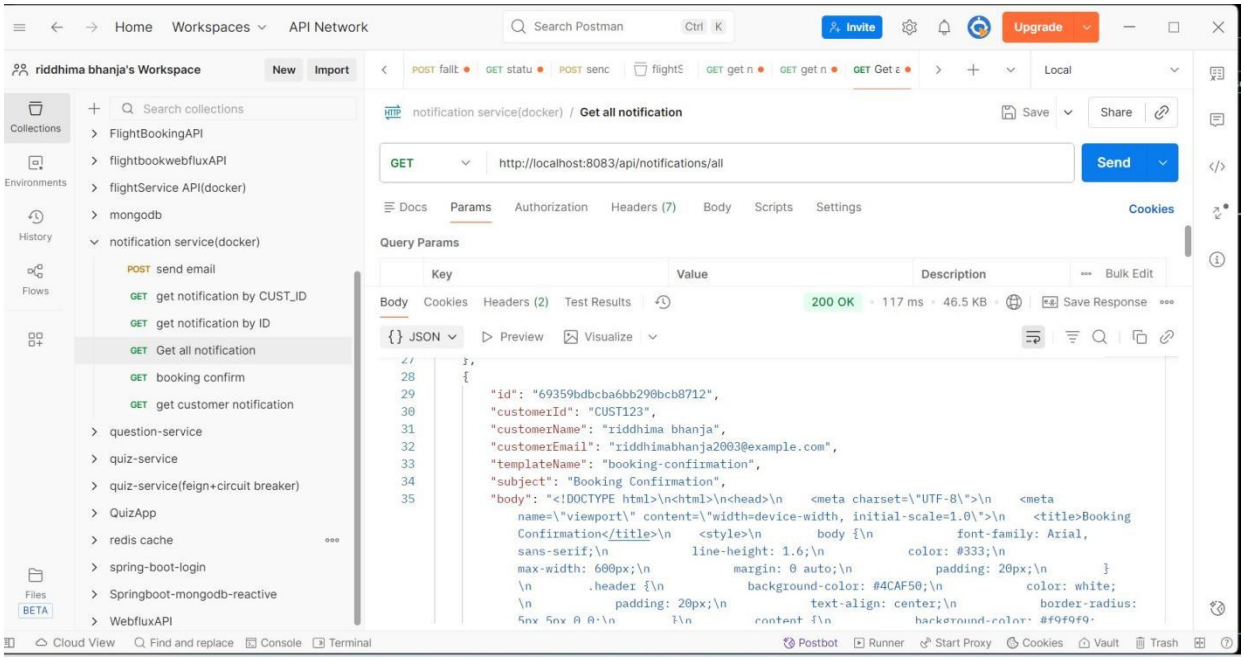
GET BY ID



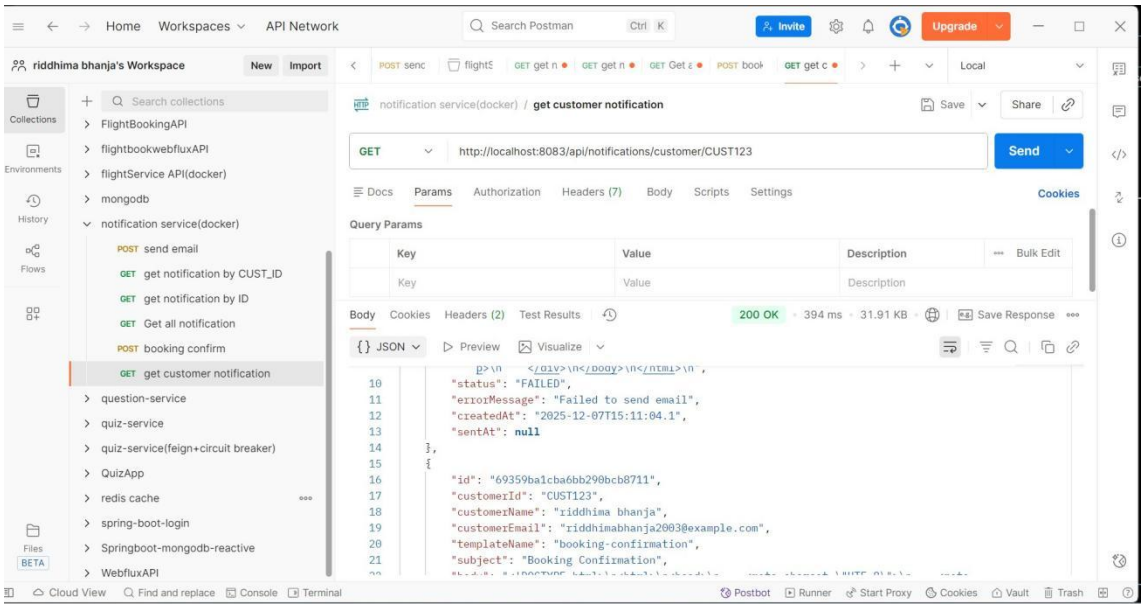
