

Assignment 4

RBAC:

Only admin can add flights

As Admin:

The screenshot shows a Postman request to `http://localhost:9000/flightservice/api/flight/airline/inventory` with a status of **201 Created**. The request body is a JSON object representing a flight schedule:

```
1 {  
2   "flightId": 4,  
3   "fromCityId": 4,  
4   "toCityId": 2,  
5   "departureDate": "2027-07-11",  
6   "departureTime": "2027-07-11T09:30:00",  
7   "price": 4500.50,  
8   "seatsAvailable": 120,  
9   "duration": 180  
10 }  
11 
```

The response body is a JSON object containing the flight details and the airline information:

```
1 {  
2   "departureDate": "2027-07-11",  
3   "departureTime": "2027-07-11T09:30:00",  
4   "duration": 180,  
5   "flight": {  
6     "airline": {  
7       "airlineName": "Spice Jet",  
8       "id": 3  
9     },  
10    "columns": 6,  
11    "id": 4,  
12    "name": "S7A0A"  
13 }  
14 }
```

as User:

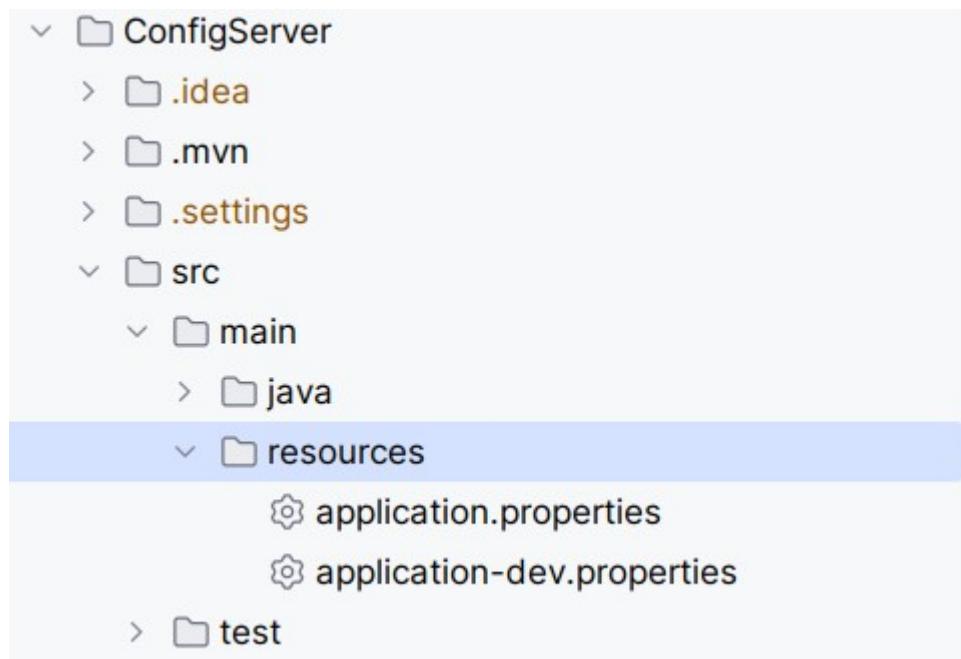
The screenshot shows a Postman request to `http://localhost:9000/flightservice/api/flight/airline/inventory` with a status of **403 Forbidden**. The request body is identical to the one in the previous screenshot:

```
1 {  
2   "flightId": 4,  
3   "fromCityId": 4,  
4   "toCityId": 2,  
5   "departureDate": "2027-07-11",  
6   "departureTime": "2027-07-11T09:30:00",  
7   "price": 4500.50,  
8   "seatsAvailable": 120,  
9   "duration": 180  
10 }  
11 
```

The response message indicates to try with different auth credentials:

Try with different auth credentials

Profiling:



(Note: multiple profiles are present in every microservice not just config server)

Docker file (optimised):

```
FROM eclipse-temurin:21-jdk-jammy

WORKDIR /app

COPY target/ConfigServer-0.0.1-SNAPSHOT.jar /app/ConfigServer-0.0.1-SNAPSHOT.jar

EXPOSE 8888

ENTRYPOINT ["java", "-jar", "ConfigServer-0.0.1-SNAPSHOT.jar", "--spring.profiles.active=docker"]
```

Script:

```
#!/bin/bash
set -e

java -jar ./ServiceRegistry/target/ServiceRegistry-0.0.1-SNAPSHOT.jar --spring.profiles.active=dev &
sleep 10

java -jar ./ConfigServer/target/ConfigServer-0.0.1-SNAPSHOT.jar --spring.profiles.active=dev &
sleep 10

java -jar ./AuthService/target/AuthService-0.0.1-SNAPSHOT.jar --spring.profiles.active=dev &
java -jar ./FlightService/target/FlightService-0.0.1-SNAPSHOT.jar --spring.profiles.active=dev &
java -jar ./BookingService/target/BookingService-0.0.1-SNAPSHOT.jar --spring.profiles.active=dev &
java -jar ./EmailService/target>EmailService-0.0.1-SNAPSHOT.jar --spring.profiles.active=dev &
sleep 5

java -jar ./ApiGateway/target/ApiGateway-0.0.1-SNAPSHOT.jar --spring.profiles.active=dev &

wait
```

Newman Report:

Iterations	executed	failed
iterations	1	0
requests	14	0
test-scripts	0	0
prerequest-scripts	0	0
assertions	0	0
total run duration: 515ms		
total data received: 47.53kB (approx)		
average response time: 27ms [min: 8ms, max: 95ms, s.d.: 26ms]		

vishnu ➤ fedora ➤ ./FlightBookingDokcerSecurity ➤ |

Jmeter Report: (Test plan and full report available on jmeter folder)

```
vishnu ➤ fedora ➤ ./Jmeter ➤ jmeter -n -t "/home/vishnu/Documents/Chubb Assignments/FlightBookingDokcerSecurity/Jmeter/jmeter_test_plan.jmx" -l "/home/vishnu/Documents/Chubb Assignments/FlightBookingDokcerSecurity/Jmeter/results.jtl"
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
Creating summariser <summary>
Created the tree successfully using /home/vishnu/Documents/Chubb Assignments/FlightBookingDokcerSecurity/Jmeter/jmeter_test_plan.jmx
Starting standalone test @ 2025 Dec 8 23:38:11 IST (1765217291621)
Waiting for possible Shutdown/StopTestNow/HeapDump/ThreadDump message on port 4445
summary = 800 in 00:00:02 = 381.5/s Avg: 111 Min: 4 Max: 999 Err: 297 (37.12%)
Tidying up ... @ 2025 Dec 8 23:38:13 IST (1765217293772)
... end of run
```

