

# **FLIGHT BOOKING SYSTEM**

**OUTPUTS, REPORTS AND ANALYSIS**

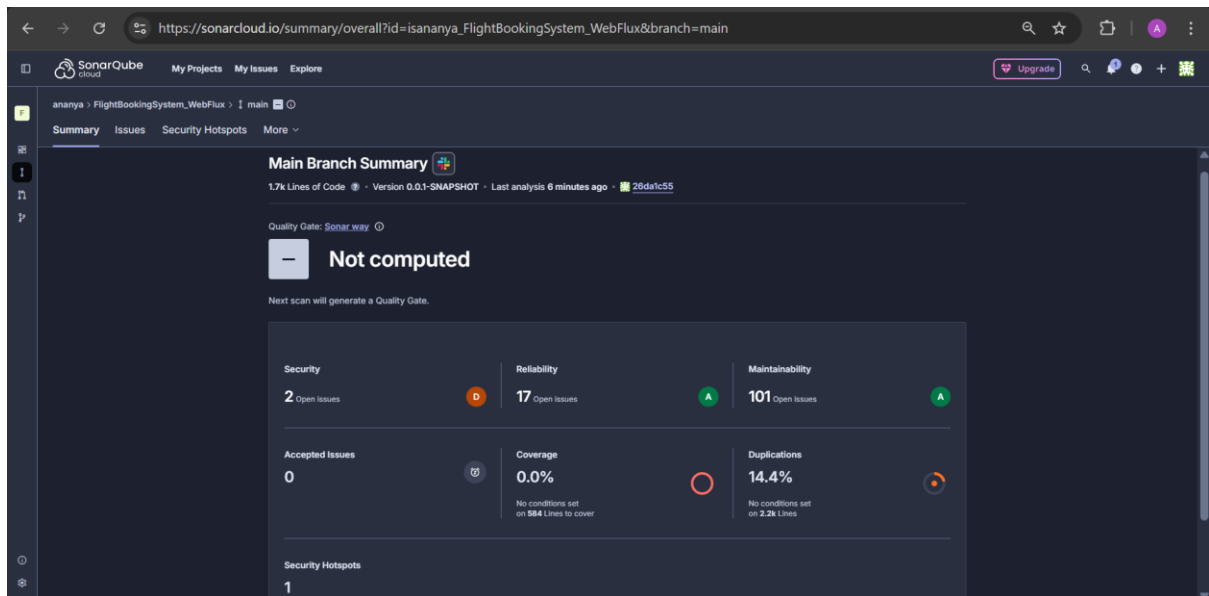
**BY ANANYA NAYAK**

# SonarQube Analysis Reports

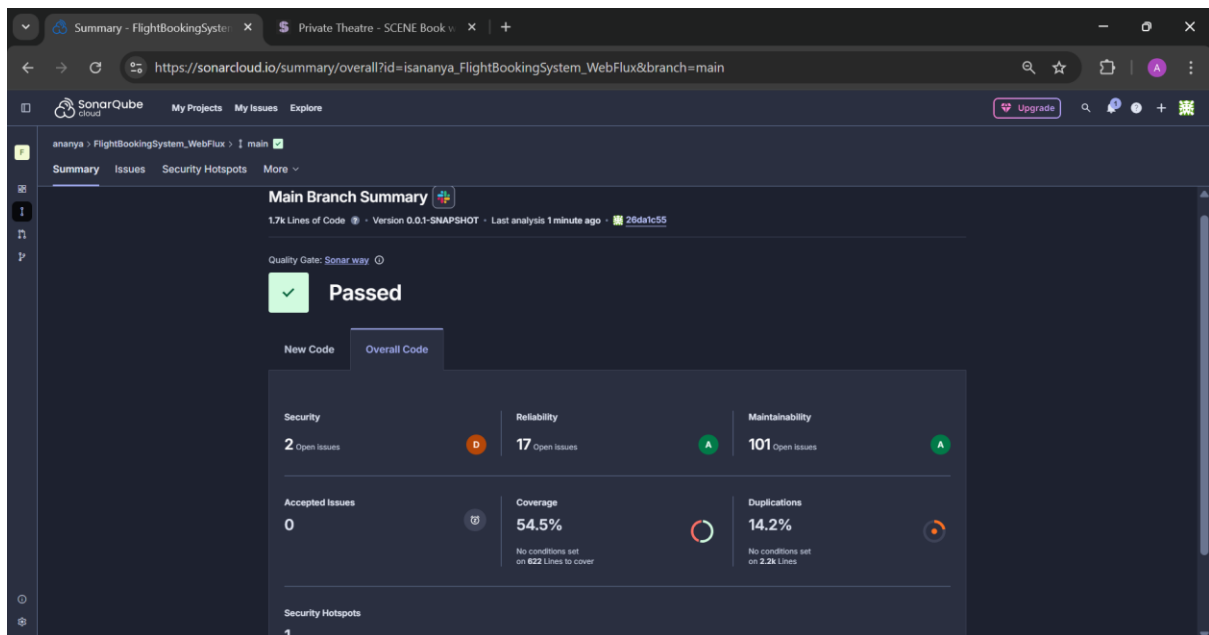
## Running analysis :

```
C:\Windows\System32\cmd.e x + v
[INFO] 12:51:25.447 * Files successfully loaded: "40" out of "40"
[INFO] 12:51:25.448 * Protobuf reading complete | memory total=1478 | free=799 | used=678 (MB)
[INFO] 12:51:25.517 * Build architecture.graph.java.namespace_graph.default_perspective hierarchy graph complete (filtered=false) | memory total=1478 | free=799 | used=687 (MB)
[INFO] 12:51:25.547 Sensor JavaArchitectureSensor [architecture] (done) | time=1324ms
[INFO] 12:51:25.547 Sensor Zero Coverage Sensor
[INFO] 12:51:25.582 Sensor Zero Coverage Sensor (done) | time=35ms
[INFO] 12:51:25.583 Sensor Java CPD Block Indexer
[INFO] 12:51:25.649 Sensor Java CPD Block Indexer (done) | time=66ms
[INFO] 12:51:26.346 Inferred api base url 'https://api.sonarcloud.io' from host url 'https://sonarcloud.io'.
[INFO] 12:51:26.349 ----- Gather SCA dependencies on project
[INFO] 12:51:26.349 Checking if SCA is enabled for organization ananya
[INFO] 12:51:26.985 Dependency analysis skipped
[INFO] 12:51:26.910 CPD Executor 15 files had no CPD blocks
[INFO] 12:51:26.910 CPD Executor Calculating CPD for 21 files
[INFO] 12:51:26.937 CPD Executor CPD calculation finished (done) | time=27ms
