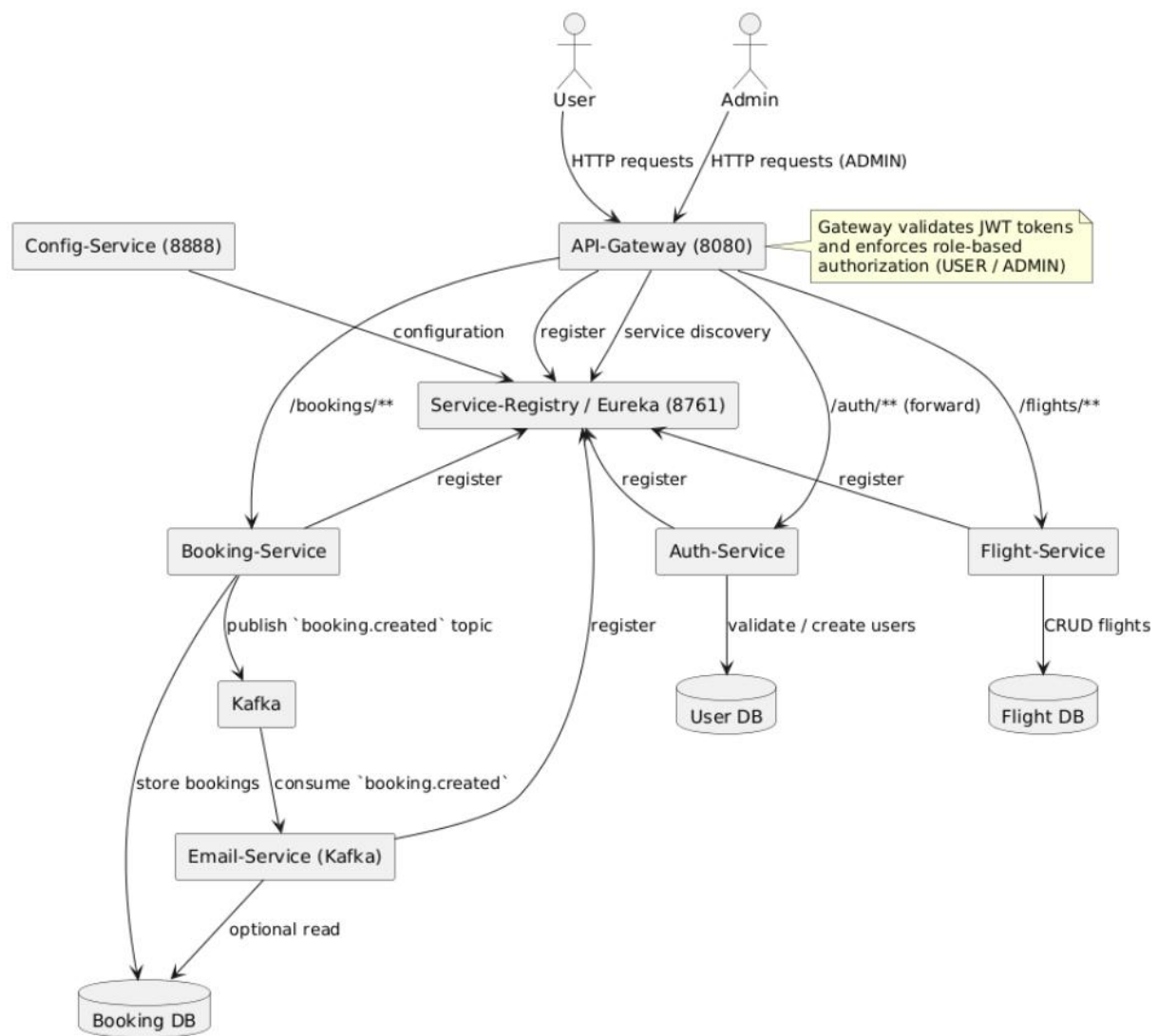


Architecture Diagram



Eureka screenshot

Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
API-GATEWAY	n/a (1)	(1)	UP (1) - host.docker.internal:api-gateway:8080
AUTH-SERVICE	n/a (1)	(1)	UP (1) - host.docker.internal:auth-service:8090
BOOKING-SERVICE	n/a (1)	(1)	UP (1) - host.docker.internal:booking-service:8082
FLIGHT-SERVICE	n/a (1)	(1)	UP (1) - host.docker.internal:flight-service:8081
EMAIL-SERVICE	n/a (1)	(1)	UP (1) - host.docker.internal:email-service:8083

