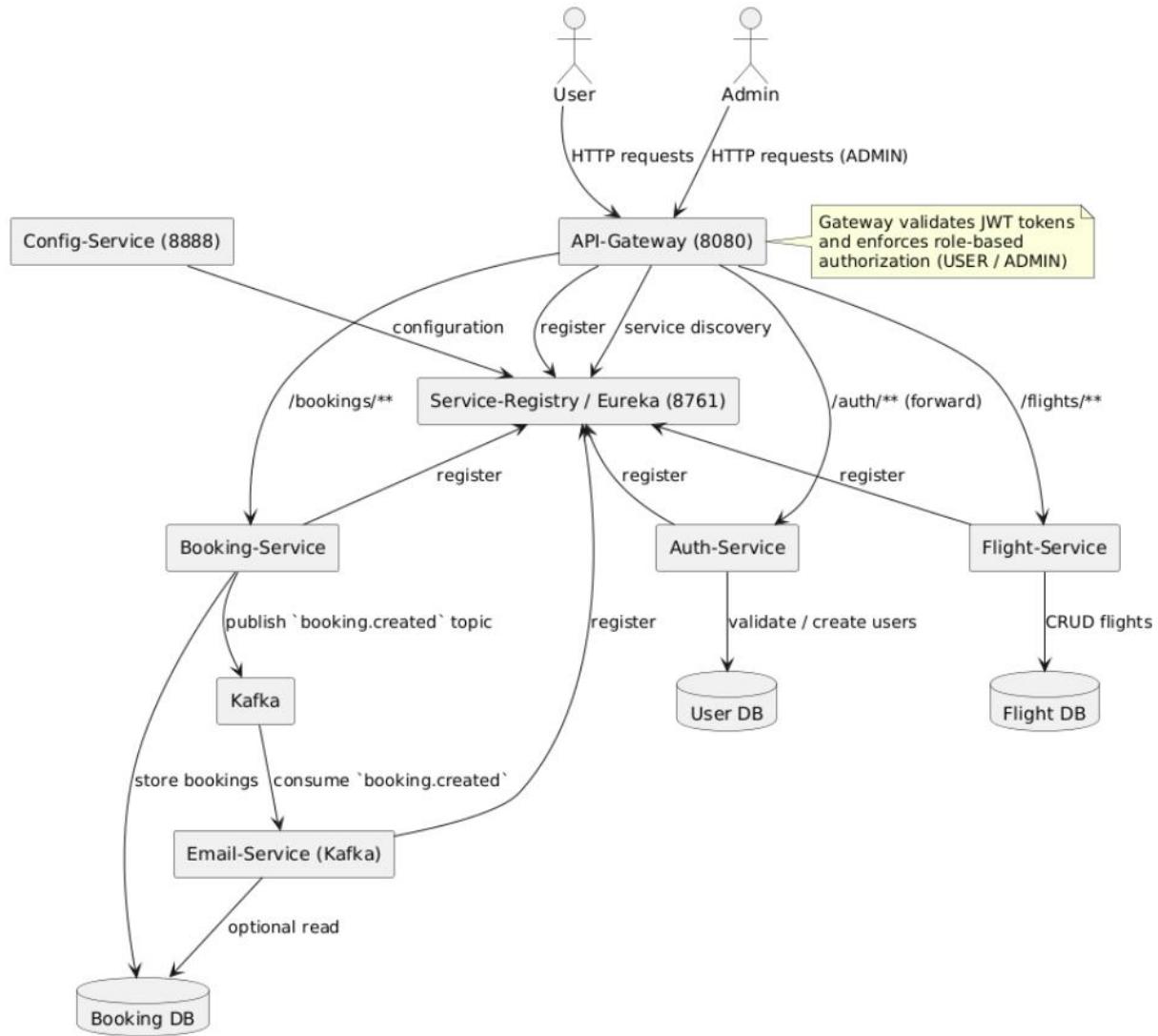


Architecture Diagram



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
a4ffb3050903	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
7f9cfdb0f769	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	flightbooking-withdocker-kafka-1
c877b5d438a8	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	flightbooking-withdocker-zookeeper-1

PostMan API'S

Register user

The screenshot shows a POST request to `http://localhost:8080/api/auth/signup`. The request body is JSON:

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

The response is 200 OK with a message: "User registered successfully!"

