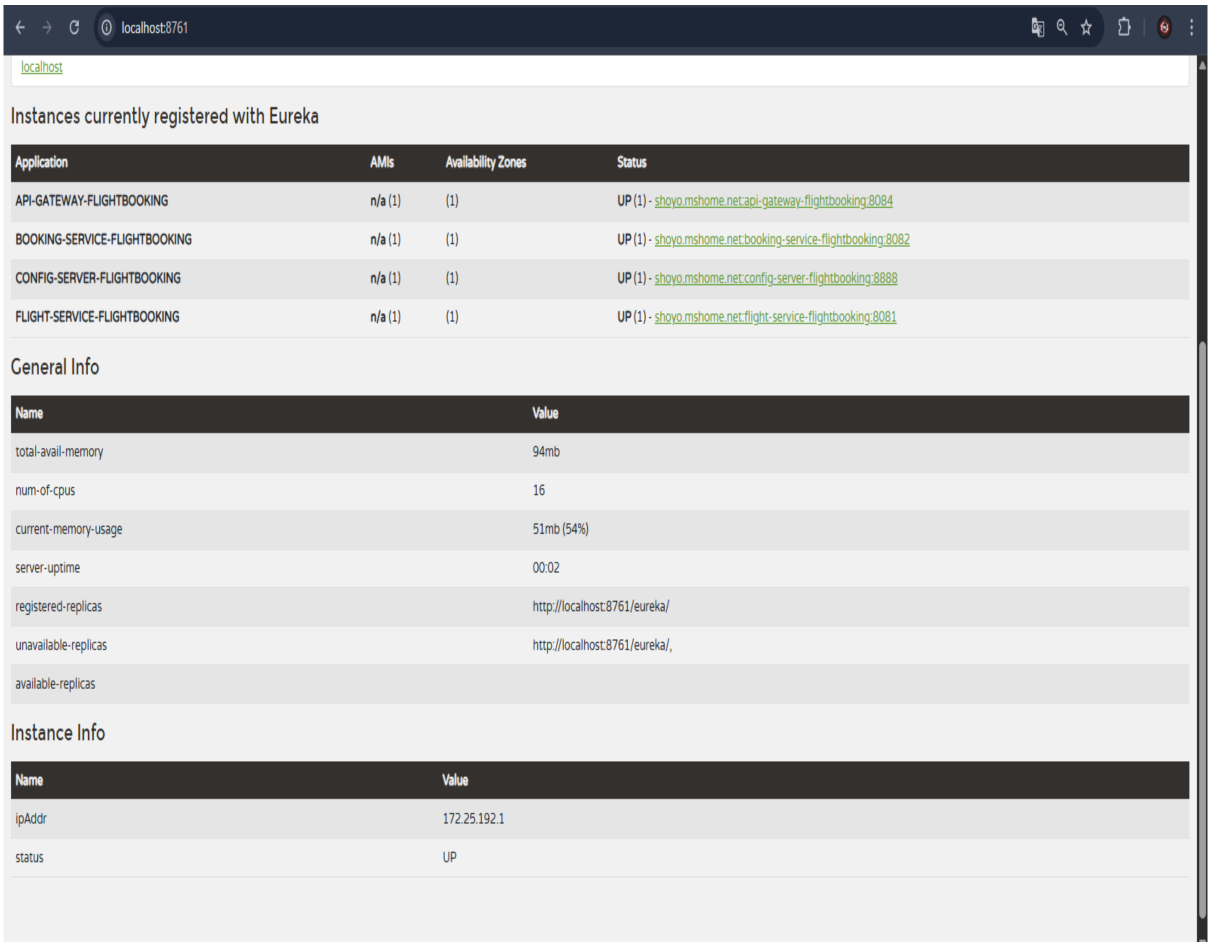
Flightbooking using Micorservices

Eureka server :

http://localhost:8761



Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
API-GATEWAY-FLIGHTBOOKING	n/a (1)	(1)	UP (1) - shoyo.mshome.net:api-gateway-flightbooking:8084
BOOKING-SERVICE-FLIGHTBOOKING	n/a (1)	(1)	UP (1) - shoyo.mshome.net:booking-service-flightbooking:8082
CONFIG-SERVER-FLIGHTBOOKING	n/a (1)	(1)	UP (1) - shoyo.mshome.net:config-server-flightbooking:8888
FLIGHT-SERVICE-FLIGHTBOOKING	n/a (1)	(1)	UP (1) - shoyo.mshome.net:flight-service-flightbooking:8081

General Info

Name	Value
total-avail-memory	94mb
num-of-cpus	16
current-memory-usage	51mb (54%)
server-uptime	00:02
registered-replicas	http://localhost:8761/eureka/
unavailable-replicas	http://localhost:8761/eureka/,
available-replicas	

