ASSIGNMENT – 8

Report by Bhavana Sree Naidu Yeluri

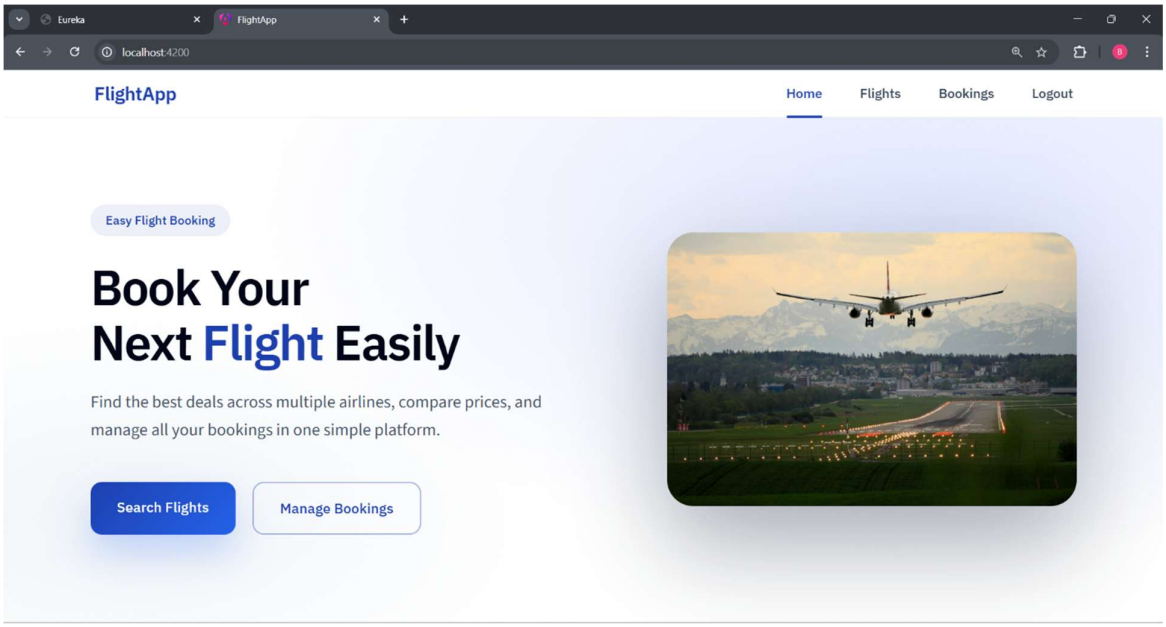
Contents

Project Overview

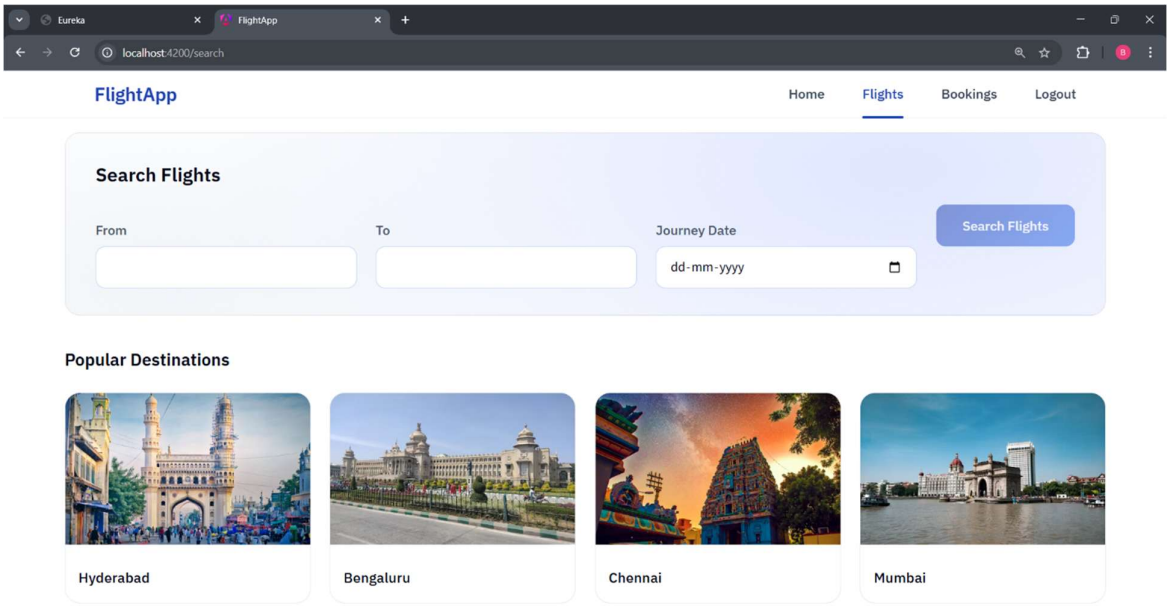
- Developed a responsive **Angular-based frontend** for a flight booking platform.
- Implemented **user authentication flows** including login and registration with **JWT**-based session handling.
- Built **flight search, booking history, and admin inventory**.
- Integrated **role-based navigation** to redirect users and admins to appropriate pages.
- Used **HTTP interceptors** for automatic Bearer token attachment to secured API requests.