Test and Report information	
Source file	"results.jtl"
Start Time	"12/8/25, 11:38 PM"
End Time	"12/8/25, 11:38 PM"
Filter for display	""

APDEX (Application Performance Index)			
Apdex	T (Toleration threshold)	F (Frustration threshold)	Label
0.598	500 ms	1 sec 500 ms	Total
0.010	500 ms	1 sec 500 ms	SignUp
0.010	500 ms	1 sec 500 ms	Add Inventory
0.010	500 ms	1 sec 500 ms	Book Ticket
0.755	500 ms	1 sec 500 ms	Login
1.000	500 ms	1 sec 500 ms	Search Flight
1.000	500 ms	1 sec 500 ms	Cancel ticket
1.000	500 ms	1 sec 500 ms	Get Ticket history by email
1.000	500 ms	1 sec 500 ms	Get Ticket Details by PNR



(note: failure in test is due to submission of signin request for same email, booking same seats and adding same schedule multiple times)

20 Threads

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/s...	Sent KB/sec	Avg. Bytes
SignUp	20	18	7	123	28.58	95.00%	20.9/sec	7.24	6.48	355.2
Login	20	89	76	108	6.34	0.00%	20.6/sec	12.15	6.31	603.0
Add Inventory	20	10	9	21	2.71	95.00%	22.2/sec	4.22	12.28	194.9
Search Flight	20	5	5	7	0.62	0.00%	22.6/sec	58.93	10.32	2673.4
Book Ticket	20	19	13	56	9.87	95.00%	22.3/sec	3.52	18.18	161.7
Get Ticket Det...	20	7	5	10	1.16	0.00%	23.4/sec	12.13	8.01	529.8
Get Ticket hist...	20	6	5	9	1.04	0.00%	23.5/sec	1010.71	8.46	43986.2
Cancel ticket	20	15	12	20	1.69	0.00%	23.4/sec	1.46	8.67	64.0
TOTAL	160	21	5	123	28.41	35.62%	144.4/sec	856.13	63.42	6071.0

50 Threads

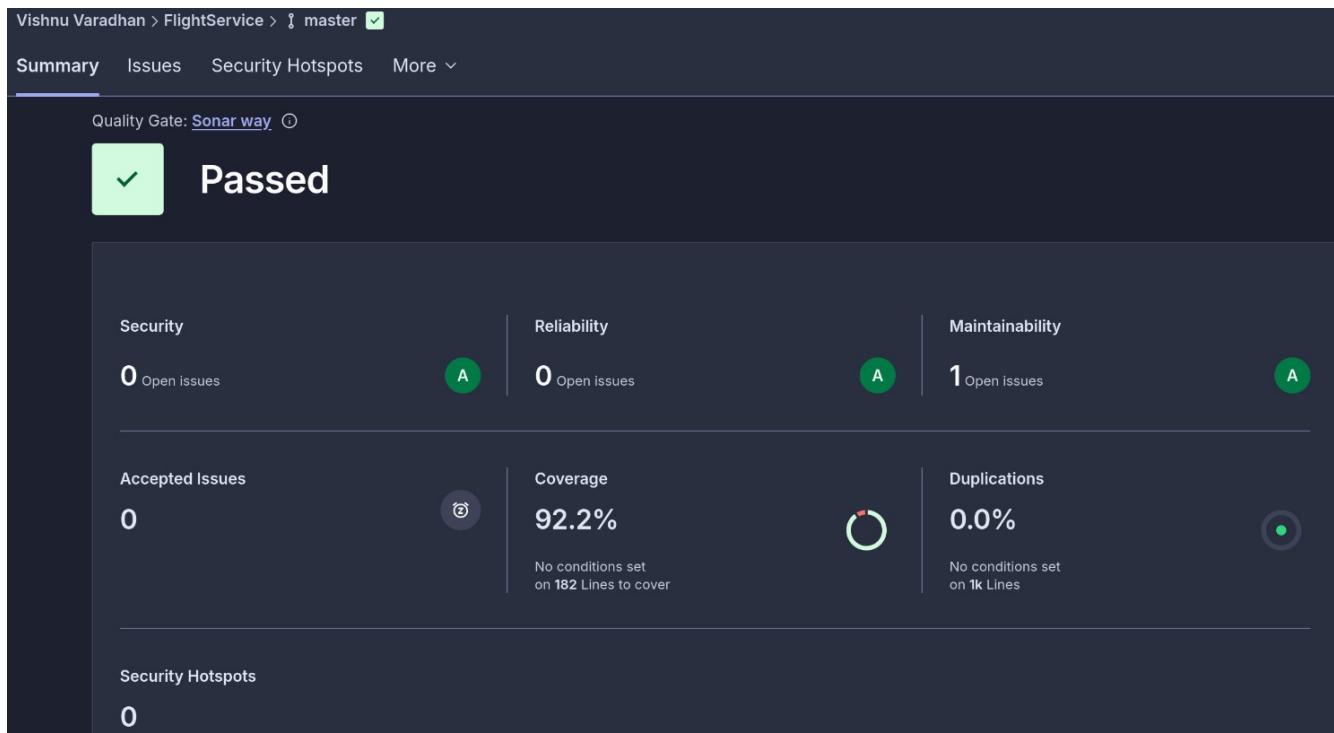
Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/s...	Sent KB/sec	Avg. Bytes
SignUp	50	33	8	100	23.18	98.00%	46.3/sec	16.10	14.47	356.2
Login	50	157	84	259	48.82	0.00%	44.6/sec	26.25	13.62	603.3
Add Inventory	50	24	9	68	13.70	98.00%	47.6/sec	8.61	26.34	185.4
Search Flight	50	13	5	37	7.11	0.00%	47.7/sec	124.42	21.78	2673.0
Book Ticket	50	48	23	129	19.03	98.00%	46.6/sec	6.81	37.92	149.9
Get Ticket Det...	50	21	10	53	8.82	0.00%	47.4/sec	24.52	16.21	529.2
Get Ticket hist...	50	17	7	44	9.34	0.00%	47.6/sec	2045.56	17.11	43987.8
Cancel ticket	50	41	12	116	20.77	0.00%	47.5/sec	2.97	17.62	64.0
TOTAL	400	44	5	259	49.41	36.75%	308.9/sec	1830.53	135.74	6068.6