[INFO] 12:51:26.938 SCM Publisher SCM provider for this project is: git
[INFO] 12:51:26.939 SCM Publisher 41 source files to be analyzed
[INFO] 12:51:29.013 SCM Publisher 39/41 source files have been analyzed (done) | time=2072ms
[WARNING] 12:51:29.013 Missing blame information for the following files:
[WARNING] 12:51:29.013 * pom.xml
[WARNING] 12:51:29.013 * src/main/java/com/chubb/FlightBookingSystem/controller/BookingController.java
[WARNING] 12:51:29.013 This may lead to missing/broken features in SonarCloud
[INFO] 12:51:32.187 Analysis report generated in 271ms, dir size=490 KB
[INFO] 12:51:32.349 Analysis report compressed in 136ms, zip size=169 KB
[INFO] 12:51:33.532 Analysis report uploaded in 1182ms
[INFO] 12:51:33.534 ANALYSIS SUCCESSFUL, you can find the results at: https://sonarcloud.io/dashboard?id=isananya_FlightBookingSystem_WebFlux
[INFO] 12:51:33.534 Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
[INFO] 12:51:33.534 More about the report processing at https://sonarcloud.io/api/ce/task?id=AZq0vT6YCaV_j4Mn-3MB
[INFO] 12:51:33.534 ----- Upload SCA dependency files
[INFO] 12:51:35.740 Sensor cache published successfully
[INFO] 12:51:35.815 Analysis total time: 58.090 s
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:28 min
[INFO] Finished at: 2025-11-24T12:51:35+05:30
[INFO] -----
D:\CHUBB_Training\FlightBookingSystem_WebFlux\FlightBookingSystem_WebFlux>
```