Frontend Screenshots

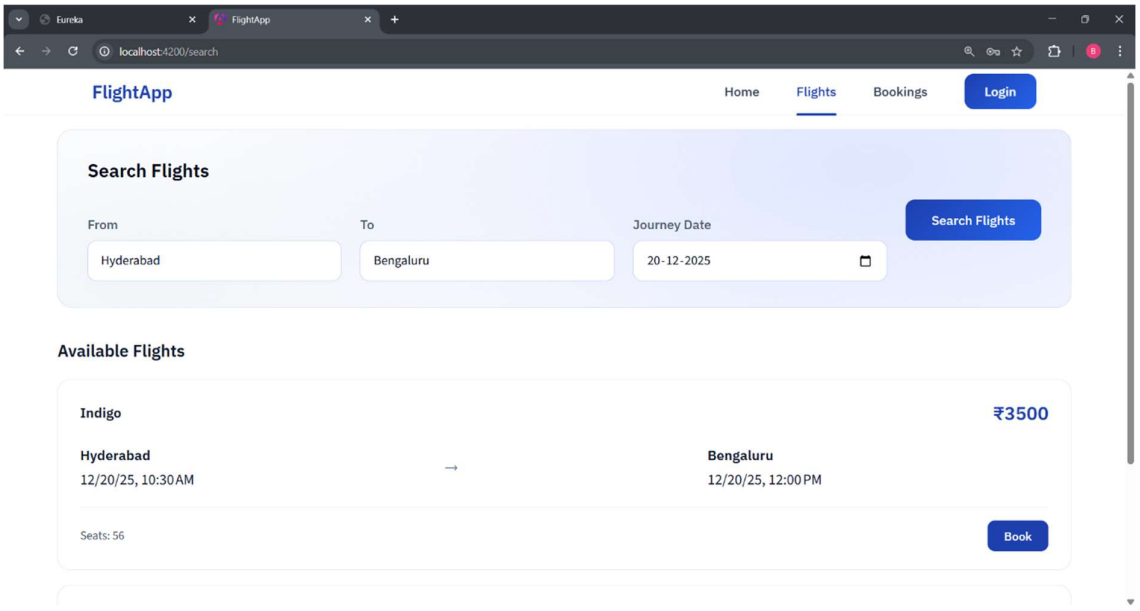
- Landing page

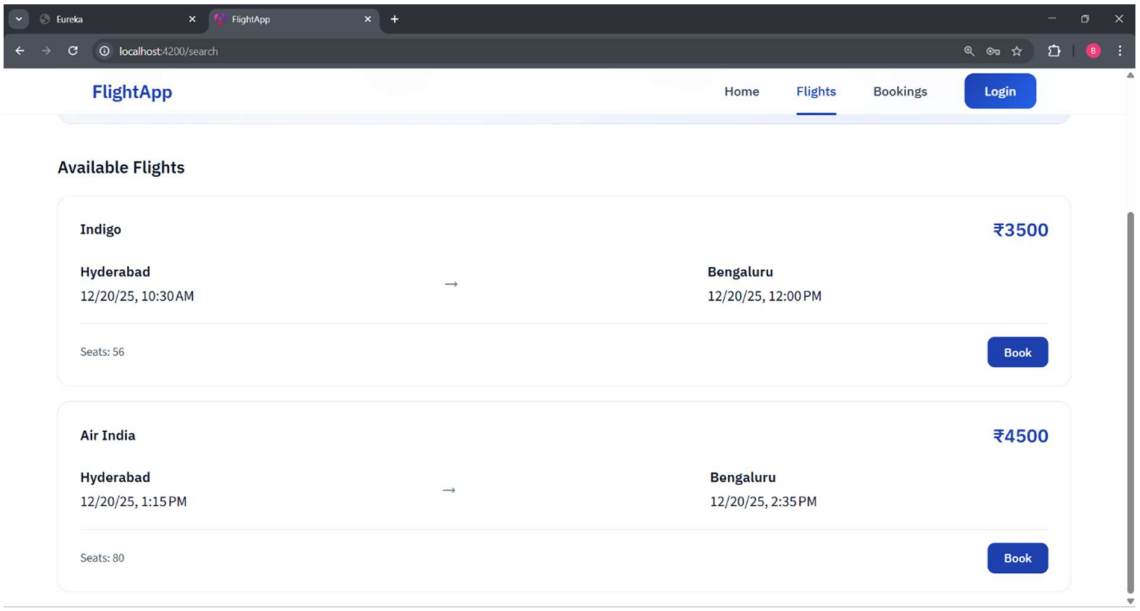


- Search Flights

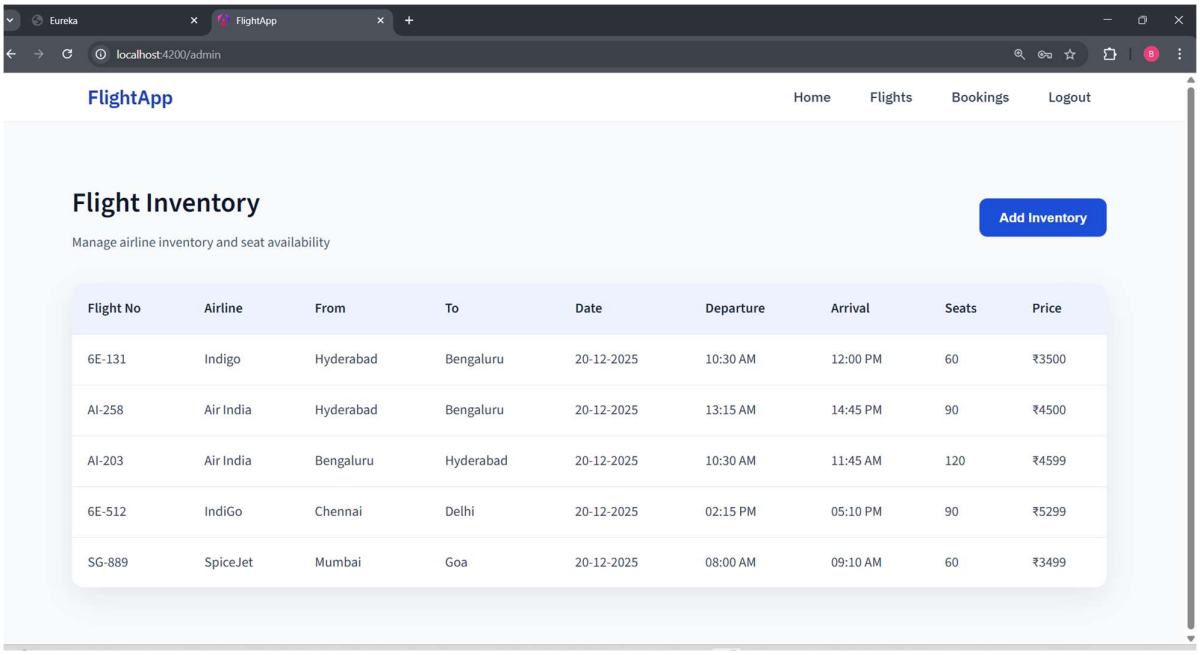


- Search Flights Results

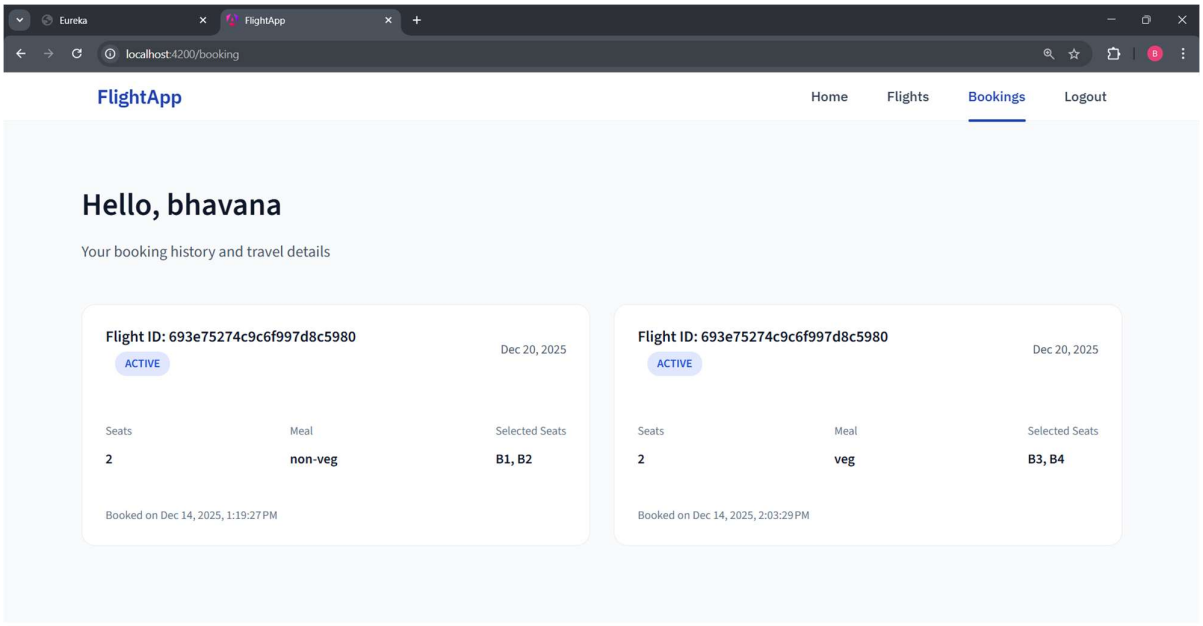




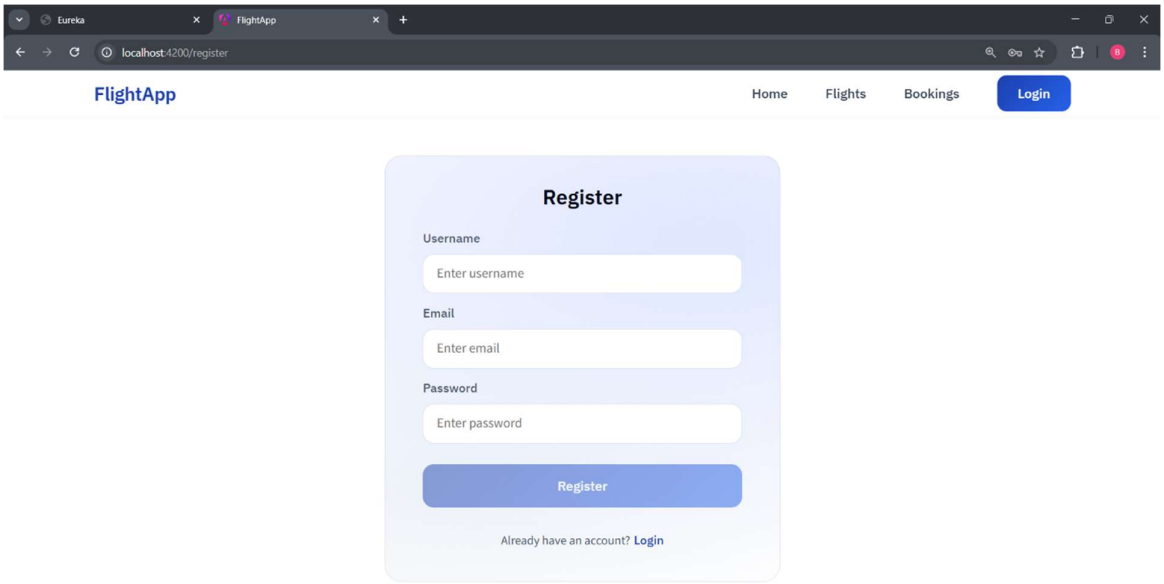
- Admin Dashboard



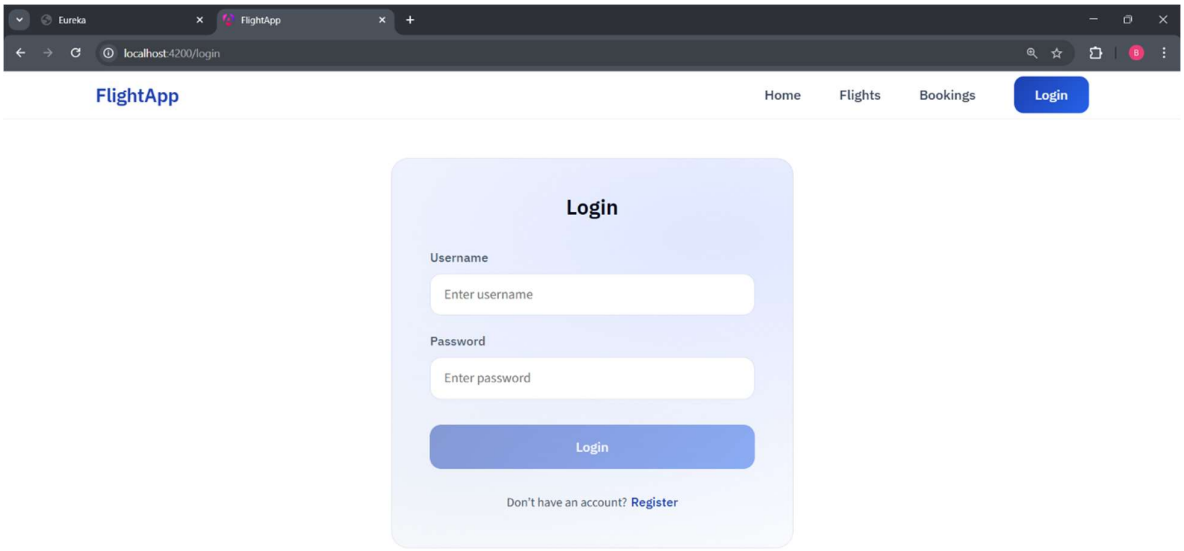
- User Dashboard



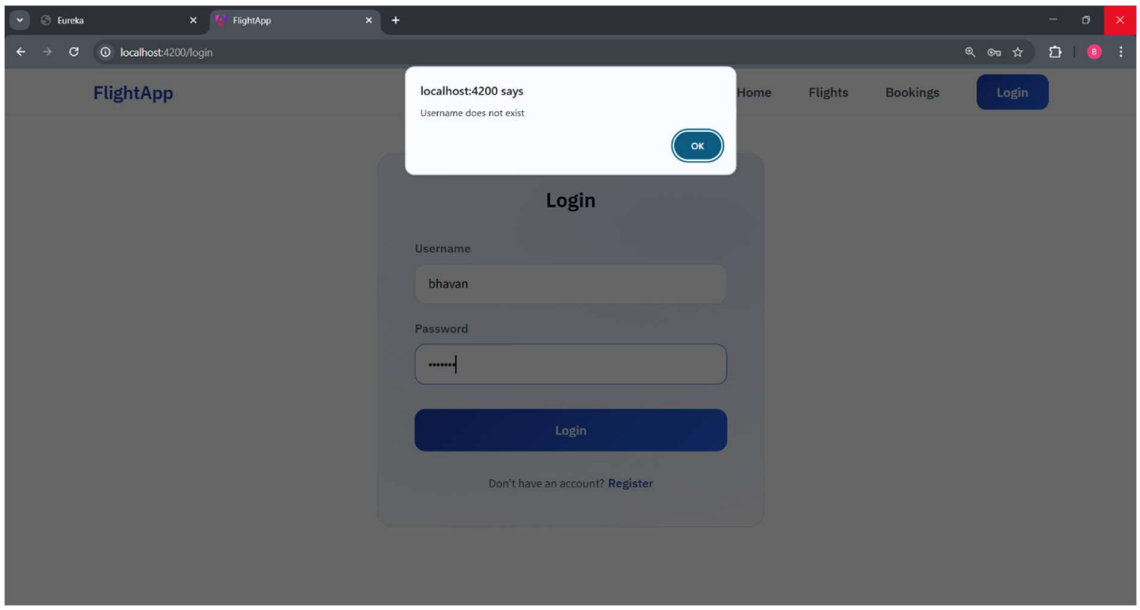
- Register



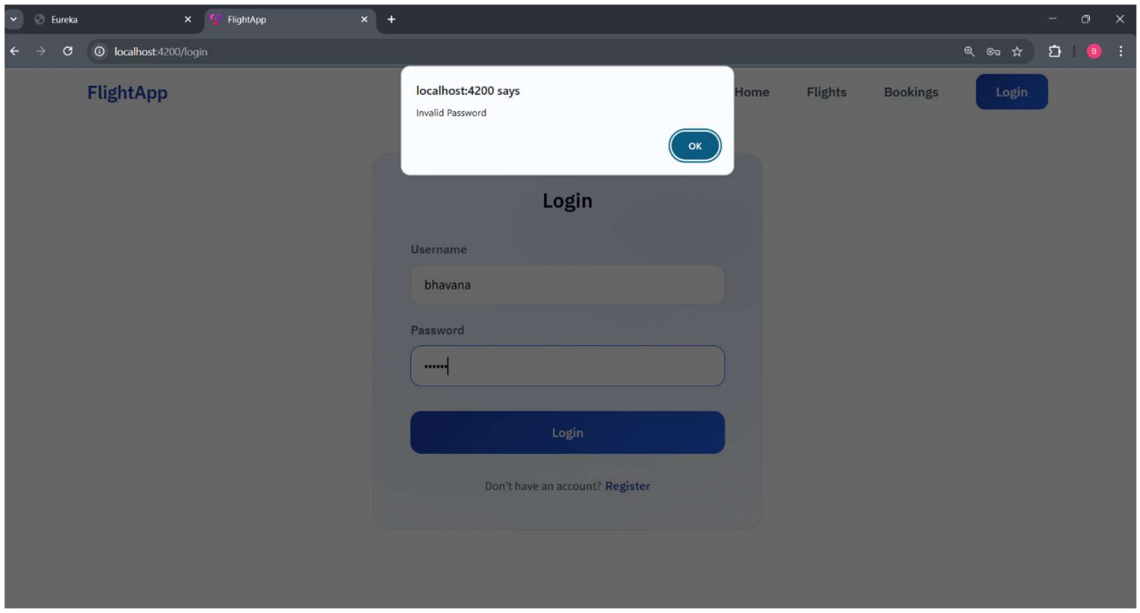
- Login



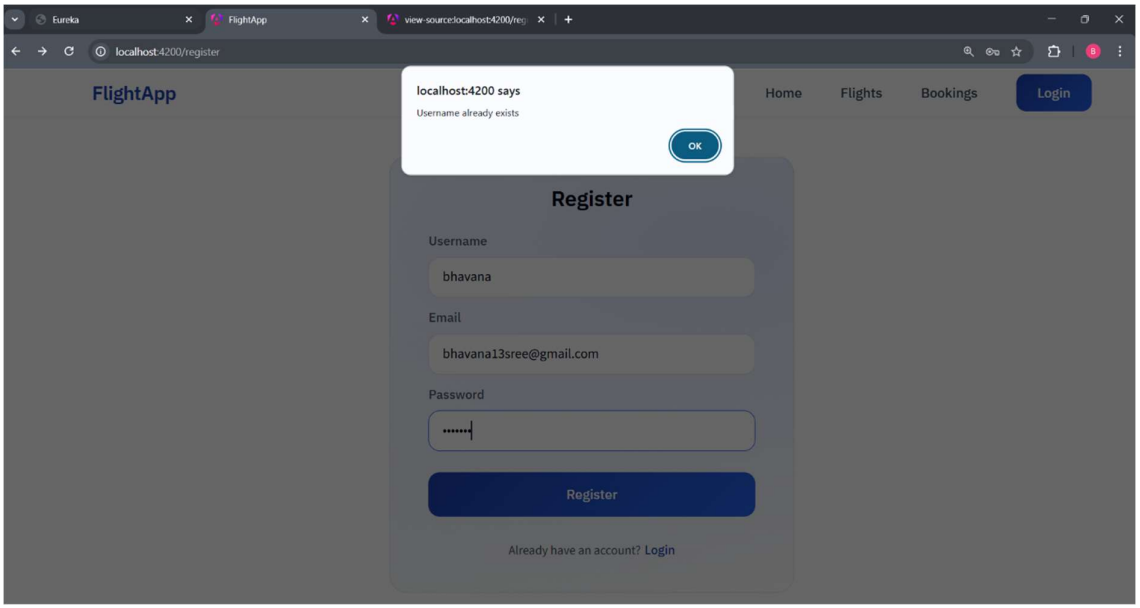
- Validations