100 Threads

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/s...	Sent KB/sec	Avg. Bytes
SignUp	100	259	6	952	197.98	99.00%	59.4/sec	20.71	18.45	356.9
Login	100	403	103	787	184.77	0.00%	51.2/sec	30.14	15.64	603.1
Add Inventory	100	33	6	204	29.75	99.00%	53.9/sec	9.86	29.82	187.4
Search Flight	100	17	4	58	10.65	0.00%	54.7/sec	142.71	24.99	2672.8
Book Ticket	100	56	11	224	30.91	99.00%	54.6/sec	7.78	44.48	145.9
Get Ticket Det...	100	28	5	128	21.75	0.00%	59.0/sec	30.50	20.18	529.1
Get Ticket hist...	100	27	4	117	22.48	0.00%	60.1/sec	2579.90	21.58	43986.3
Cancel ticket	100	44	8	134	23.12	0.00%	60.6/sec	3.79	22.50	64.0
TOTAL	800	108	4	952	166.00	37.12%	383.5/sec	2272.67	168.44	6068.2

SonarQube Report:

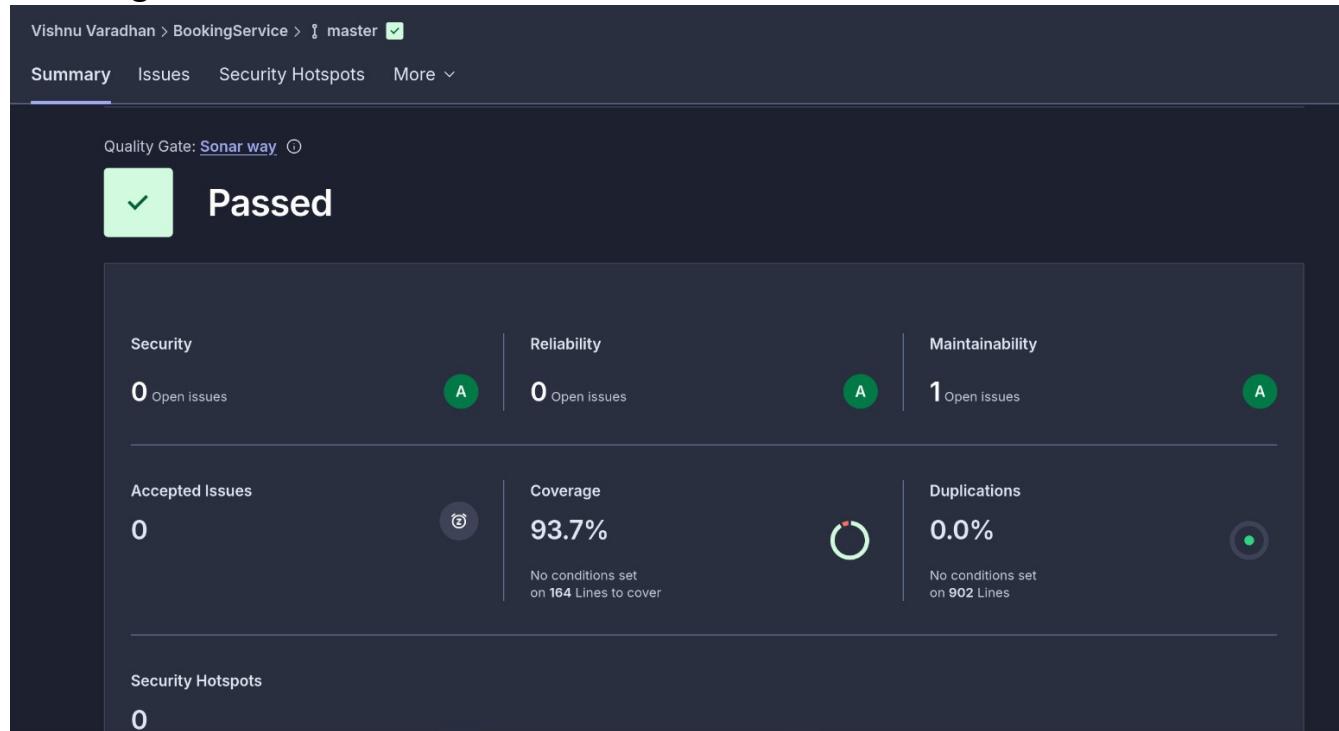
FlightService:



link =

https://sonarcloud.io/summary/overall?id=vi2hnu-1_flightservicedocker&branch=master

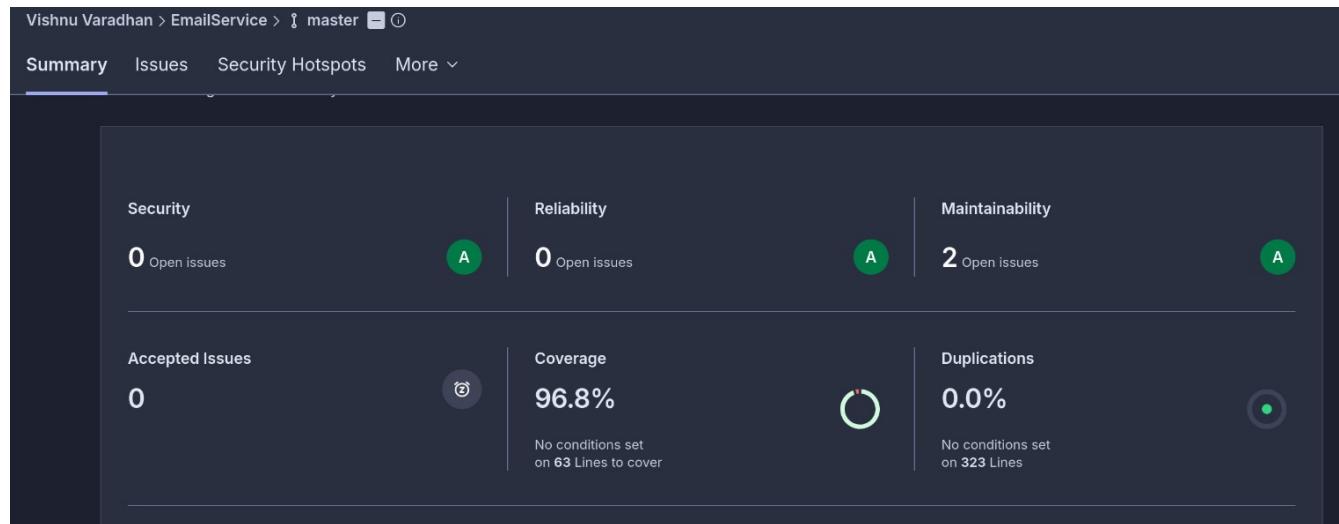
BookingService:



link:

https://sonarcloud.io/summary/overall?id=vi2hnu-1_bookingserivedocker&branch=master