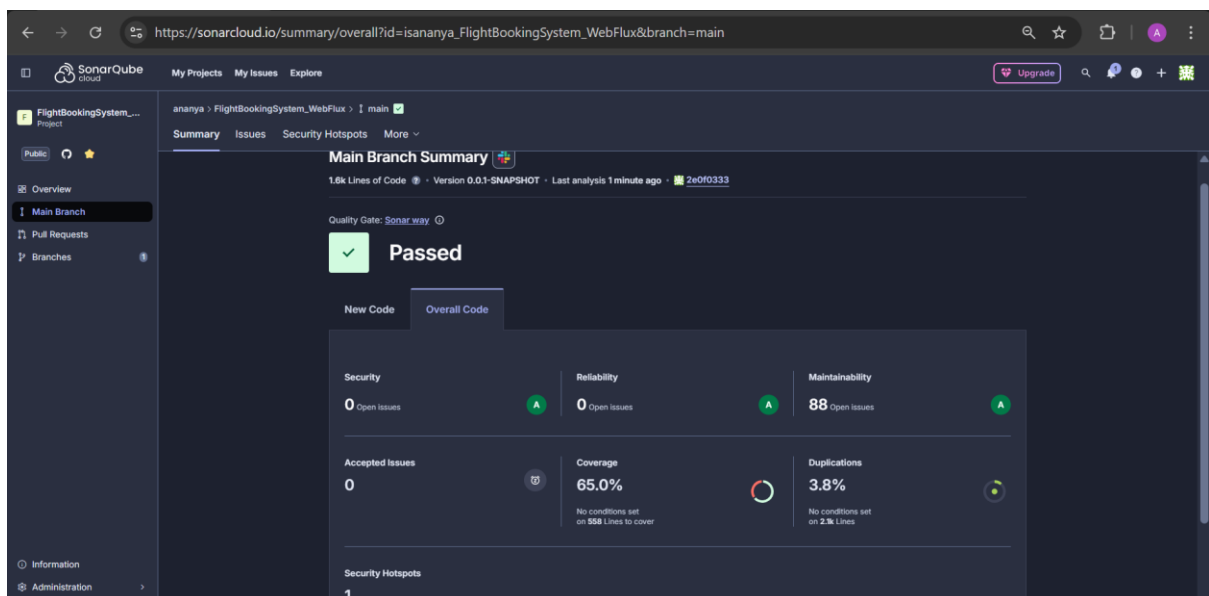
## Before Improvement :



After setting up coverage (jacoco) :



Final Analysis



# JMeter Summary Reports

20 samples :

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 User	20	5	4	16	2.55	0.00%	20.9/sec	2.21	7.70	108.0
Add Flight	20	3	2	5	1.02	0.00%	21.2/sec	1.83	7.99	88.5
Add Schedule	20	4	2	8	1.20	100.00%	21.2/sec	244.19	7.69	11815.0
Search Flights	20	2	2	4	0.62	0.00%	21.2/sec	8.16	7.34	395.0
Add Booking	20	4	3	6	0.81	0.00%	21.1/sec	0.78	14.81	38.0
Get ticket usi...	20	6	4	10	1.32	0.00%	21.1/sec	11.41	3.68	555.0
Booking His...	20	7	5	10	1.26	0.00%	21.1/sec	11.41	4.03	555.0
Cancel Booki...	20	2	1	4	0.62	100.00%	21.2/sec	0.97	4.32	47.0
TOTAL	160	4	1	16	2.14	25.00%	162.3/sec	269.43	55.30	1700.2

50 samples:

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 User	50	5	3	17	1.88	0.00%	50.8/sec	5.35	18.72	108.0
Add Flight	50	4	3	12	1.49	0.00%	51.4/sec	4.46	19.38	88.8
Add Schedule	50	5	4	8	1.21	100.00%	51.5/sec	594.13	18.71	11815.0
Search Flights	50	3	2	5	0.75	0.00%	51.7/sec	19.92	17.91	395.0
Add Booking	50	5	4	8	1.04	0.00%	51.7/sec	1.92	36.22	38.0
Get ticket usi...	50	7	5	14	1.55	0.00%	51.7/sec	28.00	9.03	555.0
Booking His...	50	7	5	12	1.47	0.00%	51.8/sec	28.05	9.91	555.0
Cancel Booki...	50	2	1	6	0.89	100.00%	52.2/sec	2.40	10.66	47.0
TOTAL	400	5	1	17	2.24	25.00%	395.3/sec	656.28	134.73	1700.2

100 Samples :

Summary Report

Name:

Summary Report

Comments:

Write results to file / Read from file

Filename

Browse...