Docker Running Screenshots

```
[+] Running 18/18
✔flightbookingwithdocker-booking-service      Built      0.0s
✔flightbookingwithdocker-config-server         Built      0.0s
✔flightbookingwithdocker-eureka-server         Built      0.0s
✔flightbookingwithdocker-auth-service          Built      0.0s
✔flightbookingwithdocker-email-service         Built      0.0s
✔flightbookingwithdocker-flight-service        Built      0.0s
✔flightbookingwithdocker-api-gateway           Built      0.0s
✔Container flightbookingwithdocker-zookeeper-1 Created    0.7s
✔Container booking-db                          Created    0.7s
✔Container flight-db                          Created    0.7s
✔Container config-server                      Created    0.7s
✔Container eureka-server                     Created    0.2s
✔Container flightbookingwithdocker-kafka-1     Created    0.4s
✔Container api-gateway                       Created    0.2s
✔Container flight-service                     Created    0.3s
✔Container auth-service                      Created    0.4s
✔Container booking-service                   Created    0.3s
✔Container email-service                     Created    0.3s
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
23152fa182fd	flightbookingwithdocker-email-service	"java -jar /app/app..."	34 seconds ago	Up 31 seconds	0.0.0.0:8085->8085/tcp, [::]:8085->8085/tcp	email-service
f5461b7f88ec	flightbookingwithdocker-api-gateway	"java -jar /app/app..."	34 seconds ago	Up 31 seconds	0.0.0.0:8080->8080/tcp, [::]:8080->8080/tcp	api-gateway
5b801b324482	flightbookingwithdocker-auth-service	"java -jar /app/app..."	34 seconds ago	Up 31 seconds	0.0.0.0:8090->8090/tcp, [::]:8090->8090/tcp	auth-service
c7a8926f848f	flightbookingwithdocker-booking-service	"java -jar /app/app..."	34 seconds ago	Up 31 seconds	0.0.0.0:8082->8082/tcp, [::]:8082->8082/tcp	booking-service
a4fbb3050903	flightbookingwithdocker-flight-service	"java -jar /app/app..."	34 seconds ago	Up 31 seconds	0.0.0.0:8081->8081/tcp, [::]:8081->8081/tcp	flight-service
4d5814e3a2f6	flightbookingwithdocker-eureka-server	"java -jar /app/app..."	34 seconds ago	Up 32 seconds	0.0.0.0:8761->8761/tcp, [::]:8761->8761/tcp	eureka-server
85293831e92f	flightbookingwithdocker-config-server	"java -jar /app/app..."	34 seconds ago	Up 33 seconds	0.0.0.0:8888->8888/tcp, [::]:8888->8888/tcp	config-server
7f9cfd0f769	confluentinc/cp-kafka:7.4.0	"/etc/confluent/docker..."	2 minutes ago	Up 32 seconds	0.0.0.0:9092->9092/tcp, [::]:9092->9092/tcp	flightbookingwithdocker-kafka-1
c877b5d430a8	mysql:8	"docker-entrypoint.s..."	2 minutes ago	Up 33 seconds	0.0.0.0:3308->3306/tcp, [::]:3308->3306/tcp	booking-db
24619d18e2df	mysql:8	"docker-entrypoint.s..."	2 minutes ago	Up 33 seconds	0.0.0.0:3307->3306/tcp, [::]:3307->3306/tcp	flight-db
5a3d92e4865c	confluentinc/cp-zookeeper:7.4.0	"/etc/confluent/docker..."	2 minutes ago	Up 33 seconds	0.0.0.0:2181->2181/tcp, [::]:2181->2181/tcp	flightbookingwithdocker-zookeeper-1

PostMan API'S

Register user

The screenshot shows a Postman interface for a POST request to `http://localhost:8080/api/auth/signup`. The request body is a JSON object with the following fields:

```
1 {
2   "username" : "sravanthi123",
3   "email" : "sravanthiguram955@gmail.com",
4   "password" : "Srav@1232345"
5 }
```

The response is a 200 OK status with a response time of 375 ms and a body size of 466 B. The response body is a JSON object:

```
1 {
2   "message": "User registered successfully!"
3 }
```

The interface includes tabs for Docs, Params, Auth, Headers (8), Body (selected), Scripts, Tests, and Settings. The Body tab is active, showing the raw JSON body. The response tab is also active, showing the 200 OK status and the response body.

User login

The screenshot shows a Postman interface for a POST request to `http://localhost:8080/api/auth/signin`. The request body is a JSON object with the following fields:

```
1 {
2   "username" : "sravanthi123",
3   "password" : "Srav@1232345"
4 }
```

The response is a 200 OK status with a response time of 2.09 s and a body size of 755 B. The response body is a JSON object:

```
1 {
2   "id": 2,
3   "username": "sravanthi123",
4   "email": "sravanthiguram955@gmail.com",
5   "roles": [
6     "ROLE_USER"
7   ]
8 }
```

The interface includes tabs for Docs, Params, Auth, Headers (9), Body (selected), Scripts, Tests, and Settings. The Body tab is active, showing the raw JSON body. The response tab is also active, showing the 200 OK status and the response body.

Add airline

POST ▼ `http://localhost:8080/api/flights/airlines`

Docs Params Authorization ● Headers (9) **Body** ● Scripts Tests Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** ▼

```
1 {
2   "airlineName": "Indigo",
3   "airlineCode": "IN"
4 }
```

Body Cookies Headers (3) Test Results ⌚

{} **JSON** ▼ ▶ Preview 🖼️ Visualize ▼

```
1 {
2   "id": 2,
3   "airlineName": "Indigo",
4   "airlineCode": "IN",
5   "active": true,
6   "createdAt": "2025-12-09T01:01:00.395011Z"
7 }
```

Add flight

POST ▼ `http://localhost:8080/api/flights/1`

Docs Params Authorization ● Headers (9) **Body** ● Scripts Tests Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** ▼

```
1 {
2   "flightNumber": "AI203",
3   "fromPlace": "MUM",
4   "toPlace": "CNI",
5   "departureTime": "2025-12-05T05:50:06",
6   "arrivalTime": "2025-12-06T05:50:06",
7   "price": 540,
8   "seatsAvailable": 100
9 }
10
```

Body Cookies Headers (3) Test Results 1:01 AM ▼

{} **JSON** ▼ ▶ Preview 🖼️ Visualize ▼

```
1 {
2   "id": 2,
3   "flightNumber": "AI203",
4   "fromPlace": "MUM",
5   "toPlace": "CNI",
6   "departureTime": "2025-12-05T05:50:06",
7   "arrivalTime": "2025-12-06T05:50:06",
8   "price": 540.0,
9   "seatsAvailable": 100,
10  "airline": {
11    "id": 1,
12    "airlineName": "Air India",
13    "airlineCode": "AI",
14    "active": true,
15    "createdAt": "2025-12-08T18:16:45.894447Z"
16  }
17 }
```

GET http://localhost:8080/api/flights/search?from=HYD&to=CNI&date=2025-12-05

Docs Params Authorization Headers (7) Body Scripts Tests Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL Text

1 Ctrl+Alt+P to Ask AI

Body Cookies Headers (3) Test Results

{ } JSON Preview Visualize

```
1  [
2    {
3      "id": 1,
4      "flightNumber": "AI202",
5      "fromPlace": "HYD",
6      "toPlace": "CNI",
7      "departureTime": "2025-12-05T05:50:06",
8      "arrivalTime": "2025-12-06T05:50:06",
9      "price": 540.0,
10     "seatsAvailable": 100,
11     "airline": {
12       "id": 1,
13       "airlineName": "Air India",
14       "airlineCode": "AI",
15       "active": true,
16       "createdAt": "2025-12-08T18:16:45.894447"
17     }
18   }
19 ]
```

http://localhost:8080/api/bookings

POST http://localhost:8080/api/bookings

Docs Params Authorization Headers (9) Body Scripts Tests Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL JSON

```
12  },
13  {
14    "name": "Anu",
15    "gender": "FEMALE",
16    "age": 25,
```

Body Cookies Headers (3) Test Results

{ } JSON Preview Visualize

```
1  {
2    "pnr": "PNR-553FF8C5",
3    "flightId": 1,
4    "email": "manasa@gmail.com",
5    "journeyDate": "2025-12-05",
6    "mealType": "VEG",
7    "status": "BOOKED",
8    "totalAmount": 1000.0,
9    "passengers": [
10     {
11       "name": "Ravi",
12       "gender": "MALE",
13       "age": 28,
14       "seatNumber": "12A"
15     },
16     {
17       "name": "Anu",
18       "gender": "FEMALE",
19       "age": 25,
20       "seatNumber": "12B"
21     }
22   ]
23 }
```

GET <http://localhost:8080/api/bookings/PNR-49A015E3>

Docs Params Authorization Headers (9) Body Scripts Tests

Query Params

Key	Value
Key	Value

Body Cookies Headers (3) Test Results

{ } JSON Preview Visualize