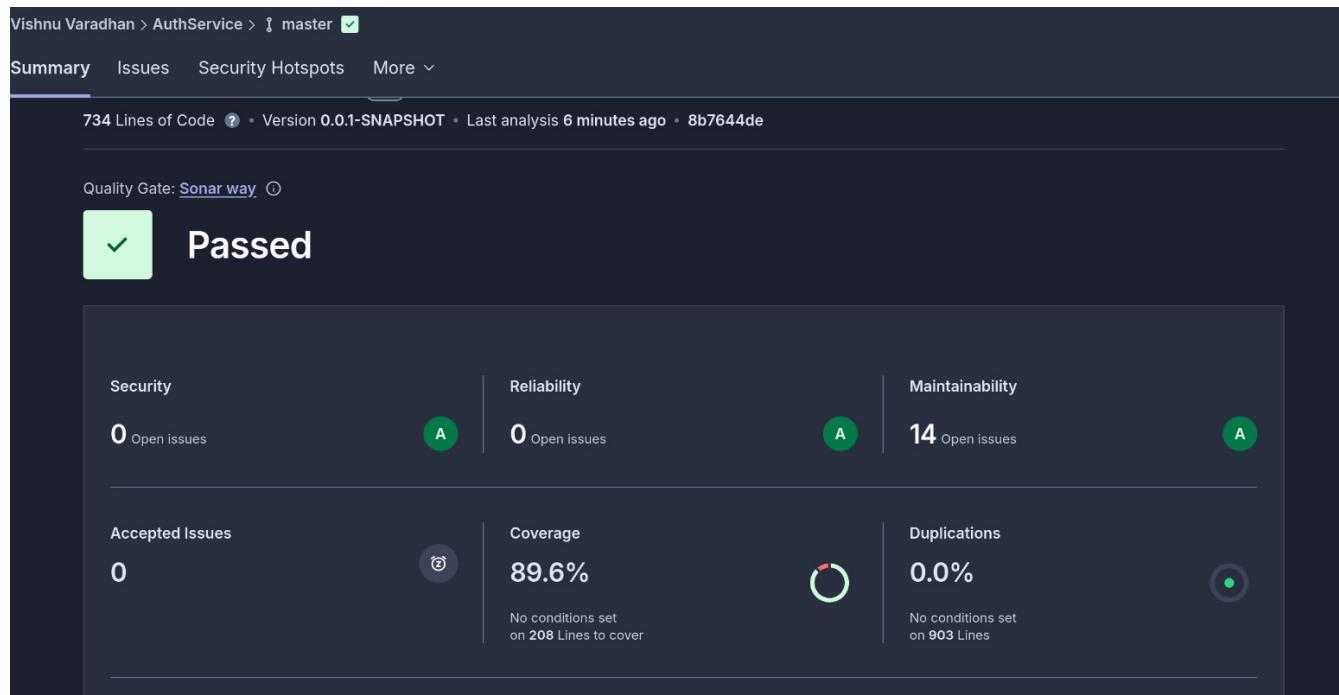
Email Service:



Link:

https://sonarcloud.io/summary/overall?id=vi2hnu-1_emailservicedocker&branch=master

AuthService:



Link: https://sonarcloud.io/summary/overall?id=vi2hnu-1_authservice&branch=master

Jacoco report:

FlightService

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
org.example.flightservice.configuration		0%		n/a	4	4	7	7	4	4	2	2
org.example.flightservice.model.enums		50%		n/a	1	2	2	4	1	2	1	2
org.example.flightservice		0%		n/a	2	2	3	3	2	2	1	1
org.example.flightservice.service.implementation		99%		85%	4	31	1	101	0	17	0	3
org.example.flightservice.exception		100%		100%	0	15	0	29	0	14	0	6
org.example.flightservice.dto		100%		100%	0	7	0	14	0	4	0	3
org.example.flightservice.controller		100%		n/a	0	11	0	19	0	11	0	3
org.example.flightservice.model.entity		100%		n/a	0	2	0	5	0	2	0	1
Total	67 of 786	91%	4 of 36	88%	11	74	13	182	7	56	4	21

EmailService

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
org.example.emailservice		37%		n/a	1	2	2	3	1	2	0	1
org.example.emailservice.service.implementation		100%		n/a	0	5	0	44	0	5	0	1
org.example.emailservice.dto		100%		n/a	0	3	0	3	0	3	0	3
org.example.emailservice.model.enums		100%		n/a	0	2	0	4	0	2	0	2
org.example.emailservice.kafka		100%		n/a	0	4	0	9	0	4	0	1
Total	5 of 270	98%	0 of 0	n/a	1	16	2	63	1	16	0	8

BookingService

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
org.example.bookingservice.configuration		0%		n/a	3	3	4	4	3	3	1	1
org.example.bookingservice.exception		91%		50%	1	13	2	26	0	12	0	5
org.example.bookingservice		0%		n/a	2	2	3	3	2	2	1	1
org.example.bookingservice.service.implementation		98%		95%	1	25	1	99	0	13	0	2
org.example.bookingservice.dto		100%		n/a	0	6	0	11	0	6	0	5
org.example.bookingservice.controller		100%		n/a	0	7	0	15	0	7	0	2
org.example.bookingservice.model.enums		100%		n/a	0	3	0	6	0	3	0	3
Total	41 of 745	94%	2 of 26	92%	7	59	10	164	5	46	2	19