  - Invalid username



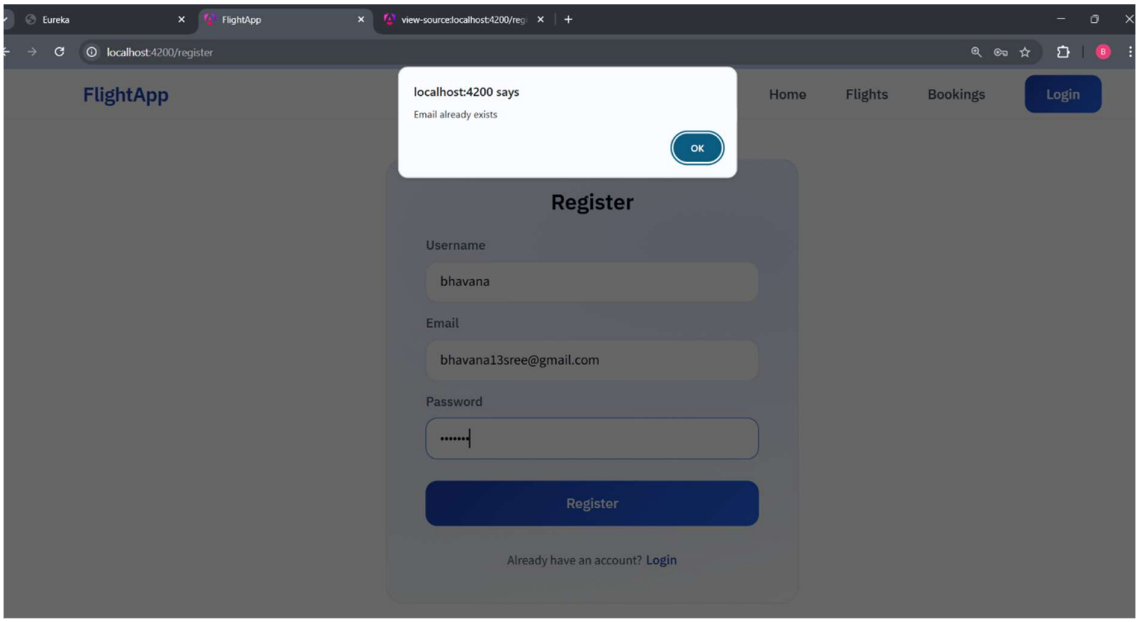
  - Invalid password



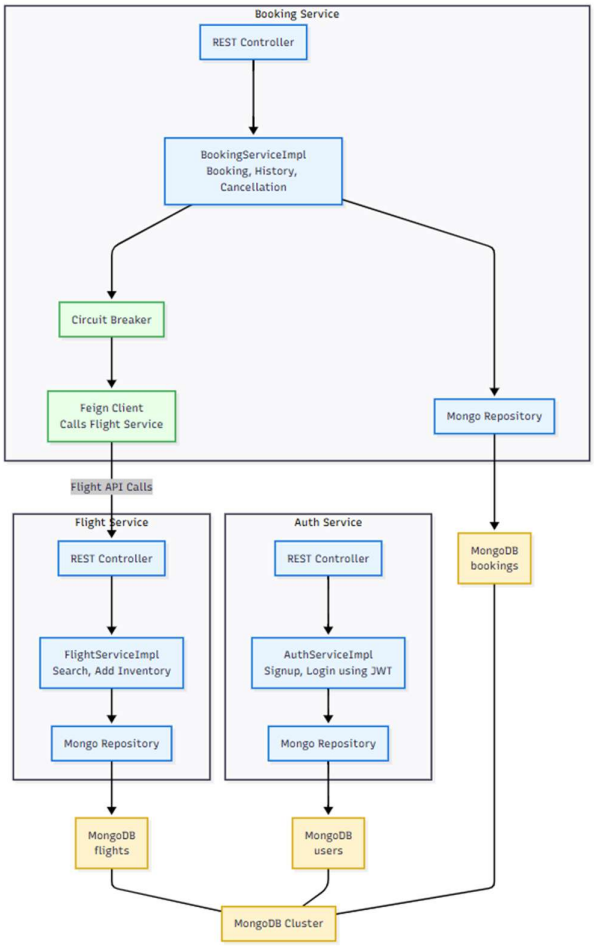
- Username already taken

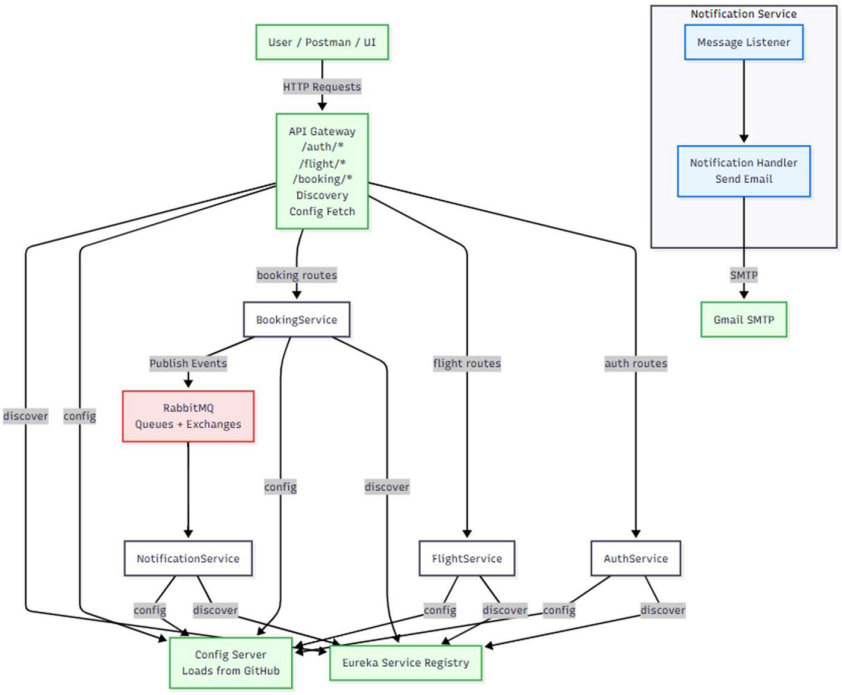


- Email already in use

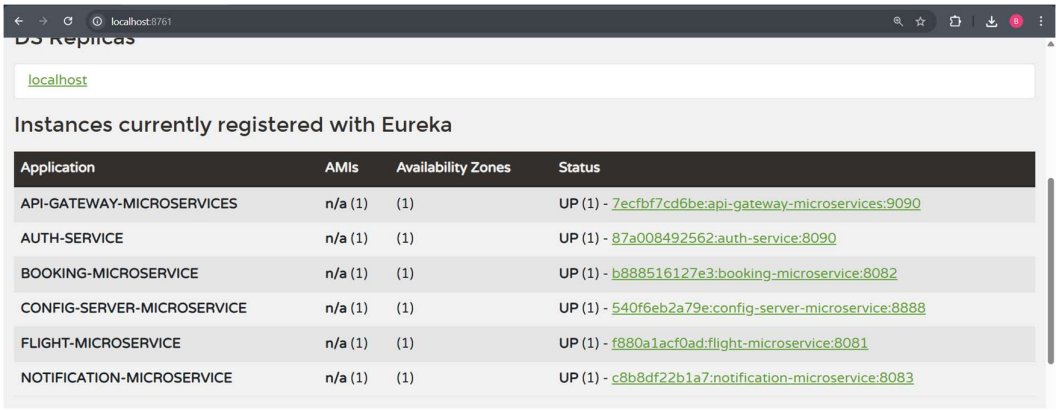


System Architecture

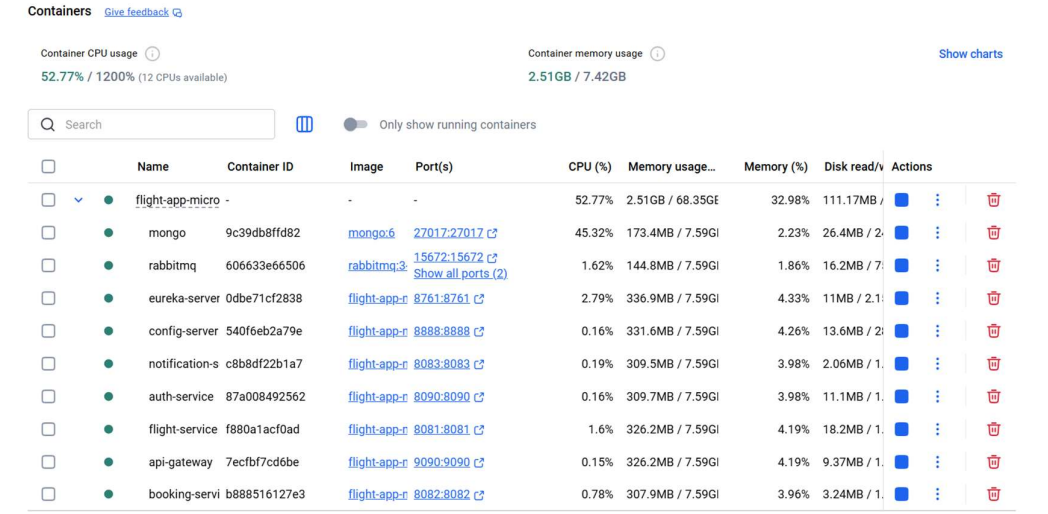


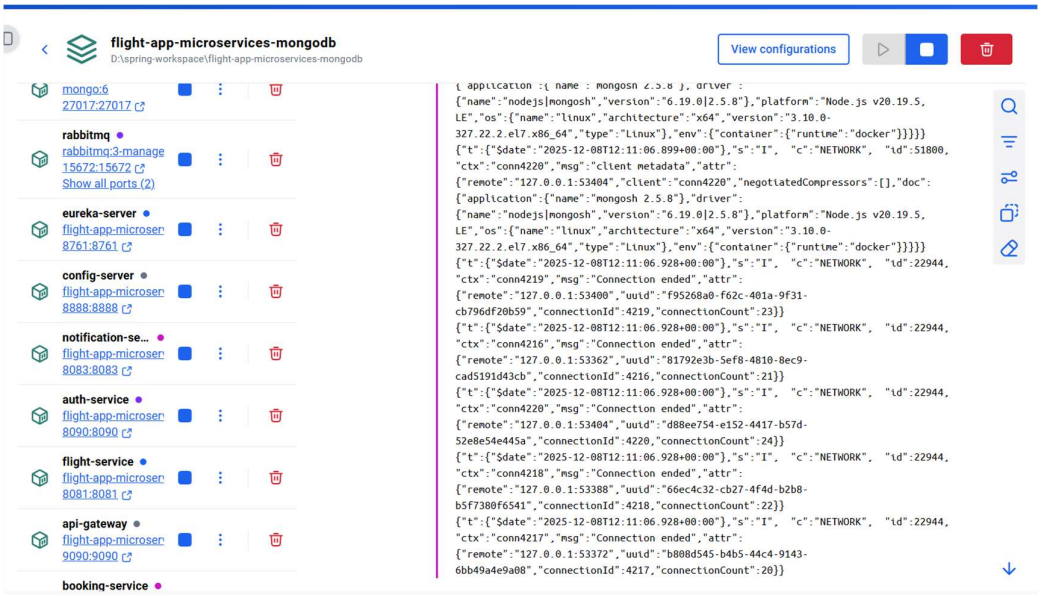


Eureka Dashboard



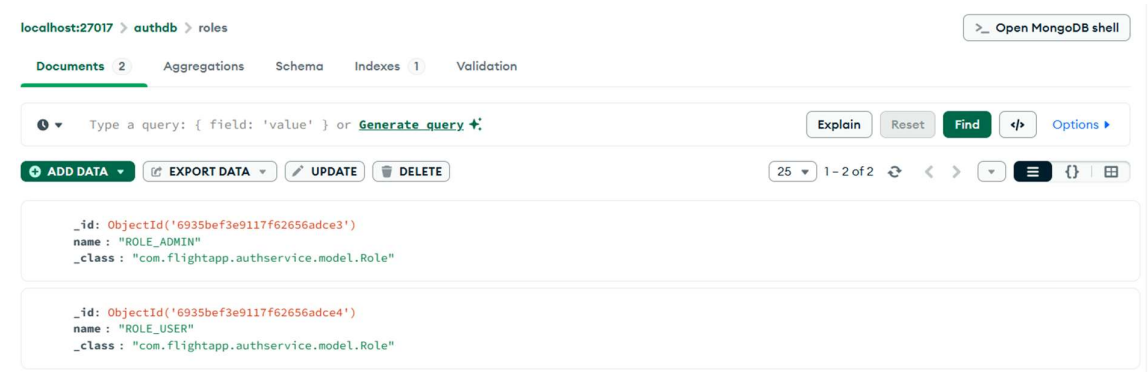
Docker



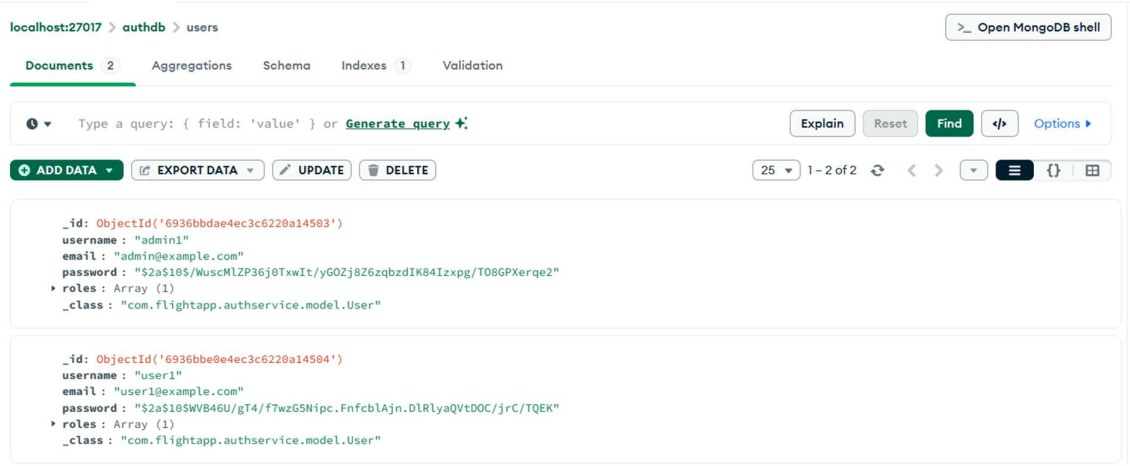


MongoDB Screenshots