```

1  {
2    "pnr": "PNR-49A015E3",
3    "flightId": 1,
4    "email": "manasa@gmail.com",
5    "journeyDate": "2025-12-05",
6    "mealType": "VEG",
7    "status": "CANCELLED",
8    "totalAmount": 1080.0,
9    "passengers": [
10     {
11       "name": "Ravi",
12       "gender": "MALE",
13       "age": 28,
14       "seatNumber": "12A"
15     },
16     {
17       "name": "Anu",
18       "gender": "FEMALE",
19       "age": 25,
20       "seatNumber": "12B"
21     }
22   ]
23 }
```

GET <http://localhost:8080/api/bookings/history?email=manasa@gmail.com>

Docs Params Authorization Headers (9) Body Scripts Tests Settings

Query Params

<input checked="" type="checkbox"/>	Key	Value
<input checked="" type="checkbox"/>	email	manasa@gmail.com
	Key	Value

Body Cookies Headers (3) Test Results

{ } JSON Preview Visualize

```

1  [
2    {
3      "pnr": "PNR-49A015E3",
4      "flightId": 1,
5      "email": "manasa@gmail.com",
6      "journeyDate": "2025-12-05",
7      "mealType": "VEG",
8      "status": "CANCELLED",
9      "totalAmount": 1080.0,
10     "passengers": [
11       {
12         "name": "Ravi",
13         "gender": "MALE",
14         "age": 28,
15         "seatNumber": "12A"
16       },
17       {
18         "name": "Anu",
19         "gender": "FEMALE",
```

DELETE
http://localhost:8080/api/bookings/PNR-49A015E3

Docs Params Authorization Headers (9) Body Scripts Tests Settings

Query Params

Key	Value	Description
Key	Value	Description

Body Cookies Headers (1) Test Results

204 No Content

Raw Preview Visualize

1

JMETER REPORTS

For 20 requests

Test Plan

- Thread Group
 - Summary Report
 - View Results Tree
 - HTTP Header Manager
 - Add Inventory
 - Search Flight
 - Booking
 - Search Based on Pnr
 - Get History Based on Email
 - Delete

Summary Report