BOOKING CONFIRMATION EMAIL



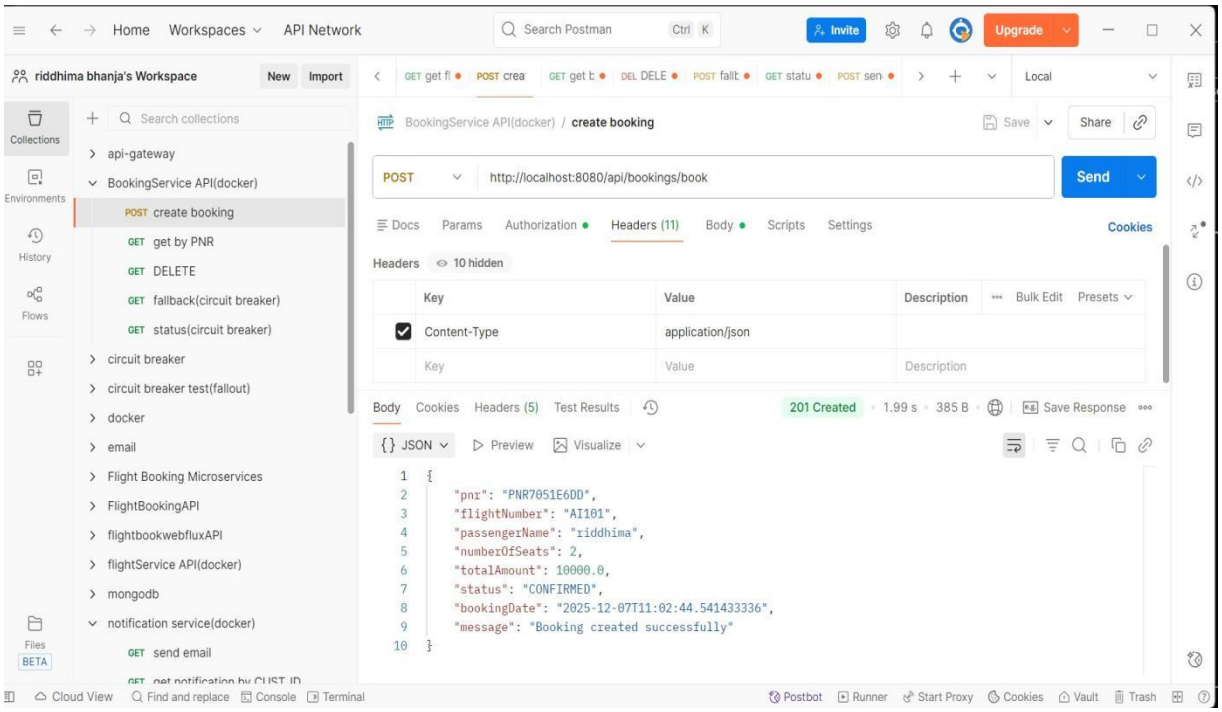
GET ALL NOTIFICATION