Log/Display Only:

☐ Errors

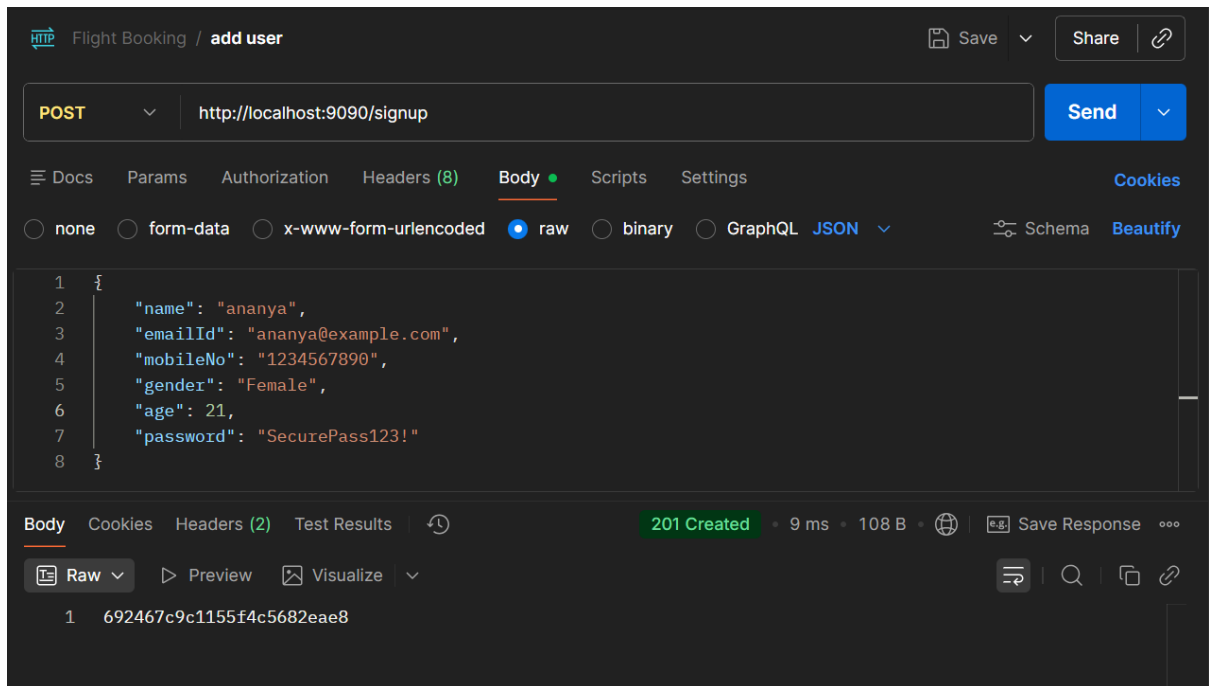
☐ Successes

Configure

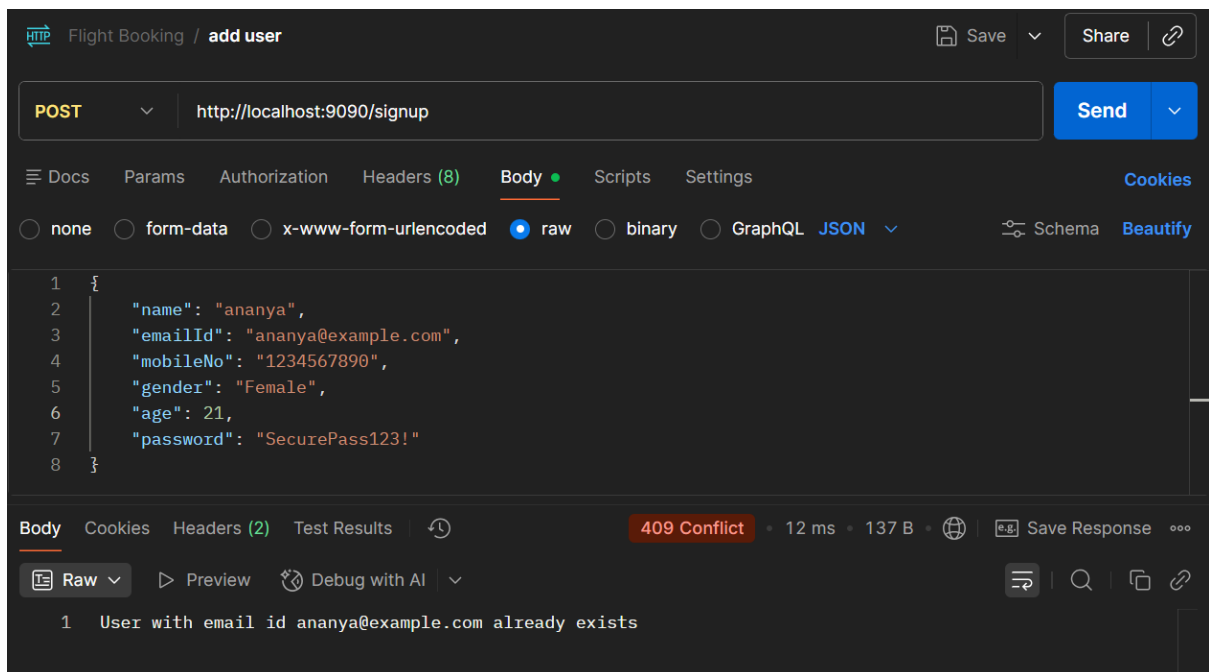
Label	# Samples ↓	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB...	Sent KB/sec	Avg. Bytes
Add User	100	17	3	63	12.71	1.00%	97.3/sec	21.31	35.89	224.4
Add Flight	100	15	3	58	11.80	0.00%	95.8/sec	8.32	36.10	88.9
Add Schedule	100	16	3	39	10.63	100.00%	93.0/sec	1073.31	33.79	11815.0
Search Flights	100	10	2	51	8.14	0.00%	92.5/sec	35.68	32.07	395.0
Add Booking	100	23	4	61	15.03	0.00%	90.3/sec	3.35	63.34	38.0
Get ticket usi...	100	28	6	79	18.09	0.00%	87.3/sec	47.29	15.25	555.0
Booking His...	100	27	6	96	18.98	0.00%	86.7/sec	46.97	16.59	555.0
Cancel Booki...	100	8	2	46	6.96	100.00%	86.8/sec	3.98	17.72	47.0
TOTAL	800	18	2	96	15.10	25.12%	664.5/sec	1112.69	226.52	1714.8