AuthService

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
org.example.authservice.Configuration		40%		n/a	4	10	9	21	4	10	0	1
org.example.authservice.service.jwt		88%		90%	2	21	7	72	1	16	0	3
org.example.authservice.controllers		88%		88%	4	16	3	49	3	11	0	1
org.example.authservice		0%		n/a	2	2	3	3	2	2	1	1
org.example.authservice.service.user		100%		100%	0	8	0	22	0	7	0	2
org.example.authservice.exception		100%		100%	0	6	0	16	0	5	0	2
org.example.authservice.dto		100%		n/a	0	4	0	11	0	4	0	4
org.example.authservice.model.entity		100%		n/a	0	3	0	10	0	3	0	2
org.example.authservice.model.enums		100%		n/a	0	1	0	4	0	1	0	1
Total	130 of 867	85%	2 of 23	91%	12	71	22	208	10	59	1	17

Eureka:

System Status

Environment	test	Current time	2025-12-08T18:15:22 +0000
Data center	default	Uptime	00:59
		Lease expiration enabled	true
		Renews threshold	10
		Renews (last min)	20

DS Replicas

localhost			
Instances currently registered with Eureka			
Application	AMIs	Availability Zones	Status
APIGATEWAY	n/a (1)	(1)	UP (1) - 84a992112de8:ApiGateway:9000
AUTHSERVICE	n/a (1)	(1)	UP (1) - 39d5f6093c68:AuthService:9091
BOOKINGSERVICE	n/a (1)	(1)	UP (1) - 5f7ffc0c4eab:BookingService:8081
EMAILSERVICE	n/a (1)	(1)	UP (1) - 3e3bdec73b8c:EmailService:8082
FLIGHTSERVICE	n/a (1)	(1)	UP (1) - 5737213135fb:FlightService:8080

Docker:

```
vishnu fedora ..../FlightBookingDokcerSecurity ➤ docker ps
CONTAINER ID   IMAGE   COMMAND   CREATED   STATUS   PORTS
84a992112de8   flightbookingdokcersecurity-apigateway   "java -jar ApiGatewa..."   2 hours ago   Up 2 hours   0.0.0.
0:9000->9000/tcp, [::]:9000->9000/tcp   apigateway
3e3bdec73b8c   flightbookingdokcersecurity-emailservice   "java -jar EmailServ..."   2 hours ago   Up 2 hours   0.0.0.
0:8082->8082/tcp, [::]:8082->8082/tcp   emailservice
39d5f6093c68   flightbookingdokcersecurity-authservice   "java -jar AuthServi..."   2 hours ago   Up 2 hours   0.0.0.
0:9091->9091/tcp, [::]:9091->9091/tcp   authservice
5737213135fb   flightbookingdokcersecurity-flightservice   "java -jar FlightSer..."   2 hours ago   Up 2 hours   0.0.0.
0:8080->8080/tcp, [::]:8080->8080/tcp   flightservice
5f7ffc0c4eab   flightbookingdokcersecurity-bookingservice   "java -jar BookingSe..."   2 hours ago   Up 2 hours   0.0.0.
0:8081->8081/tcp, [::]:8081->8081/tcp   bookingservice
5f26ab7535c9   mcr.microsoft.com/mssql/server:2022-latest   "/opt/mssql/bin/laun..."   2 hours ago   Up 2 hours   0.0.0.
0:1433->1433/tcp, [::]:1433->1433/tcp   sql_db
458238a3be39   redis:latest   "docker-entrypoint.s..."   2 hours ago   Up 2 hours   0.0.0.
0:6379->6379/tcp, [::]:6379->6379/tcp   redis
abcee041bd95   apache/kafka:4.1.1   "/__cacert_entrypoi..."   2 hours ago   Up 2 hours   0.0.0.
0:9092->9092/tcp, [::]:9092->9092/tcp   kafkaQueue
3d71572736b2   flightbookingdokcersecurity-configserver   "java -jar ConfigSer..."   2 hours ago   Up 2 hours (healthy)   0.0.0.
0:8888->8888/tcp, [::]:8888->8888/tcp   configserver
vishnu fedora ..../FlightBookingDokcerSecurity ➤ docker images
IMAGE   ID   CREATED   SIZE
apache/kafka:4.1.1   97f07998d0d7   429MB   0B   U
flightbookingdokcersecurity-apigateway:latest   93eb8f57dad3   490MB   0B   U
flightbookingdokcersecurity-authservice:latest   640b008da96d   527MB   0B   U
flightbookingdokcersecurity-bookingservice:latest   d4d61d7b2a0e   558MB   0B   U
flightbookingdokcersecurity-configserver:latest   1ac8d8551a0f   483MB   0B   U
flightbookingdokcersecurity-emailservice:latest   74c5a120c688   511MB   0B   U
flightbookingdokcersecurity-eureka:latest   fba0e2e414f9   501MB   0B   U
flightbookingdokcersecurity-flightservice:latest   d2c21c442b08   563MB   0B   U
kicbase/stable:v0.0.47   795ea6a69ce6   1.31GB   0B   U
mcr.microsoft.com/mssql/server:2022-latest   3c94bf005911   1.61GB   0B   U
mongo:latest   f862b74ef86b   906MB   0B   U
mysql:5.7   5107333e08a8   501MB   0B   U
redis:latest   1c390e3bb5cb   139MB   0B   U
```