Instance Info

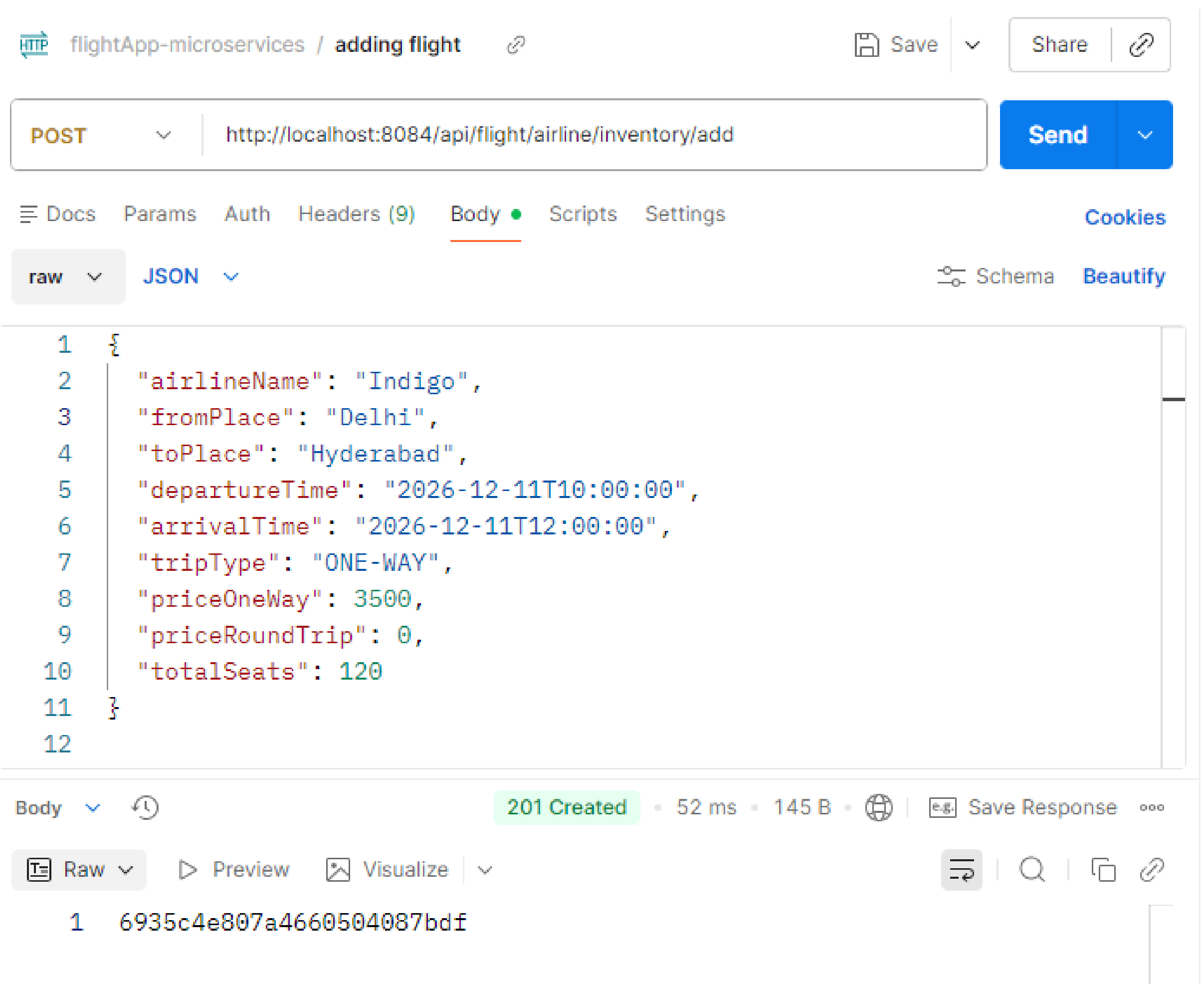
Name	Value
ipAddr	172.25.192.1
status	UP

Postman :

Using api gateway- port-8084

Using mongoDb

Add inventory:



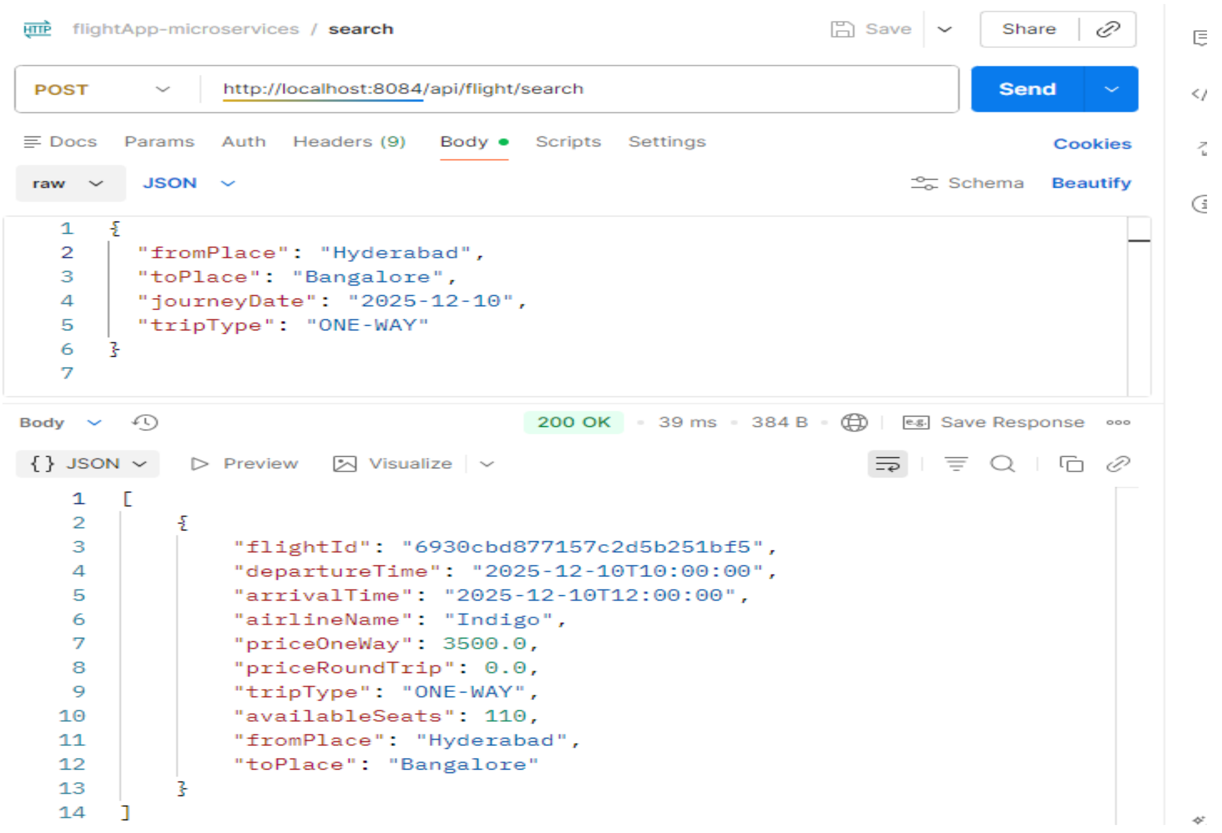
POST http://localhost:8084/api/flight/airline/inventory/add

```
{
  "airlineName": "Indigo",
  "fromPlace": "Delhi",
  "toPlace": "Hyderabad",
  "departureTime": "2026-12-11T10:00:00",
  "arrivalTime": "2026-12-11T12:00:00",
  "tripType": "ONE-WAY",
  "priceOneWay": 3500,
  "priceRoundTrip": 0,
  "totalSeats": 120
}
```