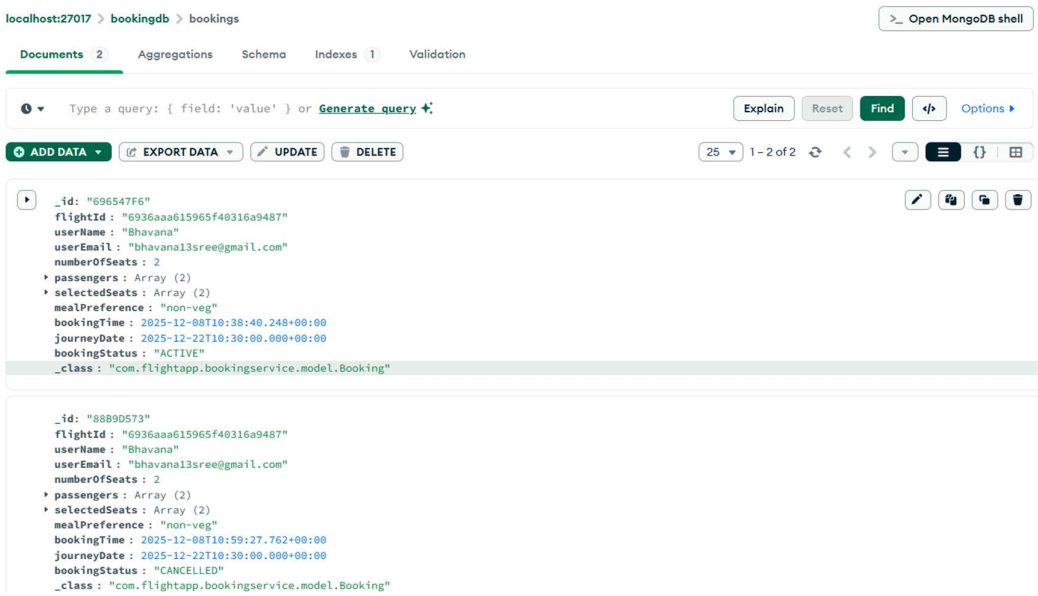
- Roles in authdb



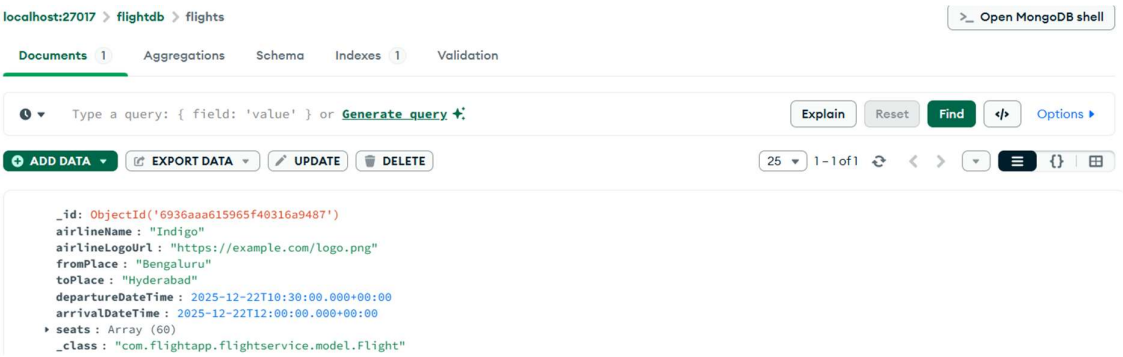
- Users in authdb



- Bookings in bookingdb

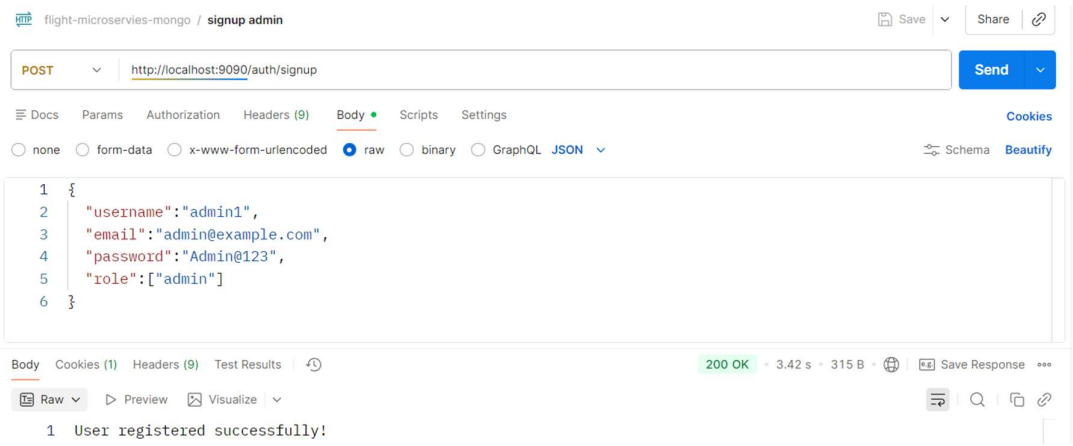


- Flights in flightdb

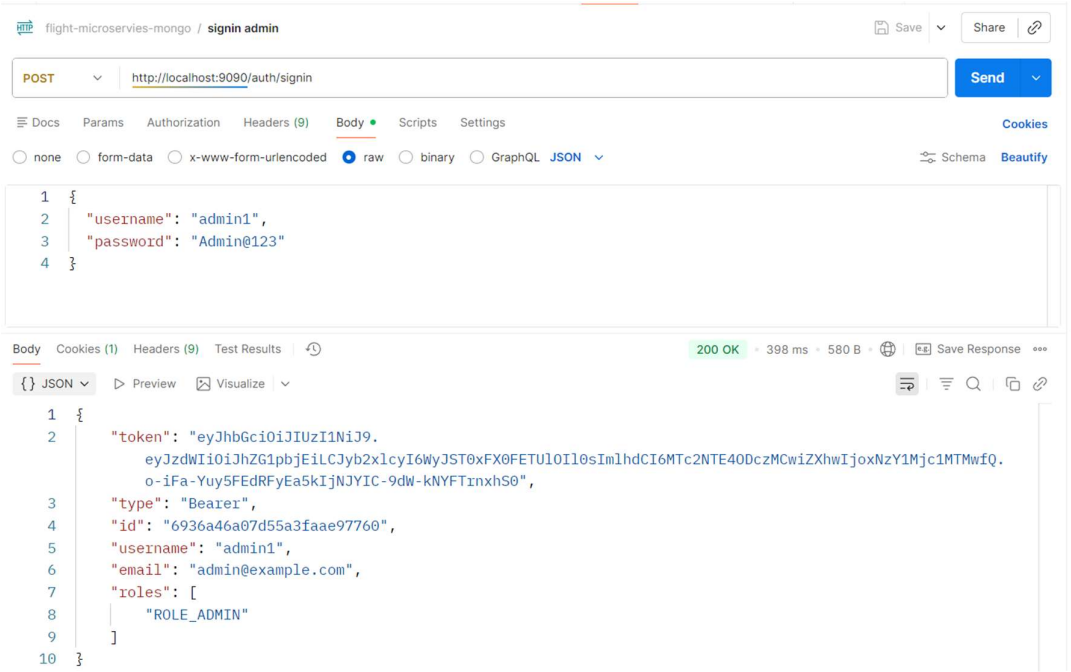


Postman Screenshots

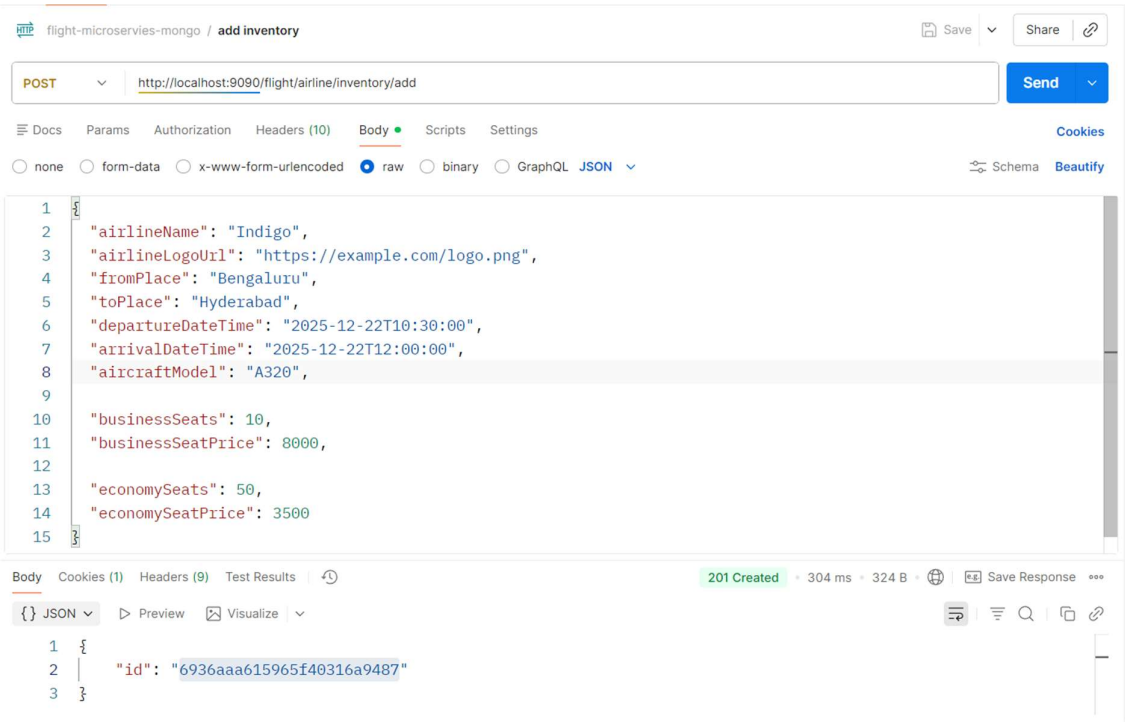
- Admin signup



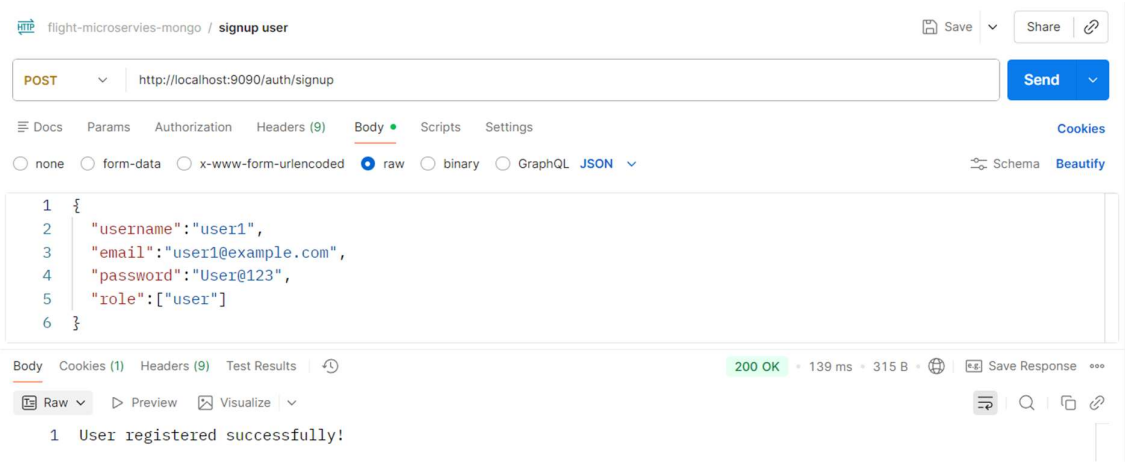
- Admin sign in



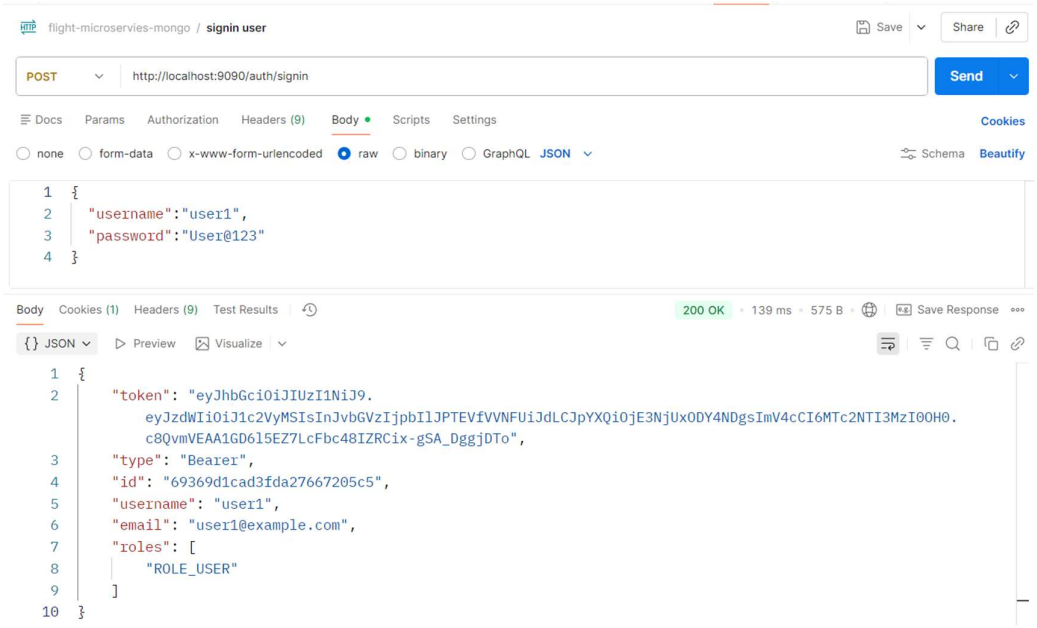
- Add Inventory – admin route



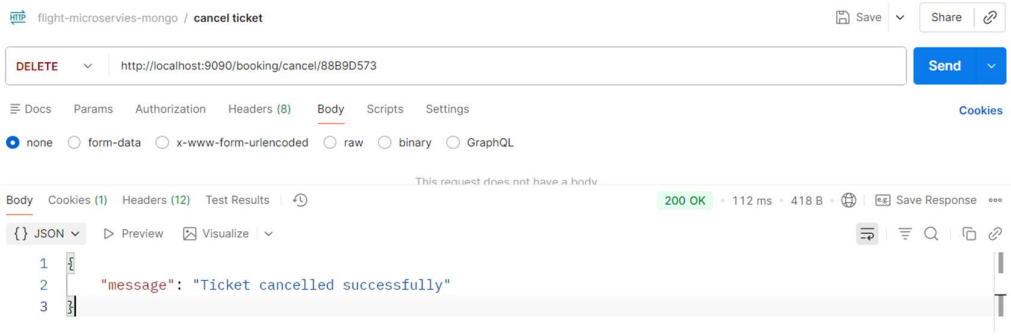
- User signup



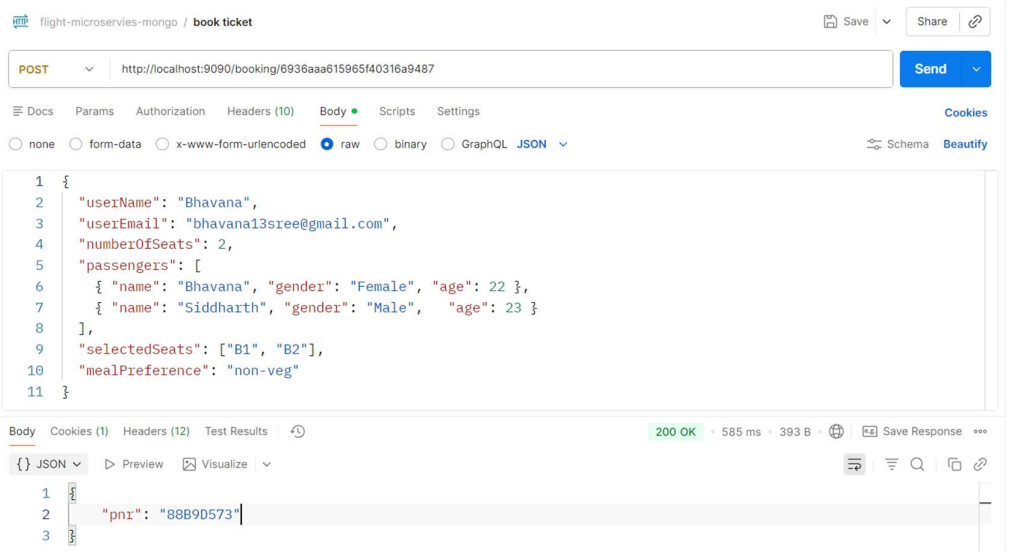