Logs:

```
Attaching to apigateway, authservice, bookingservice, configserver, emailservice, eureka, flightservice, kafkaqueue, redis, sql_db
eureka |
eureka |   \ \ / ____\ _ _ - _ ( )_ _ _ _ \ \ \ \
eureka |   ( ( )\_\_\_|'-'| '-'| '-'| '-'| \ \ \ \
eureka |   \ \ \_\_\_|( )| '-'| '-'| '-'| '-'| '-'| ) )
eureka |   ' |_____| :|_-| |-|-| |-|_, | / / /
eureka | ======|=|=====|=|/_/ / /
eureka |
eureka | :: Spring Boot ::           (v4.0.0)
eureka |
eureka | 2025-12-08T17:07:53.658Z INFO 1 --- [ServiceRegistry] [          main] o.e.s.ServiceRegistryApplication : Starting ServiceRegistryApplication v0.0.
eureka | 2025-12-08T17:07:53.663Z INFO 1 --- [ServiceRegistry] [          main] o.e.s.ServiceRegistryApplication : No active profile set, falling back to 1
eureka | 2025-12-08T17:07:54.637Z INFO 1 --- [ServiceRegistry] [          main] o.s.cloud.context.scope.GenericScope : BeanFactory id=66c7ce29-e870-3c61-a4ed-99
eureka | 2025-12-08T17:07:54.891Z INFO 1 --- [ServiceRegistry] [          main] o.s.boot.tomcat.TomcatWebServer : Tomcat initialized with port 8761 (http)
eureka | 2025-12-08T17:07:54.902Z INFO 1 --- [ServiceRegistry] [          main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
eureka | 2025-12-08T17:07:54.902Z INFO 1 --- [ServiceRegistry] [          main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/1
eureka | 2025-12-08T17:07:54.902Z INFO 1 --- [ServiceRegistry] [          main] b.w.c.s.WebApplicationContextInitializer : Root WebApplicationContext: initialization
eureka | 2025-12-08T17:07:55.797Z INFO 1 --- [ServiceRegistry] [          main] c.n.d.provider.DiscoveryJerseyProvider : Using JSON encoding codec LegacyJacksonJ
eureka | 2025-12-08T17:07:55.797Z INFO 1 --- [ServiceRegistry] [          main] c.n.d.provider.DiscoveryJerseyProvider : Using JSON decoding codec LegacyJacksonJ
eureka | 2025-12-08T17:07:55.935Z INFO 1 --- [ServiceRegistry] [          main] c.n.d.provider.DiscoveryJerseyProvider : Using XML encoding codec XStreamXml
eureka | 2025-12-08T17:07:55.935Z INFO 1 --- [ServiceRegistry] [          main] c.n.d.provider.DiscoveryJerseyProvider : Using XML decoding codec XStreamXml
eureka | 2025-12-08T17:07:56.083Z INFO 1 --- [ServiceRegistry] [          main] o.s.v.b.OptionalValidatorFactoryBean : Failed to set up a Bean Validation provider
eureka | 2025-12-08T17:07:56.780Z WARN 1 --- [ServiceRegistry] [          main] iguration$LoadBalancerCaffeineWarnLogger : Spring Cloud LoadBalancer is currently w
eureka | 2025-12-08T17:07:56.810Z INFO 1 --- [ServiceRegistry] [          main] o.s.c.n.eureka.InstanceInfoFactory : Setting initial instance status as: START
eureka | 2025-12-08T17:07:56.840Z INFO 1 --- [ServiceRegistry] [          main] com.netflix.discovery.DiscoveryClient : Initializing Eureka in region us-east-1
eureka | 2025-12-08T17:07:56.841Z INFO 1 --- [ServiceRegistry] [          main] com.netflix.discovery.DiscoveryClient : Client configured to neither register nor
eureka | 2025-12-08T17:07:56.843Z INFO 1 --- [ServiceRegistry] [          main] com.netflix.discovery.DiscoveryClient : Discovery Client initialized at timestamp
eureka | 2025-12-08T17:07:56.915Z INFO 1 --- [ServiceRegistry] [          main] c.n.eureka.DefaultEurekaServerContext : Initializing ...
eureka | 2025-12-08T17:07:56.919Z INFO 1 --- [ServiceRegistry] [          main] c.n.eureka.cluster.PeerEurekaNodes : Adding new peer nodes [http://localhost:8
eureka | 2025-12-08T17:07:57.087Z INFO 1 --- [ServiceRegistry] [          main] c.n.d.provider.DiscoveryJerseyProvider : Using JSON encoding codec LegacyJacksonJ
eureka | 2025-12-08T17:07:57.087Z INFO 1 --- [ServiceRegistry] [          main] c.n.d.provider.DiscoveryJerseyProvider : Using JSON decoding codec LegacyJacksonJ
eureka | 2025-12-08T17:07:57.087Z INFO 1 --- [ServiceRegistry] [          main] c.n.d.provider.DiscoveryJerseyProvider : Using XML encoding codec XStreamXml
eureka | 2025-12-08T17:07:57.087Z INFO 1 --- [ServiceRegistry] [          main] c.n.d.provider.DiscoveryJerseyProvider : Using XML decoding codec XStreamXml
eureka | 2025-12-08T17:07:57.123Z INFO 1 --- [ServiceRegistry] [          main] c.n.eureka.cluster.PeerEurekaNodes : Replica node URL: http://localhost:8761/
eureka | 2025-12-08T17:07:57.134Z INFO 1 --- [ServiceRegistry] [          main] c.n.e.registry.AbstractInstanceRegistry : Finished initializing remote region regis
eureka | 2025-12-08T17:07:57.134Z INFO 1 --- [ServiceRegistry] [          main] c.n.eureka.DefaultEurekaServerContext : Initialized
```

(note: Docker logs present in root folder)

Postman (Check full request body and response data at the end of this document)

1) <http://localhost:9000/flightservice/api/flight/airline/inventory>

The screenshot shows the Postman interface for a POST request to <http://localhost:9000/flightservice/api/flight/airline/inventory>. The request body is a JSON object with the following structure:

```
1 {  
2   "flightId": 4,  
3   "fromCityId": 4,  
4   "toCityId": 2,  
5   "departureDate": "2026-07-13",  
6   "departureTime": "2026-07-13T09:30:00",  
7   "price": 4500.50,  
8   "seatsAvailable": 120,  
9   "duration": 180  
10 }
```

The response status is 201 Created, and the response body is a detailed JSON object representing the flight record:

```
1 {  
2   "departureDate": "2026-07-13",  
3   "departureTime": "2026-07-13T09:30:00",  
4   "duration": 180,  
5   "flight": {  
6     "airline": {  
7       "airlineName": "Spice Jet",  
8       "id": 3  
9     },  
10    "columns": 6,  
11    "id": 4,  
12    "name": "SJ404",  
13    "rows": 34,  
14    "year": 2025  
15  },  
16   "fromCity": {  
17     "airportCode": "BLR",  
18     "cityName": "Bengaluru",  
19     "id": 4  
20   },  
21   "id": 60017,  
22   "price": 4500.5,  
23   "seatsAvailable": 204,  
24   "toCity": {
```

2) <http://localhost:9000/flightservice/api/flight/search>

HTTP Chubb / Flight Service / **Search Flight**

POST <http://localhost:9000/flightservice/api/flight/search>

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

none form-data x-www-form-urlencoded raw binary GraphQL [JSON](#)

```
1 {  
2   "fromCityCode": "BLR",  
3   "toCityCode": "BOM",  
4   "date": "2026-01-22"  
5 }
```