# Postman Screenshots

## Add User:



## Add User fail:



## Add Flight:

The screenshot shows a REST client interface for a "Flight Booking" API. The endpoint is `http://localhost:9090/airline/route/add` with a `POST` method. The request body is a JSON object: `{ "flightNumber": "AI102", "sourceAirport": "BOM", "destinationAirport": "DEL", "departureTime": "08:30:00", "arrivalTime": "10:45:00", "duration": "PT2H15M" }`. The response status is `201 Created` with a response time of 16 ms and a body size of 88 B. The response body is `AI102`.

```
1 {
2   "flightNumber": "AI102",
3   "sourceAirport": "BOM",
4   "destinationAirport": "DEL",
5   "departureTime": "08:30:00",
6   "arrivalTime": "10:45:00",
7   "duration": "PT2H15M"
8 }
```

201 Created • 16 ms • 88 B • [Save Response](#)

Raw Preview Visualize

```
1 AI102
```

## Add flight fail:

The screenshot shows the same REST client interface as above, but the response status is `409 Conflict` with a response time of 31 ms and a body size of 119 B. The response body is `Flight Number AI102 already exists`.

```
1 {
2   "flightNumber": "AI102",
3   "sourceAirport": "BOM",
4   "destinationAirport": "DEL",
5   "departureTime": "08:30:00",
6   "arrivalTime": "10:45:00",
7   "duration": "PT2H15M"
8 }
```

409 Conflict • 31 ms • 119 B • [Save Response](#)

Raw Preview Debug with AI

```
1 Flight Number AI102 already exists
```

## Add schedule:

The screenshot shows a REST client interface for a "Flight Booking" project. The endpoint is `http://localhost:9090/airline/inventory/add` with a `POST` method. The request body is a JSON object: `{ "airlineName": "Air India Express", "departureDate": "2025-11-27", "basePrice": 4500.0, "totalSeats": 180, "availableSeats": 180, "flightNumber": "AI102" }`. The response status is `201 Created` with a response time of 7 ms and a body size of 108 B. The response body is a long alphanumeric string: `69246880c1155f4c5682eae9`.

```
1 {
2   "airlineName": "Air India Express",
3   "departureDate": "2025-11-27",
4   "basePrice": 4500.0,
5   "totalSeats": 180,
6   "availableSeats": 180,
7   "flightNumber": "AI102"
8 }
```

Body Cookies Headers (2) Test Results 201 Created • 7 ms • 108 B • Save Response

Raw Preview Visualize

```
1 69246880c1155f4c5682eae9
```

## Add schedule fail:

The screenshot shows the same REST client interface as above, but the request has failed. The response status is `409 Conflict` with a response time of 15 ms and a body size of 149 B. The response body is a message: `Schedule with Flight NumberAI102 already scheduled on 2025-11-27`.

```
1 {
2   "airlineName": "Air India Express",
3   "departureDate": "2025-11-27",
4   "basePrice": 4500.0,
5   "totalSeats": 180,
6   "availableSeats": 180,
7   "flightNumber": "AI102"
8 }
```