- User sign in



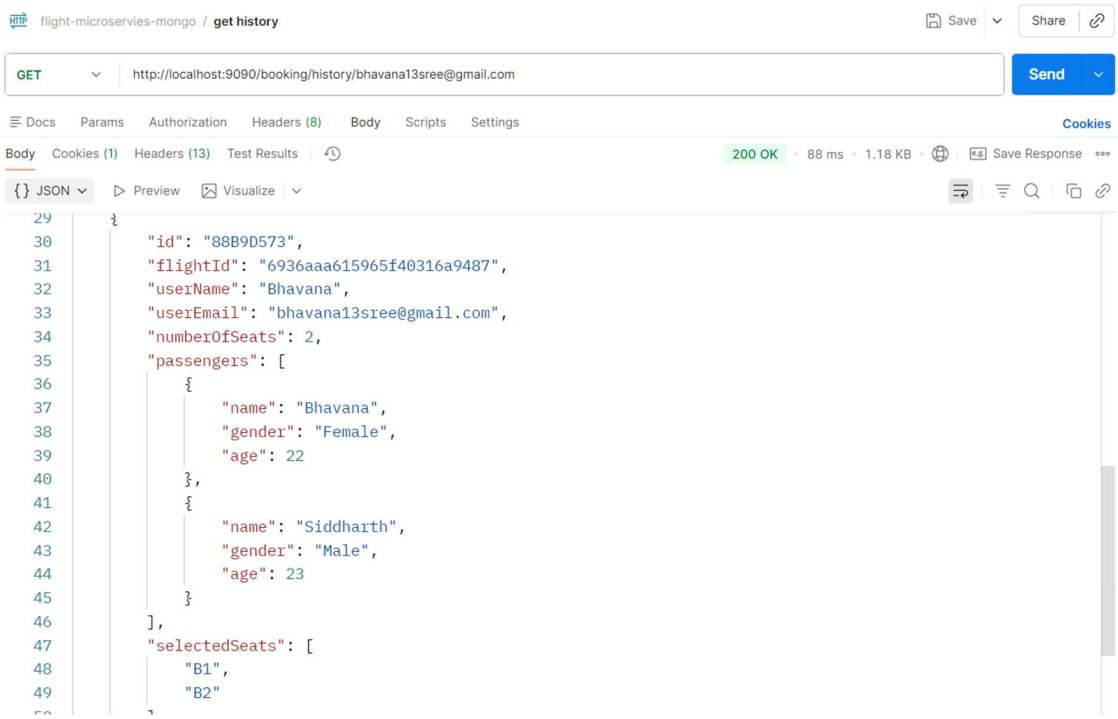
- Cancel ticket – user route



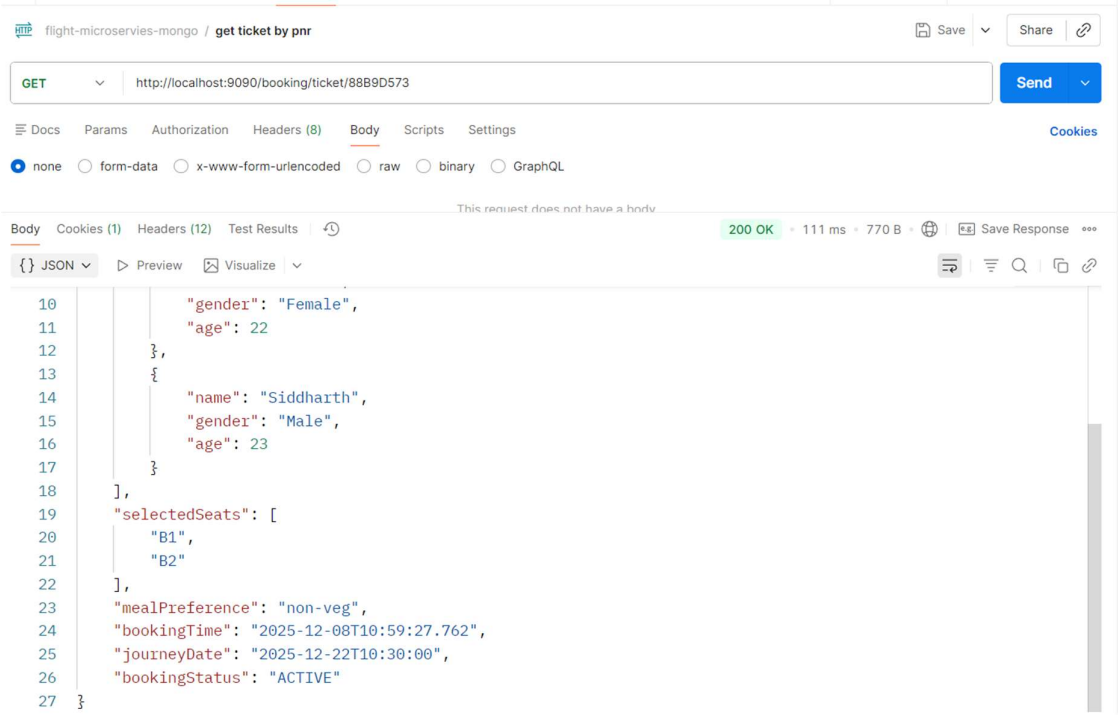
- Book flight – user route



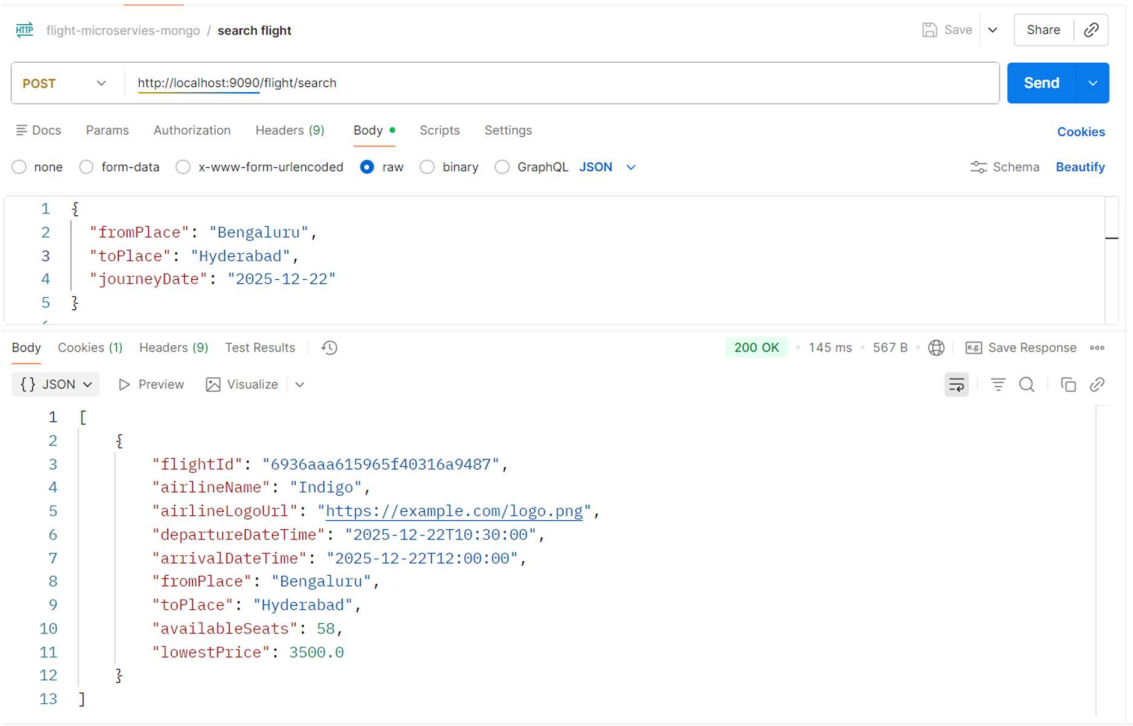
- Get history using email – user route



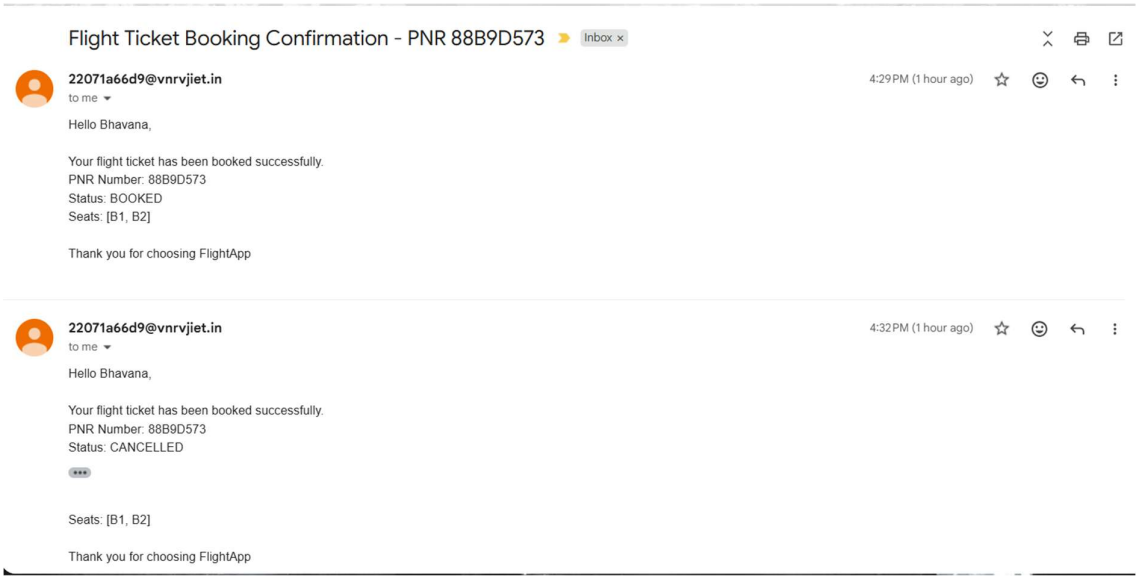
- Get ticket by PNR – user route



- Search Flight – user route



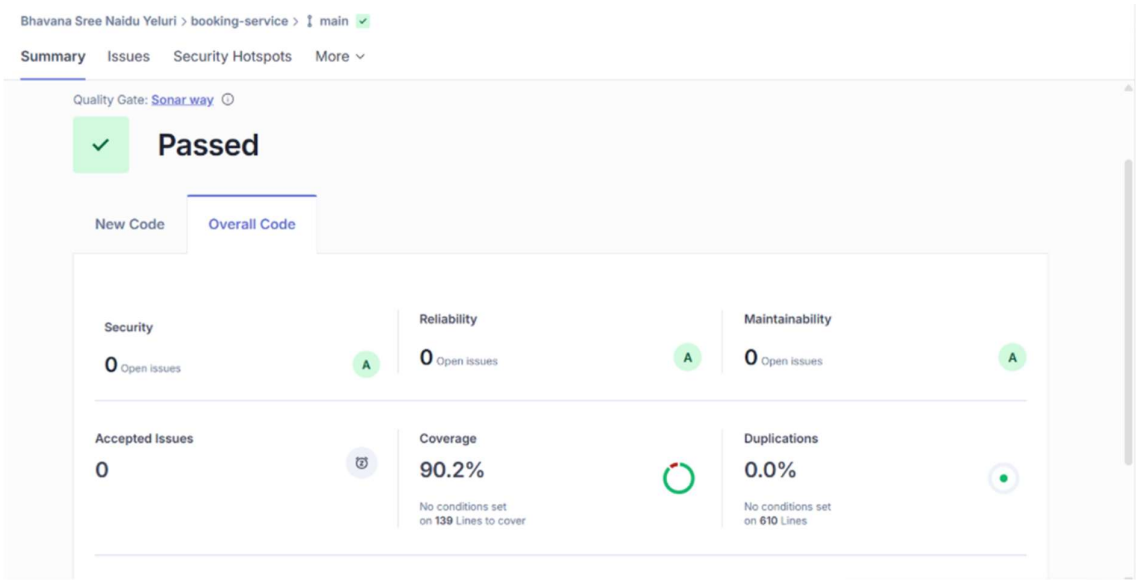
Email Notification



Message broker – RabbitMQ

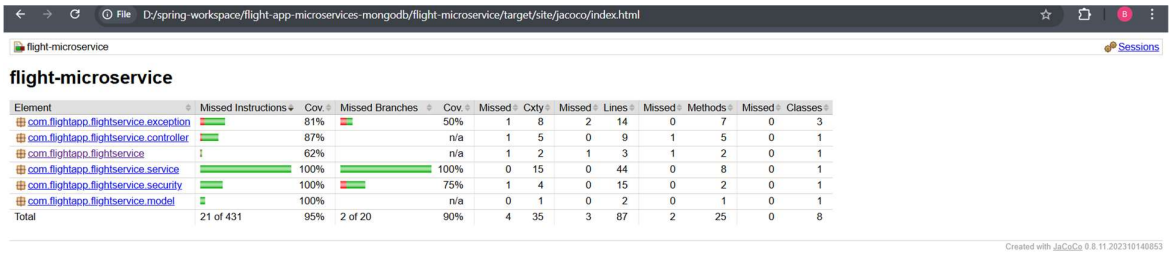
```
Booking Notification Received:
User: Bhavana
Email: bhavana@gmail.com
PNR: 0EE5A502
Flight: 6933126926e290a752340073
Status: BOOKED
Seats: [B7, B8]

Cancellation Notification Received:
PNR: 0EE5A502
Email: bhavana@gmail.com
Flight: 6933126926e290a752340073
Status: CANCELLED
Seats: [B7, B8]
```

Sonarqube

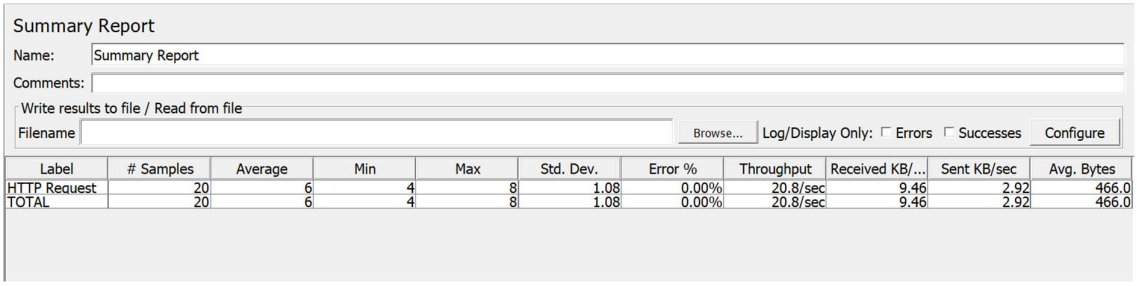


Jacoco

- **95% coverage**



Jmeter



Summary Report

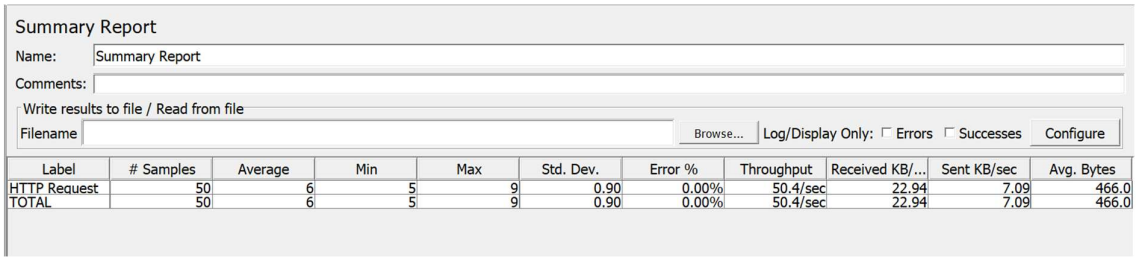
Name: Summary Report

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	6	4	8	1.08	0.00%	20.8/sec	9.46	2.92	466.0