Body Cookies Headers (3) Test Results | [↻](#) 200 OK

{ } JSON ▾ ▶ Preview  Visualize ▾

```
1 [  
2   {  
3     "departureDate": "2026-01-22",  
4     "departureTime": "2026-01-21T09:30:00",  
5     "duration": 180,  
6     "flight": {  
7       "airline": {  
8         "airlineName": "Spice Jet",  
9         "id": 3  
10      },  
11      "columns": 6,  
12      "id": 5,  
13      "name": "SJ505",  
14      "rows": 26,  
15      "year": 2025  
16    },  
17    "fromCity": {  
18      "airportCode": "BLR",  
19      "cityName": "Bengaluru",  
20      "id": 4  
21    },  
22    "id": 10004,  
23    "price": 4500.5,  
24    "seatsAvailable": 120,
```

3) <http://localhost:9000/bookingservice/api/flight/booking/3>

HTTP Chubb / Booking Service / Book ticket

POST <http://localhost:9000/bookingservice/api/flight/booking/3>

Docs Params Authorization Headers (9) Body Scripts Settings

none form-data x-www-form-urlencoded raw binary GraphQL **JSON** ▾

```
1  {
2    "user": {
3      "id": 1,
4      "name": "Vinod Patel",
5      "email": "vishnuvaradhankr@gmail.com",
6      "gender": "MALE"
7    },
8    "scheduleId": 8,
9    "returnTripId": null,
10   "passengers": [
11     {
12       "name": "Ramesh Kumar",
13       "gender": "MALE",
14       "meal": "VEG",
15       "seatPos": "2C"
16     },
17     {
18       "name": "Anita Singh",
19       "gender": "FEMALE",
20       "meal": "NONVEG",
21       "seatPos": "2A"
22     }
23   ]
24 }
```

{ } JSON ▾ ▶ Preview 🖼 Visualize | ▾

```
2   "bookedByUsers": {
3     "email": "vishnuvaradhankr@gmail.com",
4     "gender": "MALE",
5     "id": 1,
6     "name": "Vinod Patel"
7   },
8   "id": 20017,
9   "passengers": [
10    {
11      "gender": "MALE",
12      "id": 20032,
13      "mealOption": "VEG",
14      "name": "Ramesh Kumar",
15      "seatPosition": "2C"
16    },
17    {
18      "gender": "FEMALE",
19      "id": 20033,
20      "mealOption": "NONVEG",
21      "name": "Anita Singh",
22      "seatPosition": "2A"
23    }
24  ],
25  "pnr": "PNR17645937139851",
```

4) <http://localhost:9000/bookingservice/api/flight/ticket/PNR17645920003131>

GET <http://localhost:9000/bookingservice/api/flight/ticket/PNR17645920003131>

☰ Docs Params Authorization Headers (7) Body Scripts Settings

none form-data x-www-form-urlencoded raw binary GraphQL **Text** ▾

1 Context Add + New Alert AT

Body Cookies Headers (3) Test Results | ⏪ 200 OK

{ } JSON ▾ ▶ Preview ⚙ Visualize ▾

```
1 {
2   "bookedByUsers": {
3     "email": "vishnuvaradhankr@gmail.com",
4     "gender": "MALE",
5     "id": 1,
6     "name": "Vinod Patel"
7   },
8   "id": 20013,
9   "passengers": [
10    {
11      "gender": "MALE",
12      "id": 20024,
13      "mealOption": "VEG",
14      "name": "Ramesh Kumar",
15      "seatPosition": "2C"
16    },
17    {
18      "gender": "FEMALE",
19      "id": 20025,
20      "mealOption": "NONVEG",
21      "name": "Anita Singh"
22    }
23  ]
24}
```

5) <http://localhost:9000/bookingservice/api/flight/booking/history/vishnuvaradhankr@gmail.com>

HTTP Chubb / Booking Service / Get details using email

GET http://localhost:9000/bookingservice/api/flight/booking/history/vishnuvaradhankr@gmail.com

☰ Docs Params Authorization Headers (7) Body Scripts Settings

(none) form-data x-www-form-urlencoded raw binary GraphQL Text

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

Body Cookies Headers (4) Test Results

200 OK

{ } JSON ▶ Preview Visualize

```
1 [  
2   {  
3     "bookedByUsers": {  
4       "email": "vishnuvaradhankr@gmail.com",  
5       "gender": "MALE",  
6       "id": 1,  
7       "name": "Vinod Patel"  
8     },  
9     "id": 2,  
10    "passengers": [  
11      {  
12        "gender": "MALE",  
13        "id": 1,  
14        "mealOption": null,  
15        "name": "Ramesh Kumar",  
16        "seatPosition": "4A"  
17      },  
18      {  
19        "gender": "FEMALE",  
20        "id": 2,  
21        "mealOption": "NONVEG"
```

6) <http://localhost:9000/bookingservice/api/flight/booking/cancel/PNR17645214757551>

HTTP Chubb / Booking Service / Cancel a ticket

DELETE ▾ http://localhost:9000/bookingservice/api/flight/booking/cancel/PNR17645214757551

☰ Docs Params Authorization Headers (7) Body Scripts Settings

Body Cookies Headers (1) Test Results | ⏱ 204 No Content • 19 ms

Raw ▾ ▷ Preview ⚡ Visualize ▾

1 |

A screenshot of the Postman application interface. At the top, there's a header bar with the text "HTTP Chubb / Booking Service / Cancel a ticket". Below it is a search bar containing the URL "http://localhost:9000/bookingservice/api/flight/booking/cancel/PNR17645214757551". The main area shows a "DELETE" method selected. There are tabs for "Docs", "Params", "Authorization", "Headers (7)", "Body", "Scripts", and "Settings". The "Headers" tab is active, showing one entry. Below the tabs, there are buttons for "Raw", "Preview", and "Visualize". On the right side, the status is shown as "204 No Content" with a timestamp of "19 ms". At the bottom, there's a text input field with the number "1" followed by a vertical line.