Body Cookies Headers (2) Test Results 409 Conflict • 15 ms • 149 B • Save Response

Raw Preview Debug with AI

```
1 Schedule with Flight NumberAI102 already scheduled on 2025-11-27
```

## Search flight:

The screenshot shows a REST client interface for a "Flight Booking" API. The endpoint is `http://localhost:9090/flights/search` with a `POST` method. The request body is a JSON object: `{ "sourceAirport": "BOM", "destinationAirport": "DEL", "roundTrip": false, "departureDate": "2025-11-27", "passengerCount": 2 }`. The response is a `200 OK` status with a `5 ms` response time and `395 B` of data. The response body is a JSON object: `{ "departureCount": 1, "returnCount": 0, "departure": [ { "airlineName": "Air India Express", "arrivalTime": "10:45:00", "basePrice": 4500.0, ... } ] }`.

```
1 {
2   "sourceAirport": "BOM",
3   "destinationAirport": "DEL",
4   "roundTrip": false,
5   "departureDate": "2025-11-27",
6   "passengerCount": 2
7 }
```

Body Cookies Headers (2) Test Results 200 OK • 5 ms • 395 B Save Response

{ } JSON Preview Visualize

```
1 {
2   "departureCount": 1,
3   "returnCount": 0,
4   "departure": [
5     {
6       "airlineName": "Air India Express",
7       "arrivalTime": "10:45:00",
8       "basePrice": 4500.0,
```

## Booking:

The screenshot shows a REST client interface for a "Flight Booking" API. The endpoint is `http://localhost:9090/booking` with a `POST` method. The request body is a JSON object: `{ "emailId": "user@gmail.com", "departureScheduleId": "692466ecc1155f4c5682ea81", "returnScheduleId": "6923f9cb4a5569b042ffaa45", "roundTrip": false, "passengerCount": 2, "passengers": [ { "firstName": "ananya", "lastName": "nayak", "age": 21, "departureSeatNumber": "2B", "returnSeatNumber": "2B", "gender": "FEMALE", ... } ] }`. The response is a `201 Created` status with a `11 ms` response time and `116 B` of data. The response body is a plain text message: `Booking Successful! PNR : XUg5FM`.

```
1 {
2   "emailId": "user@gmail.com",
3   "departureScheduleId": "692466ecc1155f4c5682ea81",
4   // "returnScheduleId" : "6923f9cb4a5569b042ffaa45",
5   "roundTrip": false,
6   "passengerCount": 2,
7   "passengers": [
8     {
9       "firstName": "ananya",
10      "lastName": "nayak",
11      "age": 21,
12      "departureSeatNumber": "2B",
13      // "returnSeatNumber": "2B",
14      "gender": "FEMALE",
15      ...
16    }
17  ]
18 }
```