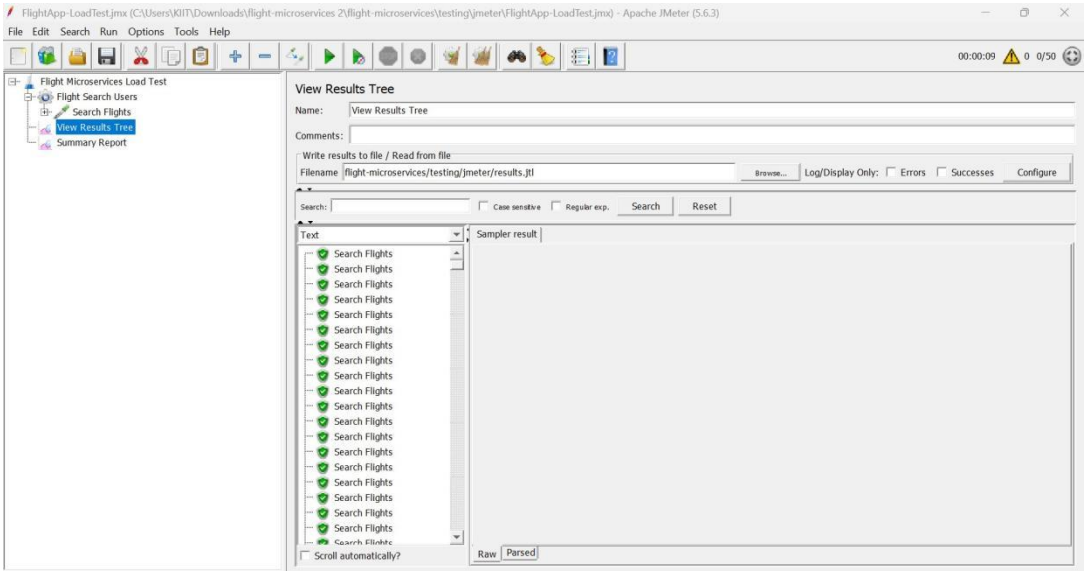
GET CUSTOMER NOTIFICATION



CREATE BOOKING

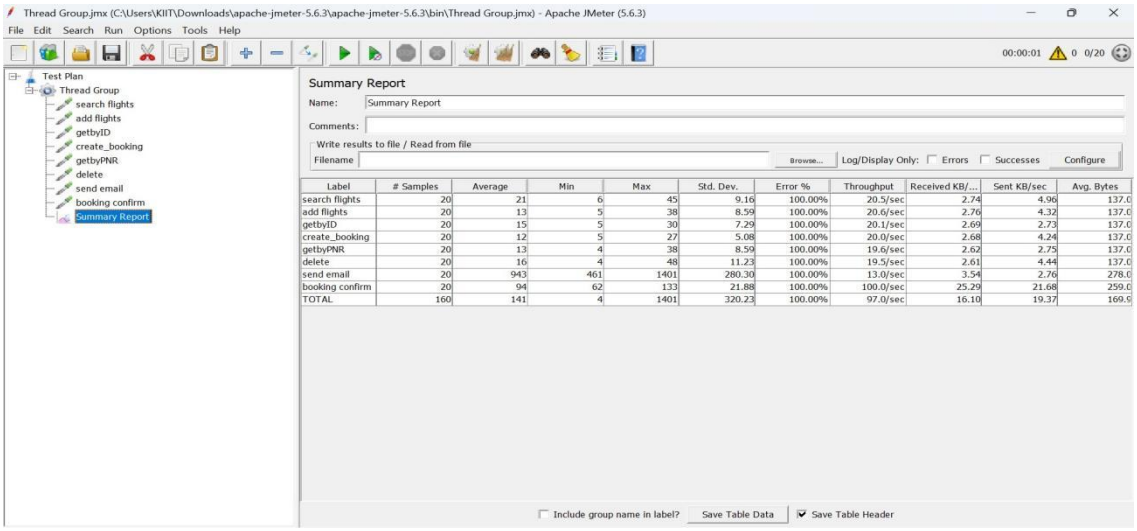