Name: Summary Report

Comments:

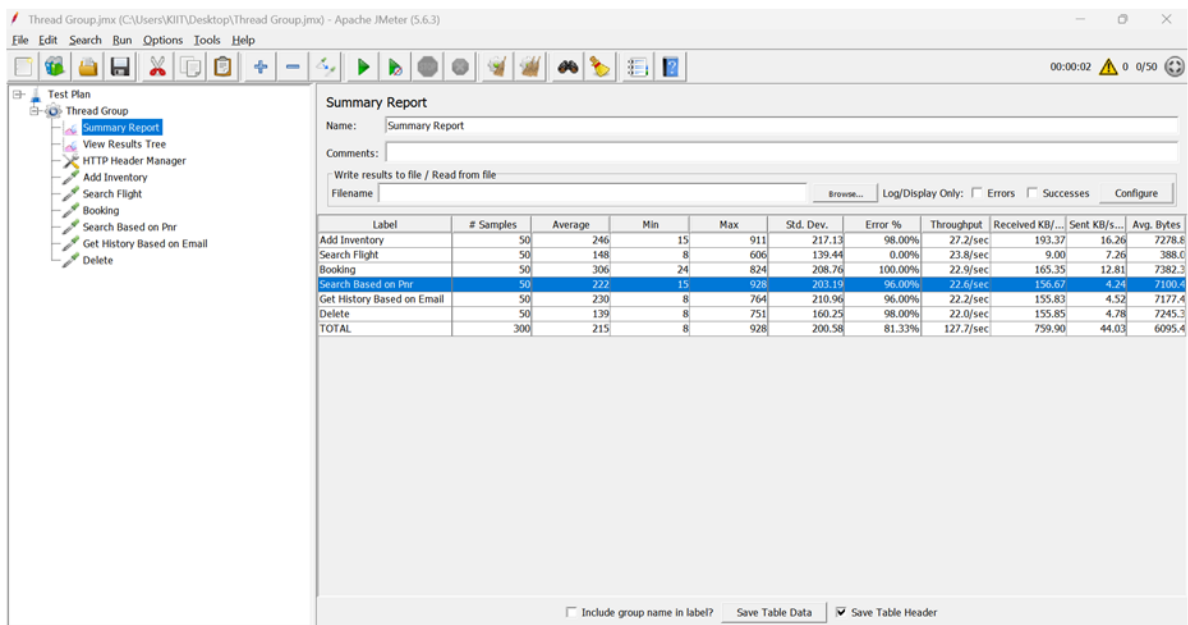
Write results to file / Read from file

Filename: Browse... Log/Display Only: ☐ Errors ☐ Successes Configure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Add Inventory	20	327	61	731	156.95	75.00%	15.8/sec	106.89	9.46	6912.2
Search Flight	20	147	22	646	151.71	0.00%	11.4/sec	5.28	3.49	474.0
Booking	20	391	129	755	211.60	0.00%	10.7/sec	4.15	5.96	397.9
Search Based ...	20	129	26	404	107.03	0.00%	11.4/sec	9.17	2.15	820.4
Get History Ba...	20	346	134	803	175.52	0.00%	9.6/sec	107.54	1.95	11475.0
Delete	20	319	85	599	141.96	100.00%	10.2/sec	68.34	2.20	6885.7
TOTAL	120	276	22	803	189.58	29.17%	45.1/sec	197.84	15.55	4494.2

☐ Include group name in label? ☒ Save Table Header

For 50 requests



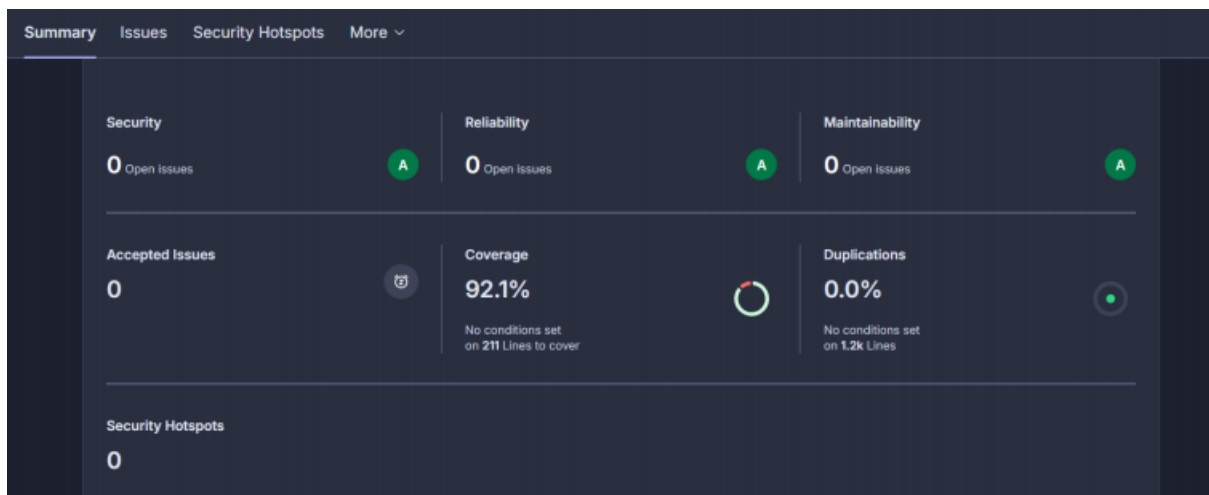
JACOCO REPORTS

FlightService												
FlightService												
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.flightservice	<div></div>	37%	<div></div>	n/a	1	2	2	3	1	2	0	1
com.flightservice.services	<div></div>	100%	<div></div>	100%	0	10	0	40	0	9	0	1
com.flightservice.controllers	<div></div>	100%	<div></div>	100%	0	8	0	13	0	5	0	1
Total	5 of 231	97%	0 of 8	100%	1	20	2	56	1	16	0	3

booking-service												
booking-service												
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.bookingservice	<div></div>	22%	<div></div>	n/a	2	4	5	7	2	4	0	2
com.bookingservice.kafka	<div></div>	0%	<div></div>	n/a	1	1	2	2	1	1	1	1
com.bookingservice.services	<div></div>	100%	<div></div>	100%	0	9	0	54	0	8	0	1
com.bookingservice.config	<div></div>	100%	<div></div>	n/a	0	3	0	7	0	3	0	1
com.bookingservice.controller	<div></div>	100%	<div></div>	n/a	0	4	0	5	0	4	0	1
Total	28 of 275	89%	0 of 2	100%	3	21	7	75	3	20	1	6

SONARQUBE ANALYSIS

Flight-service



Booking-service