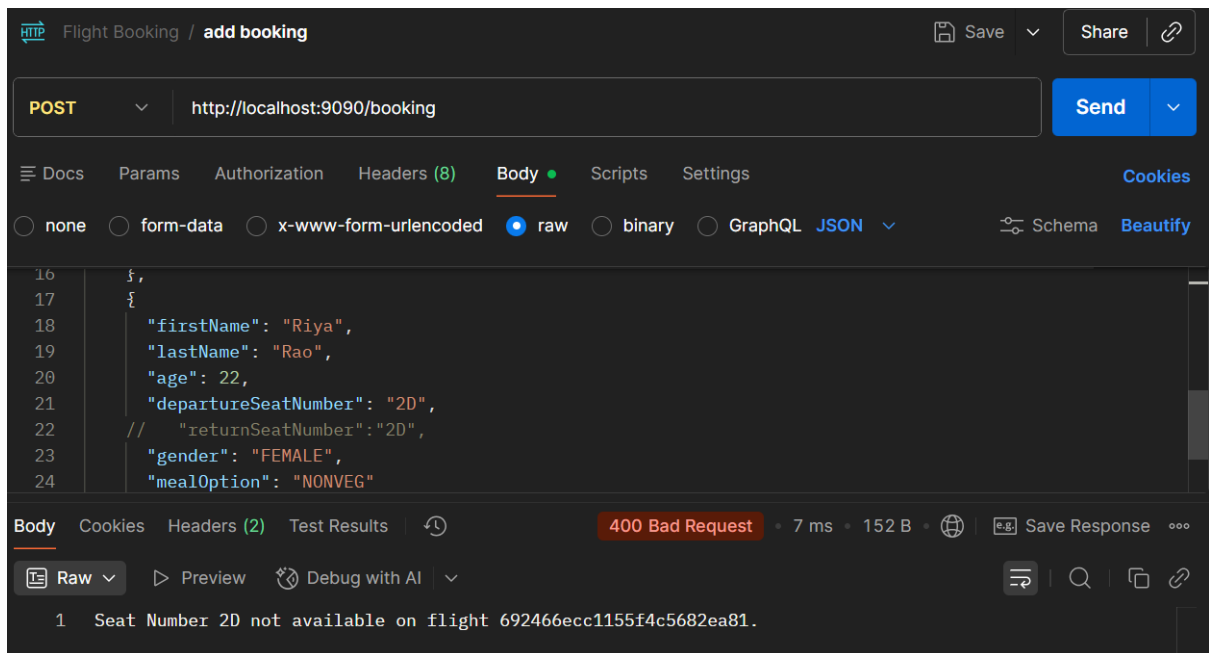
Body Cookies Headers (2) Test Results 201 Created • 11 ms • 116 B Save Response

Raw Preview Visualize

```
1 Booking Successful! PNR : XUg5FM
```



## Seat not available while booking:



Flight Booking / **add booking**

POST http://localhost:9090/booking

Send

Docs Params Authorization Headers (8) **Body** Scripts Settings Cookies

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

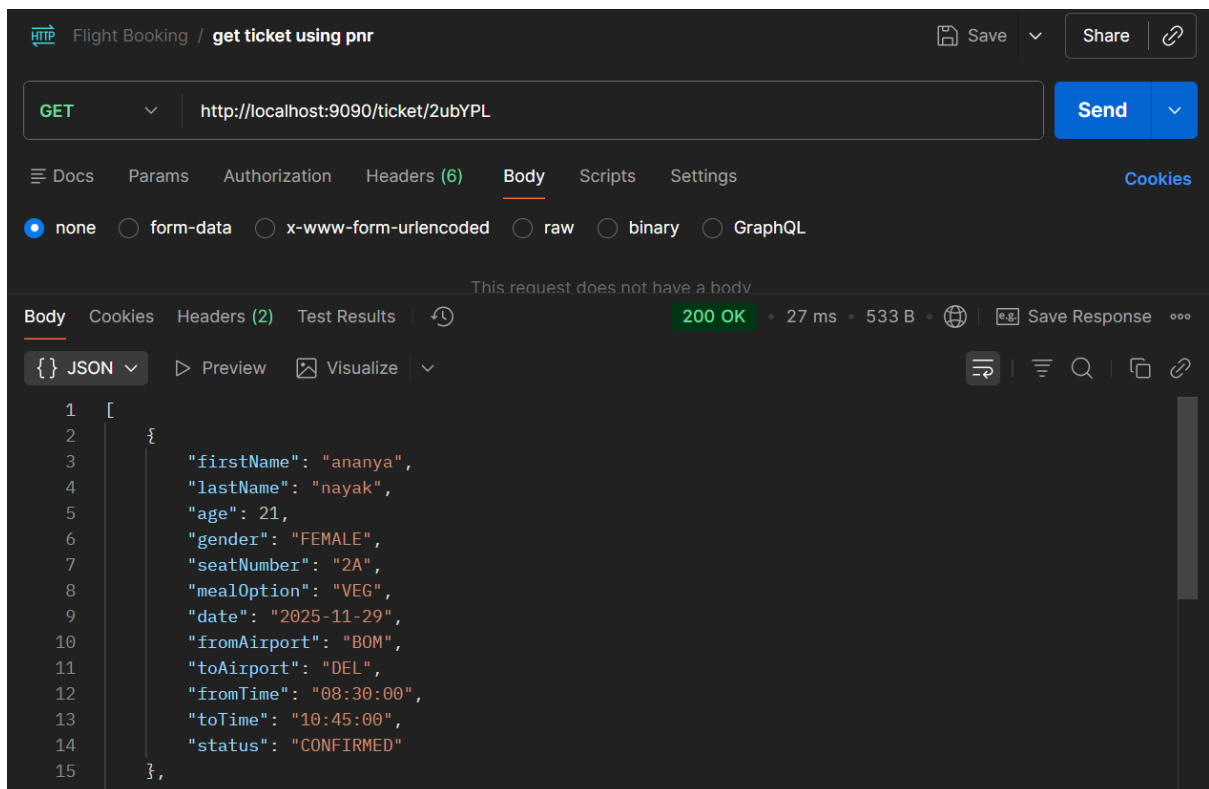
```
16 {,
17   {
18     "firstName": "Riya",
19     "lastName": "Rao",
20     "age": 22,
21     "departureSeatNumber": "2D",
22     // "returnSeatNumber": "2D",
23     "gender": "FEMALE",
24     "mealOption": "NONVEG"
```