- Jmeter result tree



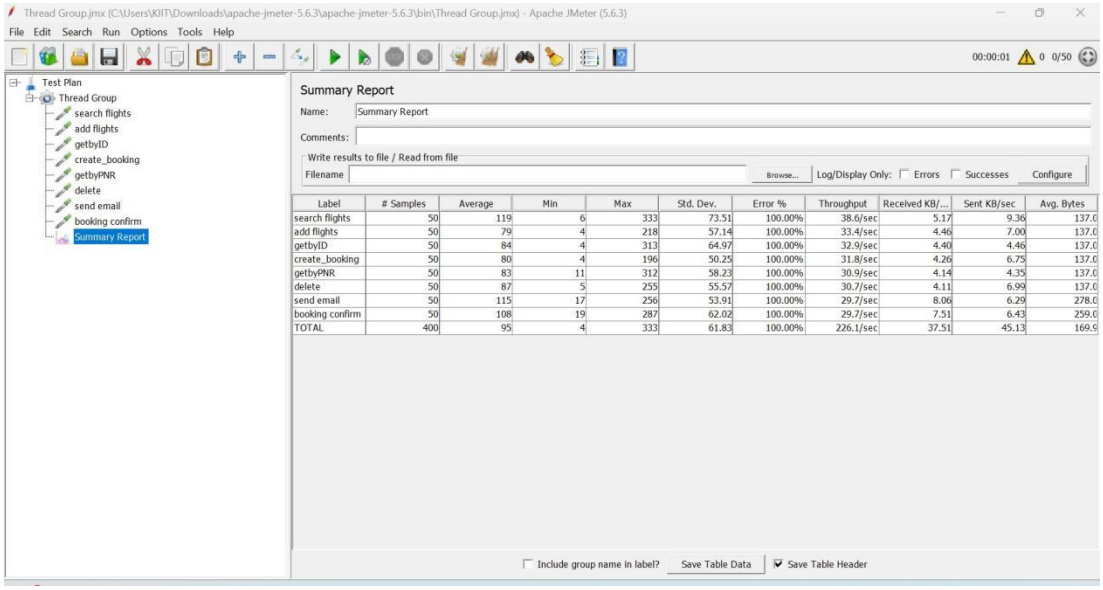
- [Jmeter Summary report]