7) Signin

HTTP Chubb / Auth / **singin**

POST http://localhost:9000/authservice/api/auth/signin

Docs Params Authorization Headers (10) **Body** Scripts Settings

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

```
1 {  
2   "username": "roy",  
3   "email": "roy@gmail.com",  
4   "password": "TheStrongestPassword1222231321@000"  
5 }  
6
```

Body Cookies (1) Headers (10) Test Results

{ } JSON Preview Visualize

```
1 {  
2   "id": 10,  
3   "username": "roy",  
4   "email": "roy@gmail.com",  
5   "roles": [  
6     "ROLE_ADMIN",  
7     "ROLE_USER"  
8   ]  
9 }
```

8) signup

POST http://localhost:9000/authservice/api/auth/signup

Docs Params Authorization Headers (10) **Body** Scripts Settings

none form-data x-www-form-urlencoded raw binary GraphQL

```
1 {  
2   "username": "Ramesh",  
3   "email": "ramesh@gmail.com",  
4   "password": "TheStrongestPassword1222231321@000"  
5 }
```

Body Cookies (1) Headers (9) Test Results

{ } JSON Preview Visualize

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

API Request body and example response:

1) <http://localhost:9000/flightservice/api/flight/airline/inventory> (add flight)

Request:

```
{  
  "flightId": 5,  
  "fromCityId": 4,  
  "toCityId": 2,  
  "departureDate": "2026-07-18",  
  "departureTime": "2026-07-18T09:30:00",  
  "price": 4500.50,  
  "seatsAvailable": 120,  
  "duration": 180  
}
```

Response:

```
{  
  "departureDate": "2026-07-19",  
  "departureTime": "2026-07-19T09:30:00",  
  "duration": 180,  
  "flight": {  
    "airline": {  
      "airlineName": "Spice Jet",  
      "id": 3  
    },  
    "columns": 6,  
    "id": 5,  
    "name": "SJ505",  
    "rows": 26,  
    "year": 2025  
  },  
  "fromCity": {  
    "airportCode": "BLR",  
    "cityName": "Bengaluru",  
    "id": 4  
  },  
  "id": 70015,  
  "price": 4500.5,  
  "seatsAvailable": 156,  
  "toCity": {  
    "airportCode": "BOM",  
    "cityName": "Mumbai",  
    "id": 2  
  }  
}
```

2) <http://localhost:9000/flightservice/api/flight/search> (Search for flight)

Request:

```
{  
  "fromCityCode": "BLR",  
  "toCityCode": "BOM",  
  "date": "2026-01-22"  
}
```

Response:

```
[  
  {  
    "departureDate": "2026-01-22",  
    "departureTime": "2026-01-21T09:30:00",  
    "duration": 180,  
    "flight": {  
      "airline": {  
        "airlineName": "Spice Jet",  
        "id": 3  
      },  
      "columns": 6,  
      "id": 5,  
      "name": "SJ505",  
      "rows": 26,  
      "year": 2025  
    },  
    "fromCity": {  
      "airportCode": "BLR",  
      "cityName": "Bengaluru",  
      "id": 4  
    },  
    "id": 10004,  
    "price": 4500.5,  
    "seatsAvailable": 120,  
    "toCity": {  
      "airportCode": "BOM",  
      "cityName": "Mumbai",  
      "id": 2  
    }  
  }  
]
```

3) <http://localhost:9000/bookingservice/api/flight/booking/3> (book ticket)

Request:

```
{  
  "user": {  
    "id": 1,  
    "name": "Vinod Patel",  
    "email": "vishnuvaradhankr@gmail.com",  
    "gender": "MALE"  
  },  
  "scheduleId": 10,  
  "returnTripId": null,  
  "passengers": [  
    {  
      "name": "Ramesh Kumar",  
      "gender": "MALE",  
      "meal": "VEG",  
      "seatPos": "13C"  
    }  
  ]  
}
```

Response:

```
{  
  "bookedByUsers": {  
    "email": "vishnuvaradhankr@gmail.com",  
    "gender": "MALE",  
    "id": 1,  
    "name": "Vinod Patel"  
  },  
  "id": 30023,  
  "passengers": [  
    {  
      "gender": "MALE",  
      "id": 30004,  
      "mealOption": "VEG",  
      "name": "Ramesh Kumar",  
      "seatPosition": "13C"  
    }  
  ],  
  "pnr": "PNR17646382318681",  
  "returnTripScheduleId": null,  
  "scheduleId": 10,  
  "status": "BOOKED"  
}
```

4) <http://localhost:9000/bookingservice/api/flight/ticket/PNR17645920003131> (search using pnr)

Response:

```
{  
  "bookedByUsers": {  
    "email": "vishnuvaradhankr@gmail.com",  
    "gender": "MALE",  
    "id": 1,  
    "name": "Vinod Patel"  
  },  
  "id": 30023,  
  "passengers": [  
    {  
      "gender": "MALE",  
      "id": 30004,  
      "mealOption": "VEG",  
      "name": "Ramesh Kumar",  
      "seatPosition": "13C"  
    }  
  ],  
  "pnr": "PNR17646382318681",  
  "returnTripScheduleId": null,  
  "scheduleId": 10,  
  "status": "BOOKED"  
}
```

5)

<http://localhost:9000/bookingservice/api/flight/booking/history/vishnuvaradhankr@gmail.com>
(Search history using email)

Response:

```
[{
  "bookedByUsers": {
    "email": "vishnuvaradhankr@gmail.com",
    "gender": "MALE",
    "id": 1,
    "name": "Vinod Patel",
    "id": 2,
    "passengers": [
      {"gender": "FEMALE",
       "id": 2,
       "mealOption": "NONVEG",
       "name": "Anita Singh",
       "seatPosition": "5B"
     }
    ],
    "pnr": "PNR17643280656201",
    "returnTripScheduleId": null,
    "scheduleId": 1,
    "status": "CANCELED"
  },
  {
    "bookedByUsers": {
      "email": "vishnuvaradhankr@gmail.com",
      "gender": "MALE",
      "id": 1,
      "name": "Vinod Patel"
    },
    "id": 4,
    "passengers": [
      {
        "gender": "MALE",
        "id": 3,
        "mealOption": null,
        "name": "Ramesh Kumar",
        "seatPosition": null
      }
    ],
    "pnr": "PNR17643286947351",
    "returnTripScheduleId": null,
    "scheduleId": 2,
    "status": "BOOKED"
  }
}]
```

6) <http://localhost:9000/bookingservice/api/flight/booking/cancel/PNR17646373940441>
(cancellation of ticket)

Response: 204 No content