Body Cookies Headers (2) Test Results 400 Bad Request • 7 ms • 152 B Save Response

Raw Preview Debug with AI

1 Seat Number 2D not available on flight 692466ecc1155f4c5682ea81.

## Get tickets by pnr:



Flight Booking / **get ticket using pnr**

GET http://localhost:9090/ticket/2ubYPL

Send

Docs Params Authorization Headers (6) **Body** Scripts Settings Cookies

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

This request does not have a body

Body Cookies Headers (2) Test Results 200 OK • 27 ms • 533 B Save Response

{ } JSON Preview Visualize

```
1 [
2   {
3     "firstName": "ananya",
4     "lastName": "nayak",
5     "age": 21,
6     "gender": "FEMALE",
7     "seatNumber": "2A",
8     "mealOption": "VEG",
9     "date": "2025-11-29",
10    "fromAirport": "BOM",
11    "toAirport": "DEL",
12    "fromTime": "08:30:00",
13    "toTime": "10:45:00",
14    "status": "CONFIRMED"
15  },
16 ]
```

## Booking not found (pnr doesn't exist)

The screenshot shows a REST client interface for a "Flight Booking" application. The request is a GET to `http://localhost:9090/ticket/2uXYZZ`. The response is a 404 Not Found, with a status bar indicating "404 Not Found" in red, a response time of 4 ms, and a body size of 115 B. The response body is displayed in "Raw" format as a single line: "1 Booking not found with 2uXYZZ".

Flight Booking / **get ticket using pnr**

GET `http://localhost:9090/ticket/2uXYZZ` Send

Docs Params Authorization Headers (6) **Body** Scripts Settings Cookies

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

This request does not have a body

Body Cookies Headers (2) Test Results 404 Not Found • 4 ms • 115 B Save Response

Raw Preview Debug with AI

1 Booking not found with 2uXYZZ

## Booking history by email:

The screenshot shows a REST client interface for a "Flight Booking" application. The request is a GET to `http://localhost:9090/booking/history/user@gmail.com`. The response is a 200 OK, with a status bar indicating "200 OK" in green, a response time of 8 ms, and a body size of 986 B. The response body is displayed in "JSON" format, showing a list of two booking records for the user.

Flight Booking / **booking history**

GET `http://localhost:9090/booking/history/user@gmail.com` Send

Docs Params Authorization Headers (6) **Body** Scripts Settings Cookies

Body Cookies Headers (2) Test Results 200 OK • 8 ms • 986 B Save Response

{ } JSON Preview Visualize

```
1 [
2   {
3     "firstName": "Riya",
4     "lastName": "Rao",
5     "age": 22,
6     "gender": "FEMALE",
7     "seatNumber": "2D",
8     "mealOption": "NONVEG",
9     "date": "2025-11-29",
10    "fromAirport": "BOM",
11    "toAirport": "DEL",
12    "fromTime": "08:30:00",
13    "toTime": "10:45:00",
14    "status": "CONFIRMED"
15  },
16  {
17    "firstName": "ananya",
18    "lastName": "nayak",
19    "age": 21,
```

## Boooking not found using email:

The screenshot shows a REST client interface for a "Flight Booking" application. The active tab is "booking history". A GET request is configured with the URL "http://localhost:9090/booking/history/user123@gmail.com". The response is a "404 Not Found" status, with a response time of 6 ms and a body size of 126 B. The response body is displayed in "Raw" format as "1 Booking not found with user123@gmail.com".

## Delete booking :

The screenshot shows a REST client interface for a "Flight Booking" application. The active tab is "delete booking". A DELETE request is configured with the URL "http://localhost:9090/booking/cancel/XUg5FM". The response is a "200 OK" status, with a response time of 11 ms and a body size of 38 B. The response body is displayed in "Raw" format as "1".