201 Created • 52 ms • 145 B

```
6935c4e807a4660504087bdf
```

Search flights:



POST http://localhost:8084/api/flight/search

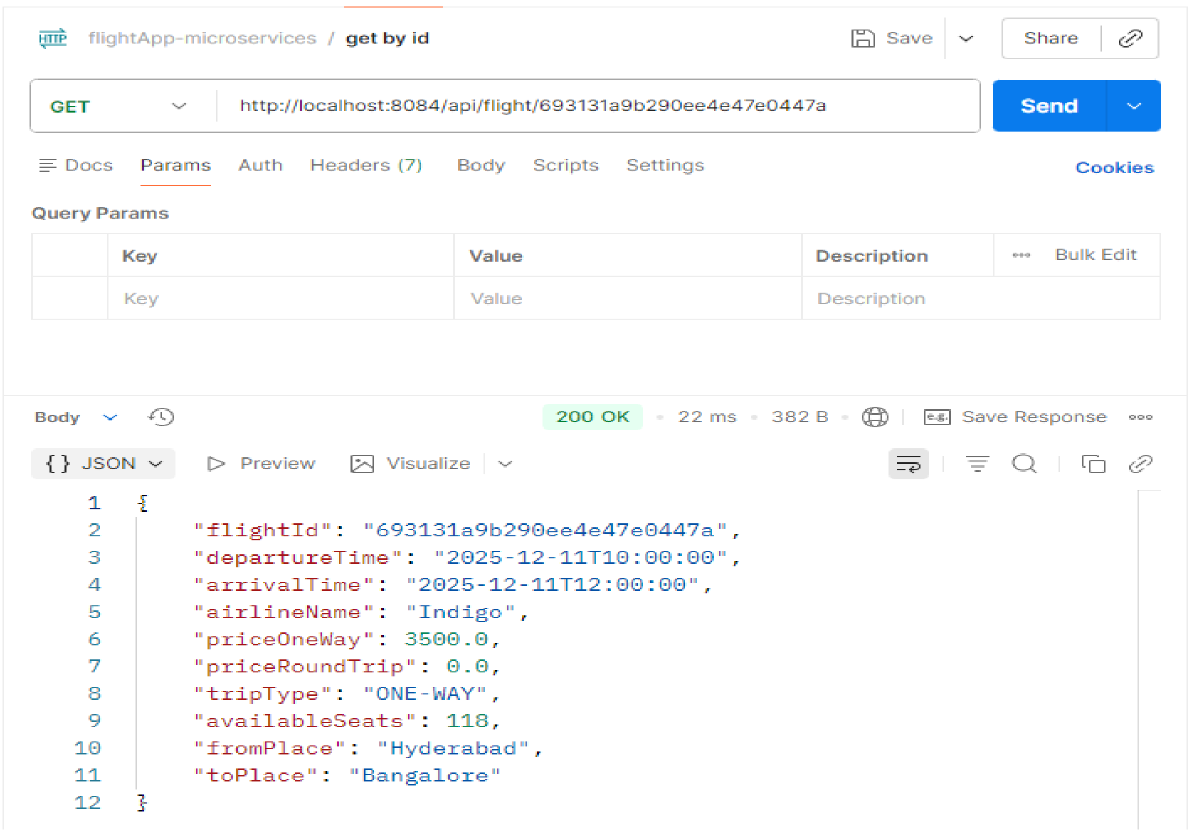
Body: JSON

```
{
  "fromPlace": "Hyderabad",
  "toPlace": "Bangalore",
  "journeyDate": "2025-12-10",
  "tripType": "ONE-WAY"
}
```

200 OK • 39 ms • 384 B

```
[
    {
        "flightId": "6930cbd877157c2d5b251bf5",
        "departureTime": "2025-12-10T10:00:00",
        "arrivalTime": "2025-12-10T12:00:00",
        "airlineName": "Indigo",
        "priceOneWay": 3500.0,
        "priceRoundTrip": 0.0,
        "tripType": "ONE-WAY",
        "availableSeats": 110,
        "fromPlace": "Hyderabad",
        "toPlace": "Bangalore"
    }
]
```

Get flight using id:



GET http://localhost:8084/api/flight/693131a9b290ee4e47e0447a

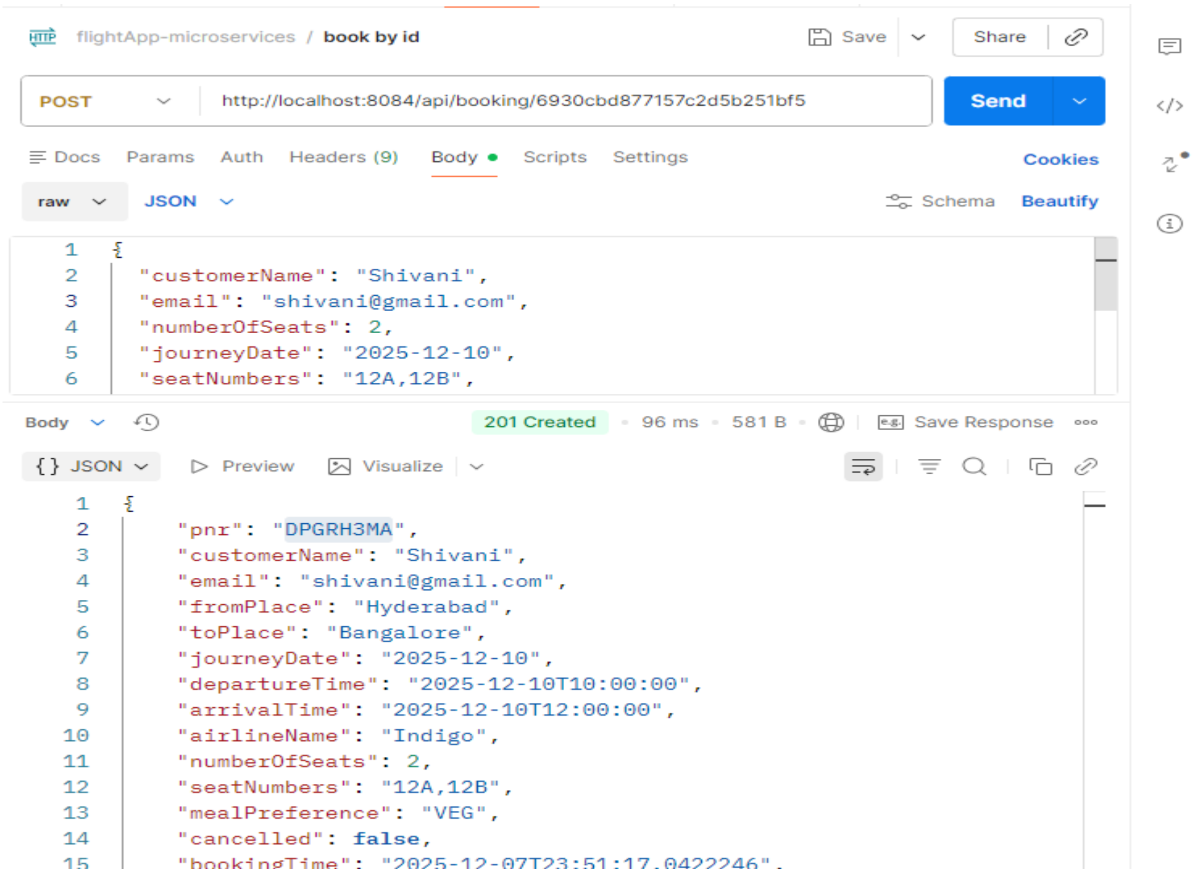
Query Params

	Key	Value	Description
	Key	Value	Description

200 OK • 22 ms • 382 B

```
{
    "flightId": "693131a9b290ee4e47e0447a",
    "departureTime": "2025-12-11T10:00:00",
    "arrivalTime": "2025-12-11T12:00:00",
    "airlineName": "Indigo",
    "priceOneWay": 3500.0,
    "priceRoundTrip": 0.0,
    "tripType": "ONE-WAY",
    "availableSeats": 118,
    "fromPlace": "Hyderabad",
    "toPlace": "Bangalore"
}
```

Booking using id:


flightApp-microservices / book by id
Save
Share
Send
Docs Params Auth Headers (9) Body Scripts Settings
Cookies
raw JSON
Schema Beautify
Body
Save Response
{} JSON Preview Visualize

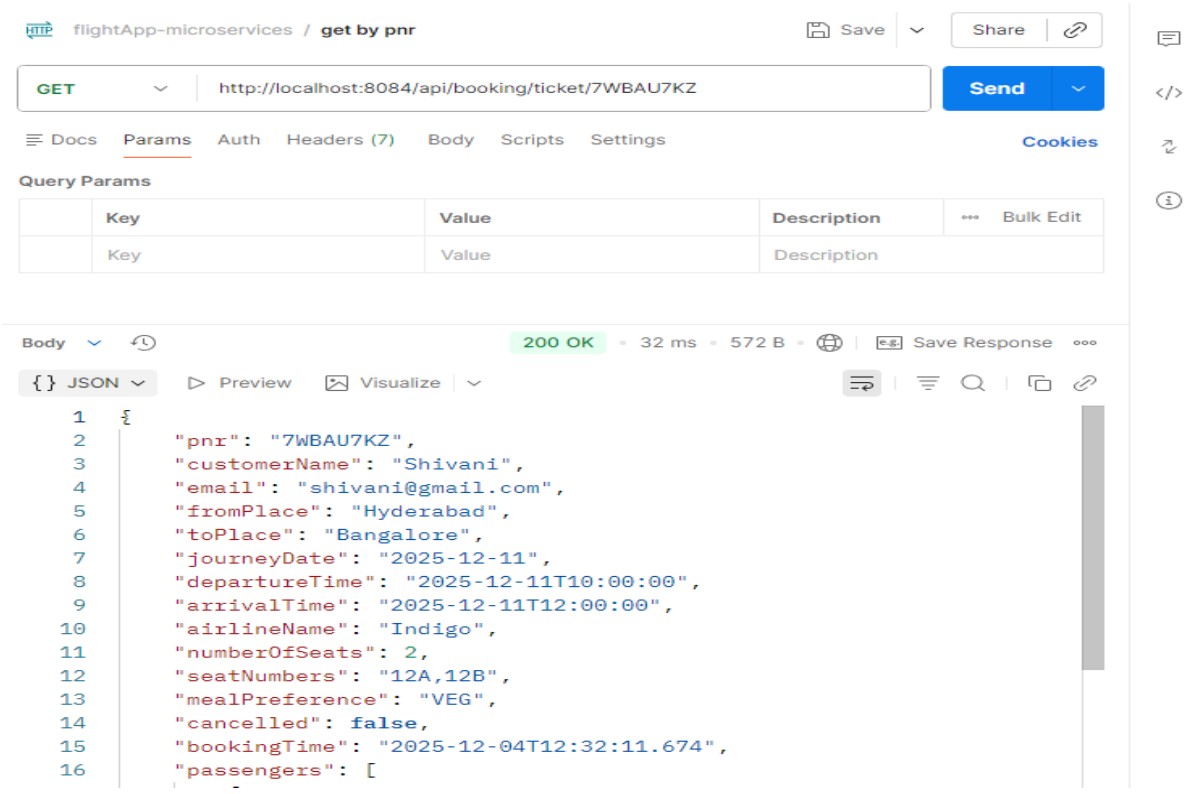
POST http://localhost:8084/api/booking/6930cbd877157c2d5b251bf5

```
{
  "customerName": "Shivani",
  "email": "shivani@gmail.com",
  "numberOfSeats": 2,
  "journeyDate": "2025-12-10",
  "seatNumbers": "12A,12B",
```