TOTAL	20	6	4	8	1.08	0.00%	20.8/sec	9.46	2.92	466.0



Summary Report

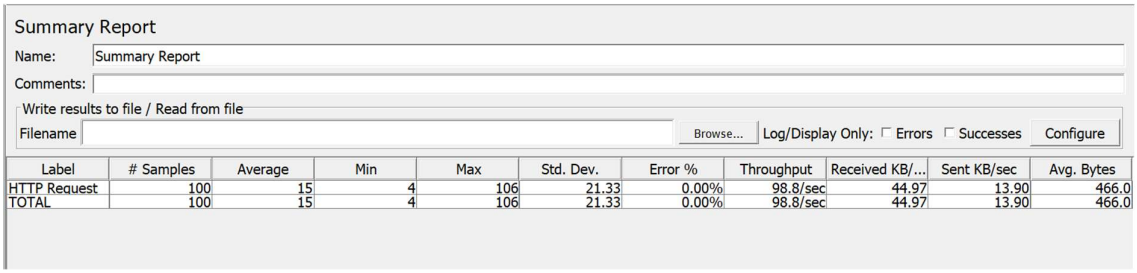
Name: Summary Report

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	6	5	9	0.90	0.00%	50.4/sec	22.94	7.09	466.0
TOTAL	50	6	5	9	0.90	0.00%	50.4/sec	22.94	7.09	466.0



Summary Report

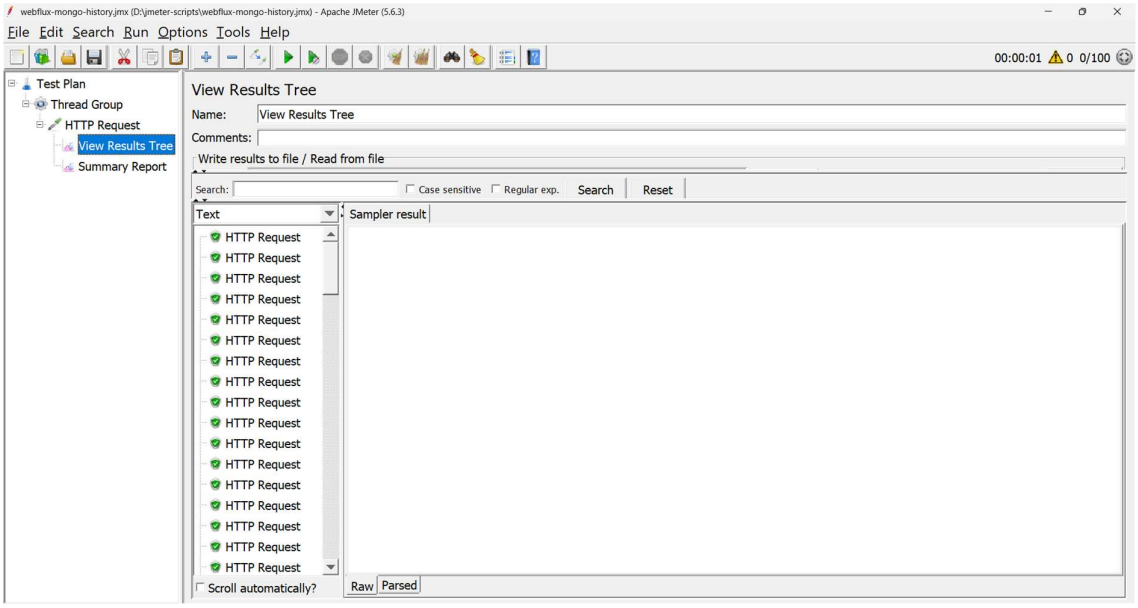
Name: Summary Report

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	15	4	106	21.33	0.00%	98.8/sec	44.97	13.90	466.0
TOTAL	100	15	4	106	21.33	0.00%	98.8/sec	44.97	13.90	466.0