User login

The screenshot shows a POST request to `http://localhost:8080/api/auth/signin`. The request body is JSON:

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

The response is 200 OK with a user profile:

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

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": "2025-12-09T01:01:00.3950112"  
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": "MUB",  
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": "MUB",  
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": "2025-12-08T18:16:45.894447"  
16  },  
17}
```

HTTP FlightBookingWithDocker / search flights

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 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   "pnx": "PNR-553FF8C5",  
3   "flightId": 1,  
4   "email": "manasa@gmail.com",  
5   "journeyDate": "2025-12-05",  
6   "mealType": "VEG",  
7   "status": "BOOKED",  
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    }]
```

HTTP FlightBookingWithDocker / New Request

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

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",  
20      }  
21    ]  
22  }
```

HTTP FlightBookingWithDocker / New Request

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 |

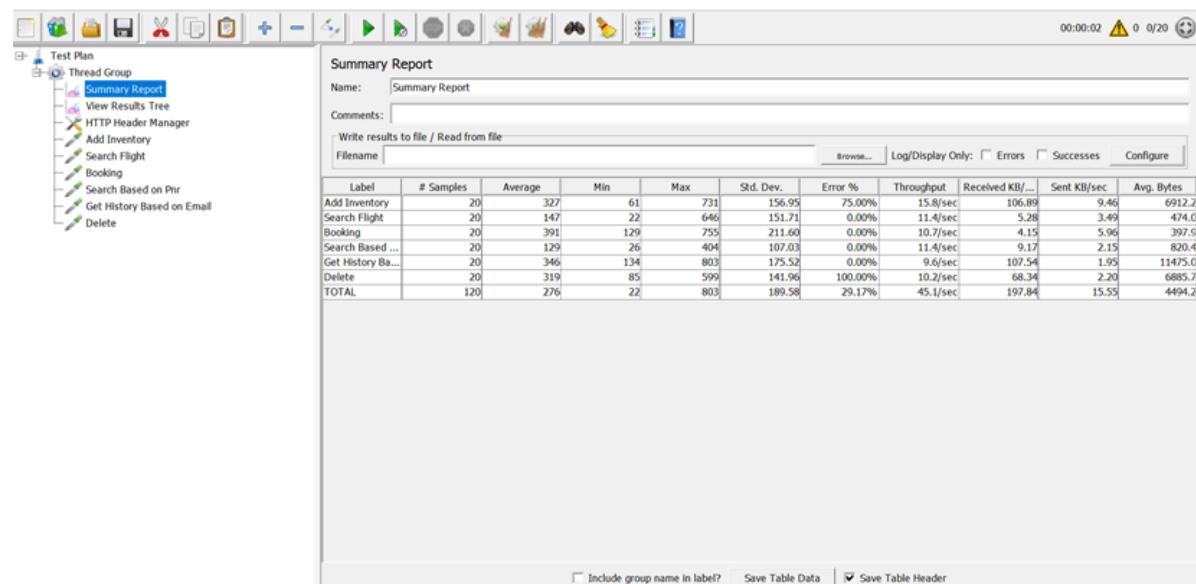
204 No Content

Raw Preview Visualize |

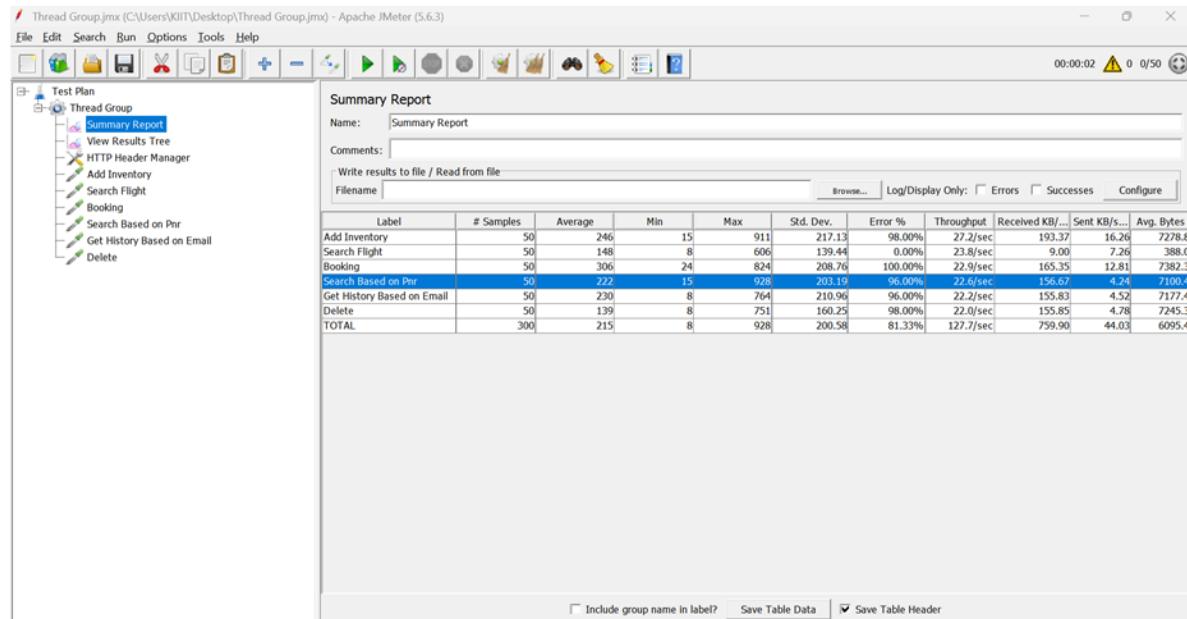
1

JMETER REPORTS

For 20 requests



For 50 requests



JACOCO REPORTS

FlightService Coverage Report:

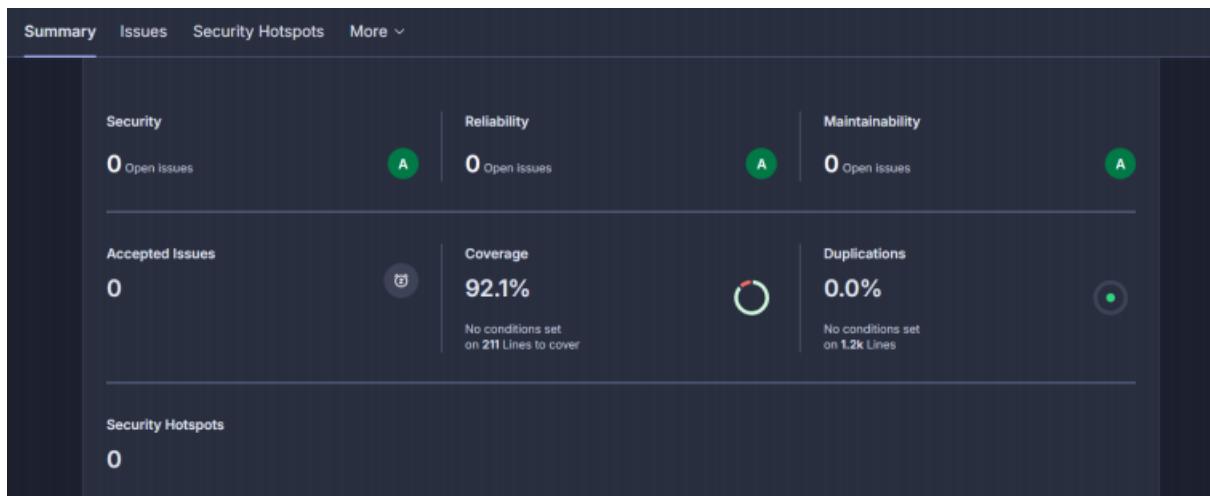
Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Ctxy	Missed	Lines	Missed	Methods	Missed	Classes
com.flightservice	37%	n/a	1	2	2	3	1	2	0	1	0	1
com.flightservice.services	100%	100%	0	10	0	40	0	9	0	9	0	1
com.flightservice.controllers	100%	100%	0	8	0	13	0	5	0	5	0	1
Total	5 of 231	97%	0 of 8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

booking-service Coverage Report:

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Ctxy	Missed	Lines	Missed	Methods	Missed	Classes
com.bookingservice	22%	n/a	2	4	5	7	2	4	0	2	0	2
com.bookingservice.kafka	0%	n/a	1	1	2	2	1	1	1	1	1	1
com.bookingservice.services	100%	100%	0	9	0	54	0	8	0	8	0	1
com.bookingservice.config	100%	n/a	0	3	0	7	0	3	0	3	0	1
com.bookingservice.controller	100%	n/a	0	4	0	5	0	4	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