201 Created • 96 ms • 581 B

```
{
    "pnr": "DPGRH3MA",
    "customerName": "Shivani",
    "email": "shivani@gmail.com",
    "fromPlace": "Hyderabad",
    "toPlace": "Bangalore",
    "journeyDate": "2025-12-10",
    "departureTime": "2025-12-10T10:00:00",
    "arrivalTime": "2025-12-10T12:00:00",
    "airlineName": "Indigo",
    "numberOfSeats": 2,
    "seatNumbers": "12A,12B",
    "mealPreference": "VEG",
    "cancelled": false,
    "bookingTime": "2025-12-07T23:51:17.0422246",
```

Get ticket by pnr :


flightApp-microservices / get by pnr
Save
Share
Send
Docs Params Auth Headers (7) Body Scripts Settings
Cookies
Query Params
Bulk Edit
Body
Save Response
{} JSON Preview Visualize

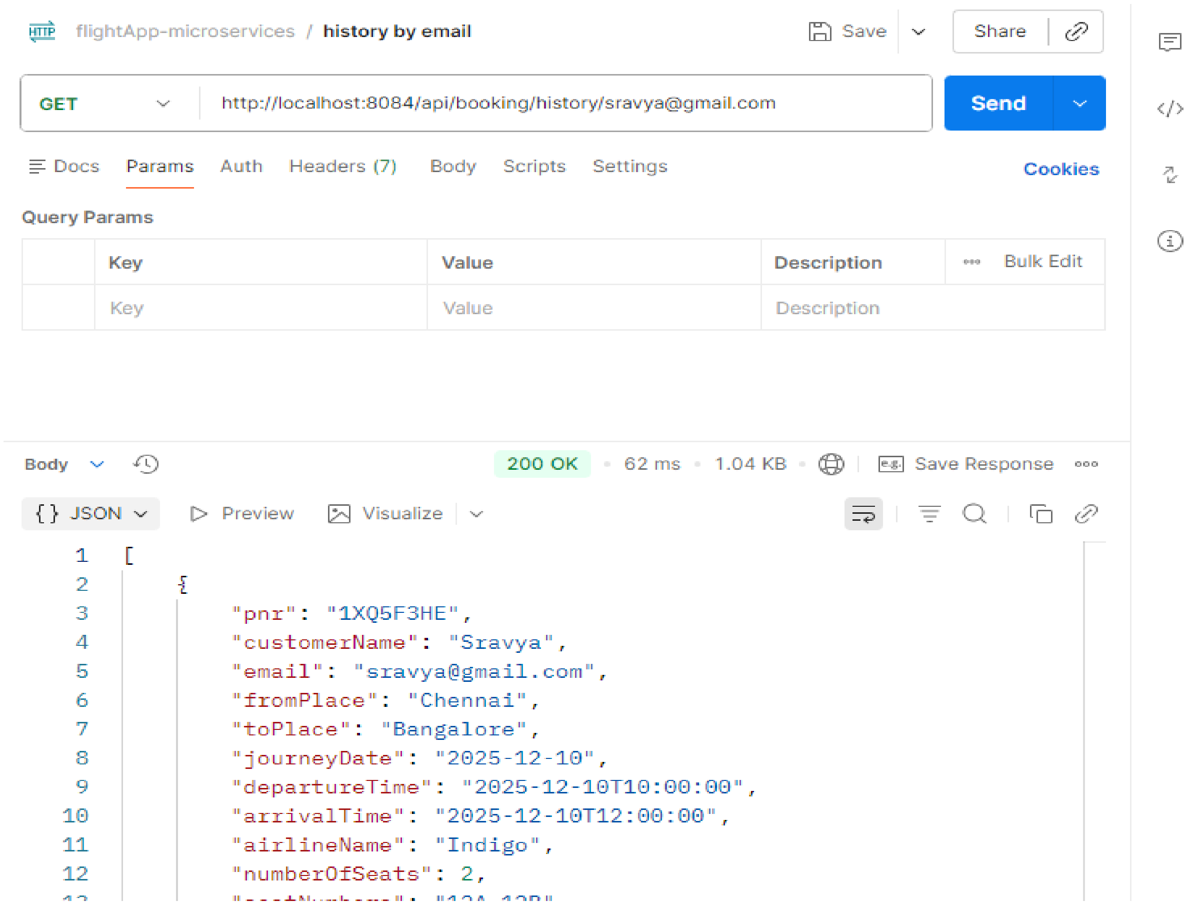
GET http://localhost:8084/api/booking/ticket/7WBAU7KZ

	Key	Value	Description
	Key	Value	Description

200 OK • 32 ms • 572 B

```
{
    "pnr": "7WBAU7KZ",
    "customerName": "Shivani",
    "email": "shivani@gmail.com",
    "fromPlace": "Hyderabad",
    "toPlace": "Bangalore",
    "journeyDate": "2025-12-11",
    "departureTime": "2025-12-11T10:00:00",
    "arrivalTime": "2025-12-11T12:00:00",
    "airlineName": "Indigo",
    "numberOfSeats": 2,
    "seatNumbers": "12A,12B",
    "mealPreference": "VEG",
    "cancelled": false,
    "bookingTime": "2025-12-04T12:32:11.674",
    "passengers": [
```

Get history by email:



GET http://localhost:8084/api/booking/history/sravya@gmail.com

Query Params

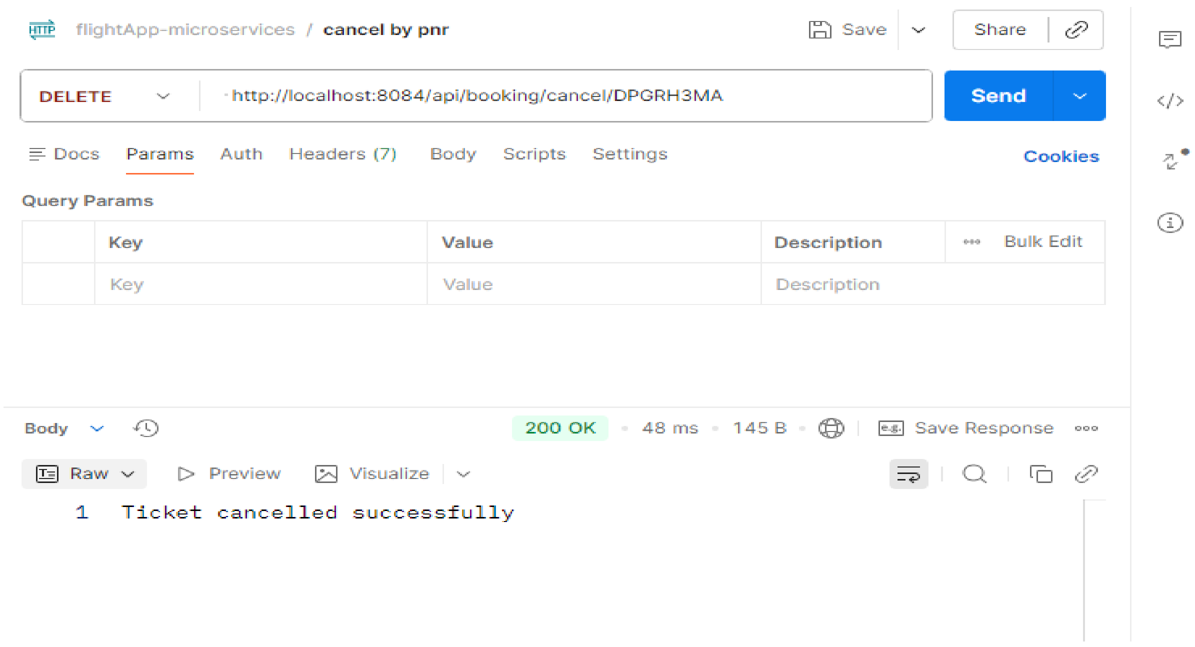
Key	Value	Description
Key	Value	Description

Body 200 OK • 62 ms • 1.04 KB

{} JSON

```
[
    {
        "pnr": "1XQ5F3HE",
        "customerName": "Sravya",
        "email": "sravya@gmail.com",
        "fromPlace": "Chennai",
        "toPlace": "Bangalore",
        "journeyDate": "2025-12-10",
        "departureTime": "2025-12-10T10:00:00",
        "arrivalTime": "2025-12-10T12:00:00",
        "airlineName": "Indigo",
        "numberOfSeats": 2,
```

Cancle by pnr:



DELETE http://localhost:8084/api/booking/cancel/DPGRH3MA

Query Params

Key	Value	Description
Key	Value	Description

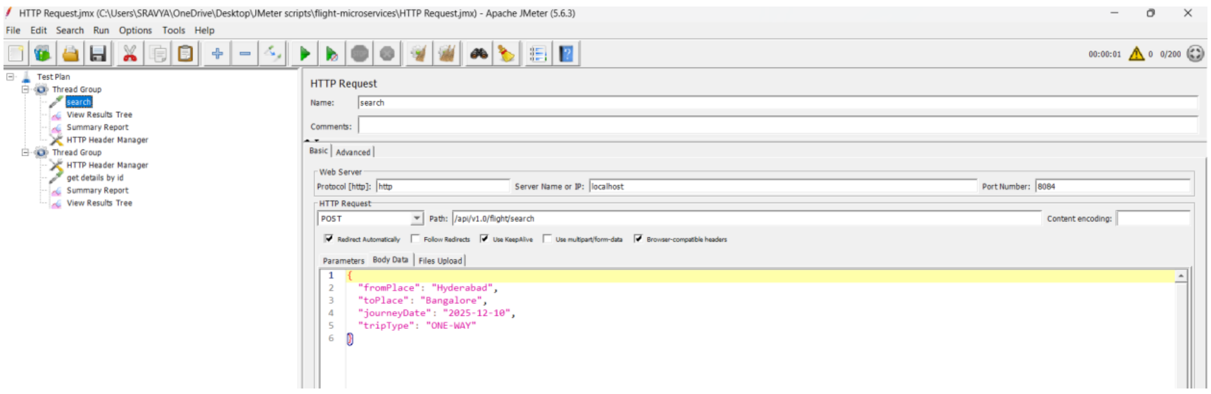
Body 200 OK • 48 ms • 145 B

Raw

```
Ticket cancelled successfully
```

Jmeter:

Search flights:



HTTP Request

Name: search

Comments:

Web Server

Protocol [http]: http Server Name or IP: localhost Port Number: 8084

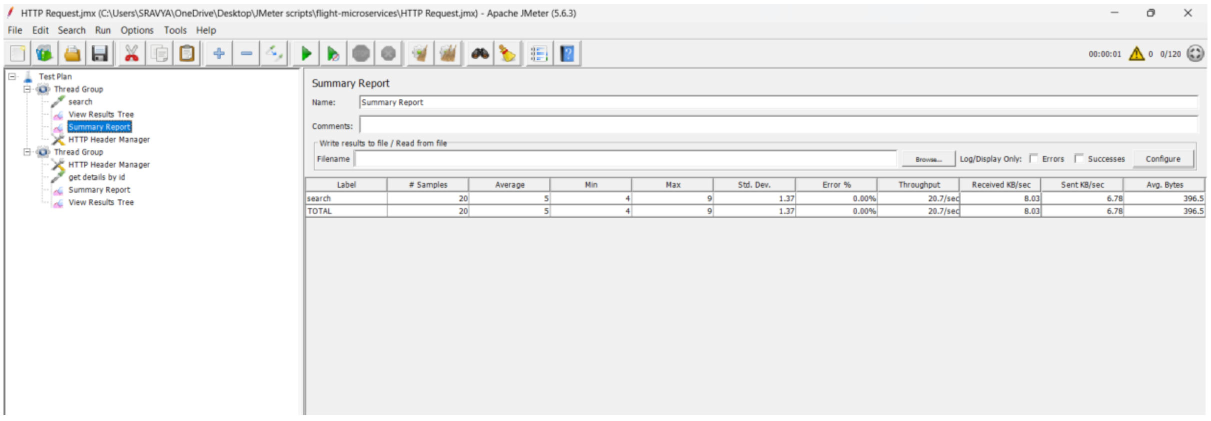
HTTP Request

POST Path: /api/v1.0/flight/search Content encoding:

[✓] Redirect Automatically [ ] Follow Redirects [✓] Use KeepAlive [ ] Use multipart/form-data [✓] Browser-compatible headers

```
{
  "fromPlace": "Hyderabad",
  "toPlace": "Bangalore",
  "journeyDate": "2025-12-10",
  "tripType": "ONE-WAY"
}
```

20 samples:



Summary Report

Name: Summary Report

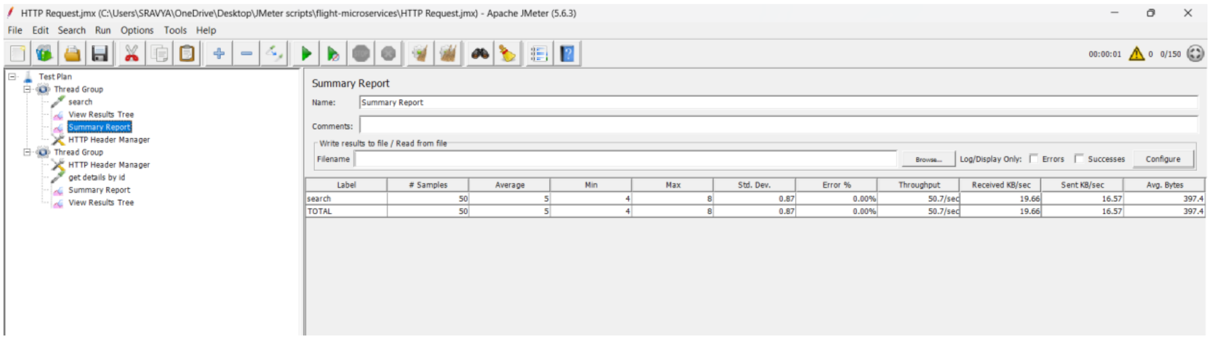
Comments:

Write results to file / Read from file

Filename Log/Display Only: [ ] Errors [ ] Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
search	20	5	4	9	1.37	0.00%	20.7/sec	8.03	6.78	396.5
TOTAL	20	5	4	9	1.37	0.00%	20.7/sec	8.03	6.78	396.5

50 samples:



Summary Report

Name: Summary Report

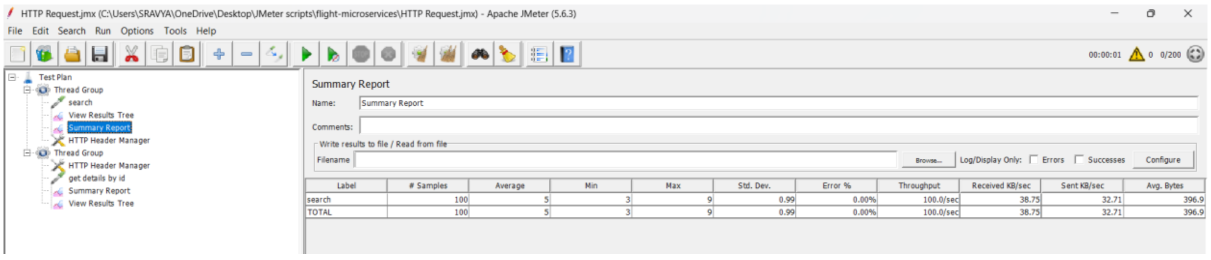
Comments:

Write results to file / Read from file

Filename Log/Display Only: [ ] Errors [ ] Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
search	50	5	4	8	0.87	0.00%	50.7/sec	19.66	16.57	397.4
TOTAL	50	5	4	8	0.87	0.00%	50.7/sec	19.66	16.57	397.4

100 samples:



Summary Report

Name: Summary Report

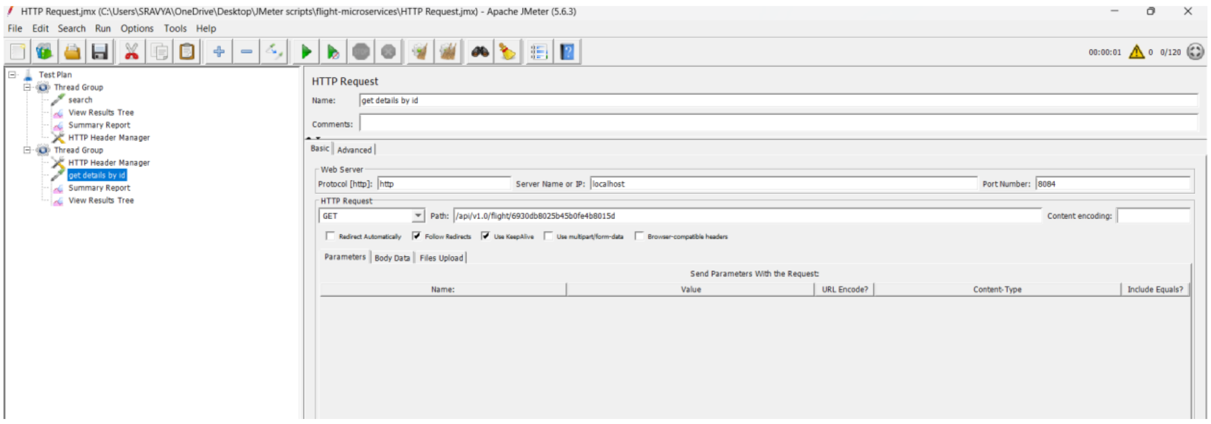
Comments:

Write results to file / Read from file

Filename Log/Display Only: [ ] Errors [ ] Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
search	100	5	3	9	0.99	0.00%	100.0/sec	38.75	32.71	396.9
TOTAL	100	5	3	9	0.99	0.00%	100.0/sec	38.75	32.71	396.9

Get flight detals by id:



HTTP Request.jmx (C:\Users\SRAVYA\OneDrive\Desktop\JMeter scripts\flight-microservices\HTTP Request.jmx) - Apache JMeter (5.6.3)

HTTP Request

Name: get details by id

Comments:

Web Server

Protocol [http]: http Server Name or IP: localhost Port Number: 8084

HTTP Request

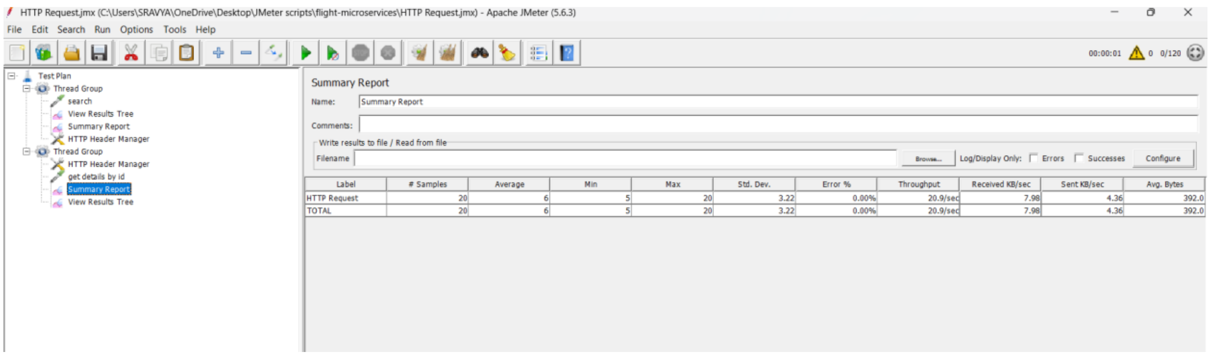
GET Path: /api/v1.0/flight/6930db8025b45b0fe4b8015d Content encoding:

☐ Redirect Automatically ☑ Follow Redirects ☑ Use KeepAlive ☐ Use multipart/form-data ☐ Browser-compatible headers

Send Parameters With the Request:

Name:	Value	URL Encode?	Content-Type	Include Equals?

20 samples:



HTTP Request.jmx (C:\Users\SRAVYA\OneDrive\Desktop\JMeter scripts\flight-microservices\HTTP Request.jmx) - Apache JMeter (5.6.3)

Summary Report

Name: Summary Report

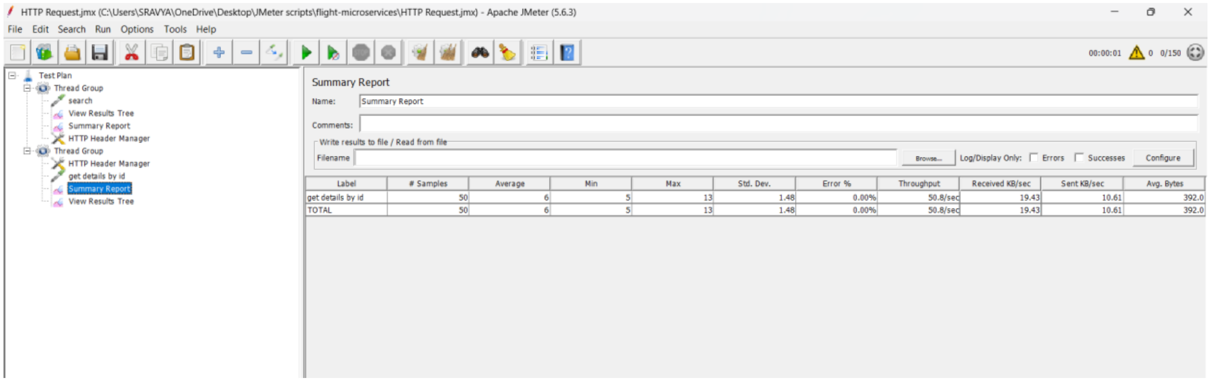
Comments:

Write results to file / Read from file

Filename Log/Display Only: ☐ Errors ☐ Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
HTTP Request	20	6	5	20	3.22	0.00%	20.9/sec	7.98	4.36	392.0
TOTAL	20	6	5	20	3.22	0.00%	20.9/sec	7.98	4.36	392.0

50 samples:



HTTP Request.jmx (C:\Users\SRAVYA\OneDrive\Desktop\JMeter scripts\flight-microservices\HTTP Request.jmx) - Apache JMeter (5.6.3)

Summary Report

Name: Summary Report

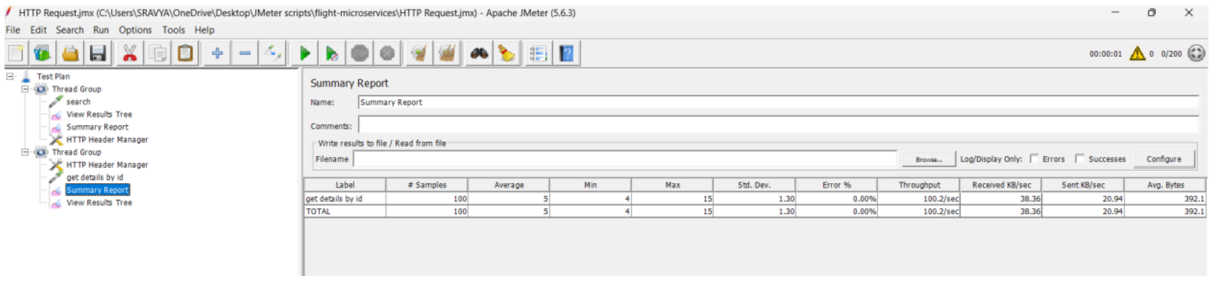
Comments:

Write results to file / Read from file

Filename Log/Display Only: ☐ Errors ☐ Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
get details by id	50	6	5	13	1.48	0.00%	50.8/sec	19.43	10.61	392.0
TOTAL	50	6	5	13	1.48	0.00%	50.8/sec	19.43	10.61	392.0

100 samples:



HTTP Request.jmx (C:\Users\SRAVYA\OneDrive\Desktop\JMeter scripts\flight-microservices\HTTP Request.jmx) - Apache JMeter (5.6.3)

Summary Report

Name: Summary Report

Comments:

Write results to file / Read from file

Filename Log/Display Only: ☐ Errors ☐ Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
get details by id	100	5	4	15	1.30	0.00%	100.2/sec	38.36	20.94	392.1
TOTAL	100	5	4	15	1.30	0.00%	100.2/sec	38.36	20.94	392.1