Newman

```
newman

Booking-service(micro)

→ book ticket
  POST http://localhost:8082/api/flight/booking/2 [201 Created, 478B, 138ms]

→ search by pnr
  GET http://localhost:8082/api/flight/ticket/106A56B0 [200 OK, 496B, 112ms]

→ search by email
  GET http://localhost:8082/api/flight/booking/history/alice@example.com [200 OK, 1.04kB, 14ms]

→ New Request
  DELETE http://localhost:8082/api/flight/booking/cancel/106A56B0 [200 OK, 246B, 9ms]

┌─────────────────────────┬──────────┬──────────┐
│                         │ executed │   failed │
├─────────────────────────┼──────────┼──────────┤
│              iterations │        1 │        0 │
├─────────────────────────┼──────────┼──────────┤
│                requests │        4 │        0 │
├─────────────────────────┼──────────┼──────────┤
│            test-scripts │        0 │        0 │
├─────────────────────────┼──────────┼──────────┤
│      prerequest-scripts │        0 │        0 │
├─────────────────────────┼──────────┼──────────┤
│              assertions │        0 │        0 │
├─────────────────────────┴──────────┴──────────┤
│ total run duration: 311ms                     │
├───────────────────────────────────────────────┤
│ total data received: 1.5kB (approx)           │
├───────────────────────────────────────────────┤
│ average response time: 68ms [min: 9ms, max: 138ms, s.d.: 57ms] │
└───────────────────────────────────────────────┘
```

```
newman

API-Gateway(Flight-micro)

→ search flights
  POST http://localhost:8081/FLIGHT-SERVICE/api/flights/search [201 Created, 338B, 402ms]

→ get by pnr
  GET http://localhost:8081/BOOKING-SERVICE/api/flight/ticket/106A56B0 [200 OK, 448B, 57ms]

→ Book ticket
  POST http://localhost:8081/BOOKING-SERVICE/api/flight/booking/2 [201 Created, 429B, 49ms]

┌─────────────────────────┬──────────┬──────────┐
│                         │ executed │   failed │
├─────────────────────────┼──────────┼──────────┤
│              iterations │        1 │        0 │
├─────────────────────────┼──────────┼──────────┤
│                requests │        3 │        0 │
├─────────────────────────┼──────────┼──────────┤
│            test-scripts │        0 │        0 │
├─────────────────────────┼──────────┼──────────┤
│      prerequest-scripts │        0 │        0 │
├─────────────────────────┼──────────┼──────────┤
│              assertions │        0 │        0 │
├─────────────────────────┴──────────┴──────────┤
│ total run duration: 538ms                     │
├───────────────────────────────────────────────┤
│ total data received: 795B (approx)            │
├───────────────────────────────────────────────┤
│ average response time: 169ms [min: 49ms, max: 402ms, s.d.: 164ms] │
└───────────────────────────────────────────────┘
```

Newman Report

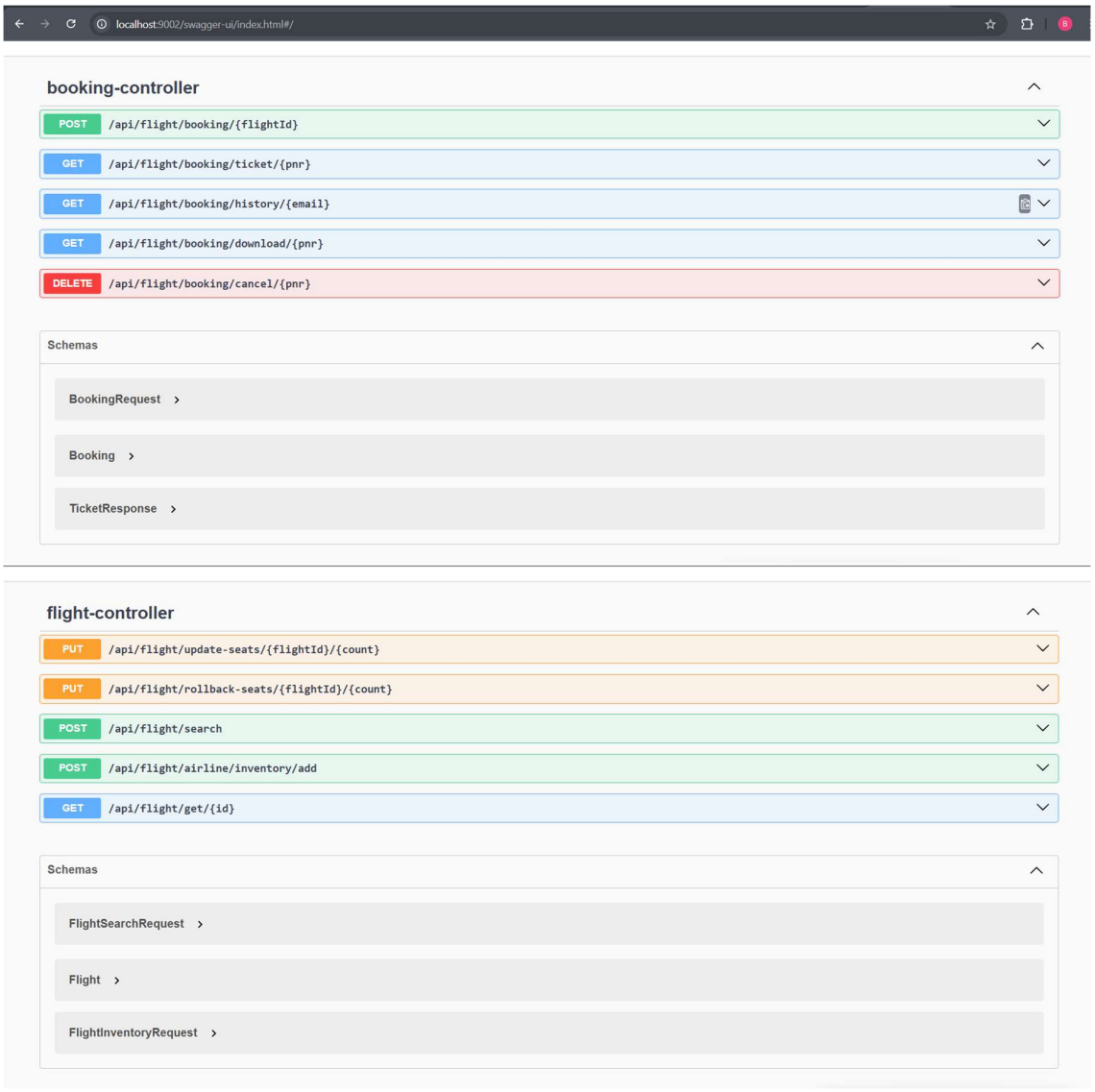
Collection	flight-microservices
Time	Tue Dec 02 2025 01:08:55 GMT+0530 (India Standard Time)
Exported with	Newman v6.2.1

	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**

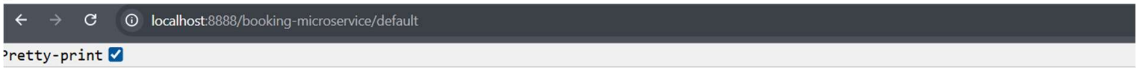
Swagger


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

Config Server

Pretty-print


```
{
  "name": "notification-microservice",
  "profiles": [
    "default"
  ],
  "label": null,
  "version": "e482c88225bd928d6d2a073e82802fba56e186c1",
  "state": "",
  "propertySources": [
    {
      "name": "https://github.com/bhavana1312/config-server-microservices/notification-microservice.properties",
      "source": {
        "server.port": "8083",
        "spring.rabbitmq.host": "localhost",
        "spring.rabbitmq.port": "5672",
        "spring.rabbitmq.username": "guest",
        "spring.rabbitmq.password": "guest",
        "spring.mail.host": "smtp.gmail.com",
        "spring.mail.port": "587",
        "spring.mail.username": "${MAIL_USERNAME}",
        "spring.mail.password": "${MAIL_PASSWORD}",
        "spring.mail.properties.mail.smtp.auth": "true",
        "spring.mail.properties.mail.smtp.starttls.enable": "true",
        "spring.mail.properties.mail.smtp.connectiontimeout": "5000",
        "spring.mail.properties.mail.smtp.timeout": "5000",
        "spring.mail.properties.mail.smtp.writetimeout": "5000"
      }
    }
  ]
}
```

Pretty-print


```
{
  "name": "booking-microservice",
  "profiles": [
    "default"
  ],
  "label": null,
  "version": "e482c88225bd928d6d2a073e82802fba56e186c1",
  "state": "",
  "propertySources": [
    {
      "name": "https://github.com/bhavana1312/config-server-microservices/booking-microservice.properties",
      "source": {
        "server.port": "8082",
        "spring.data.mongodb.uri": "mongodb://localhost:27017",
        "spring.data.mongodb.database": "bookingdb",
        "logging.level.com.flightapp.bookingservice.feign": "DEBUG",
        "spring.rabbitmq.host": "localhost",
        "spring.rabbitmq.port": "5672",
        "spring.rabbitmq.username": "guest",
        "spring.rabbitmq.password": "guest",
        "resilience4j.circuitbreaker.instances.flightServiceBreaker.register-health-indicator": "true",
        "resilience4j.circuitbreaker.instances.flightServiceBreaker.sliding-window-size": "5",
        "resilience4j.circuitbreaker.instances.flightServiceBreaker.minimum-number-of-calls": "3",
        "resilience4j.circuitbreaker.instances.flightServiceBreaker.failure-rate-threshold": "50",
        "resilience4j.circuitbreaker.instances.flightServiceBreaker.wait-duration-in-open-state": "10s",
        "resilience4j.circuitbreaker.instances.flightServiceBreaker.permitted-number-of-calls-in-half-open-state": "2",
        "resilience4j.circuitbreaker.instances.flightServiceBreaker.automatic-transition-from-open-to-half-open-enabled": "true"
      }
    }
  ]
}
```

localhost:8888/flight-microservice/default

Pretty-print


```
{
  "name": "flight-microservice",
  "profiles": [
    "default"
  ],
  "label": null,
  "version": "e482c88225bd928d6d2a073e82802fba56e186c1",
  "state": "",
  "propertySources": [
    {
      "name": "https://github.com/bhavana1312/config-server-microservices/flight-microservice.properties",
      "source": {
        "server.port": "8081",
        "spring.mongodb.uri": "mongodb://localhost:27017/flightdb",
        "logging.level.org.springframework": "INFO",
        "spring.mvc.throw-exception-if-no-handler-found": "true",
        "spring.web.resources.add-mappings": "false"
      }
    }
  ]
}
```


localhost:8888/api-gateway/default

Pretty-print


```
{
  "name": "api-gateway",
  "profiles": [
    "default"
  ],
  "label": null,
  "version": "e482c88225bd928d6d2a073e82802fba56e186c1",
  "state": "",
  "propertySources": []
}
```


config-server-microservices Public

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booking-microservice.properties	Update booking-microservice.properties	5 hours ago
flight-microservice.properties	Update flight-microservice.properties	9 hours ago
notification-microservice.properties	Update notification-microservice.properties	4 hours ago