20 Requests

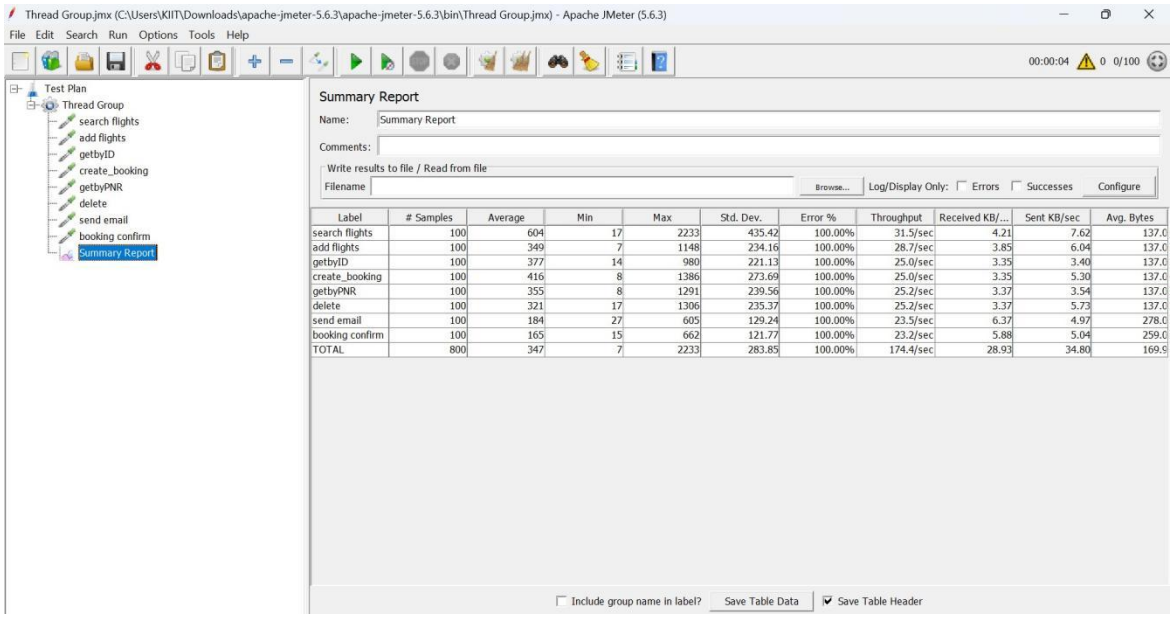


Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
search flights	20	21	6	45	9.16	100.00%	20.5/sec	2.74	4.96	137.0
add flights	20	13	5	38	8.59	100.00%	20.6/sec	2.76	4.32	137.0
getbyID	20	15	5	30	7.29	100.00%	20.1/sec	2.69	2.73	137.0
create_booking	20	12	5	27	5.08	100.00%	20.0/sec	2.68	4.24	137.0
getbyPNR	20	13	4	38	8.59	100.00%	19.6/sec	2.62	2.75	137.0
delete	20	16	4	48	11.23	100.00%	19.5/sec	2.61	4.44	137.0
send email	20	943	461	1401	280.30	100.00%	13.0/sec	3.54	2.76	278.0
booking confirm	20	94	62	133	21.88	100.00%	100.0/sec	25.29	21.68	259.0
TOTAL	160	141	4	1401	320.23	100.00%	97.0/sec	16.10	19.37	169.9

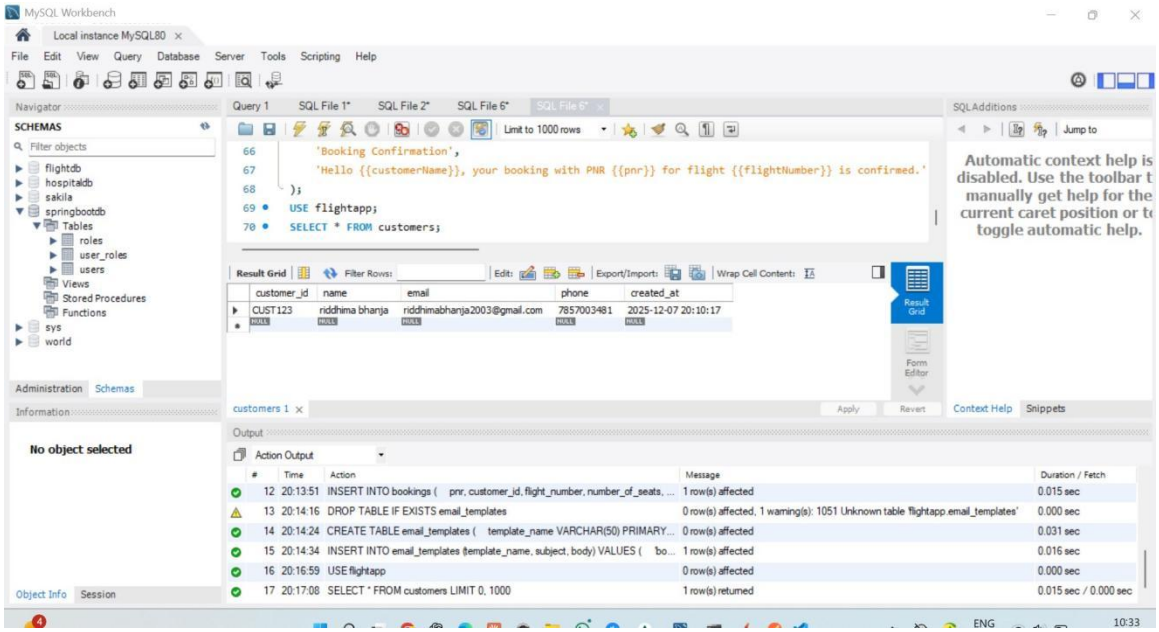
50 Requests



100 Requests



MySQL Workbench



EUREKA DASHBOARD