

FLIGHT BOOKING SYSTEM

OUTPUTS, REPORTS AND ANALYSIS

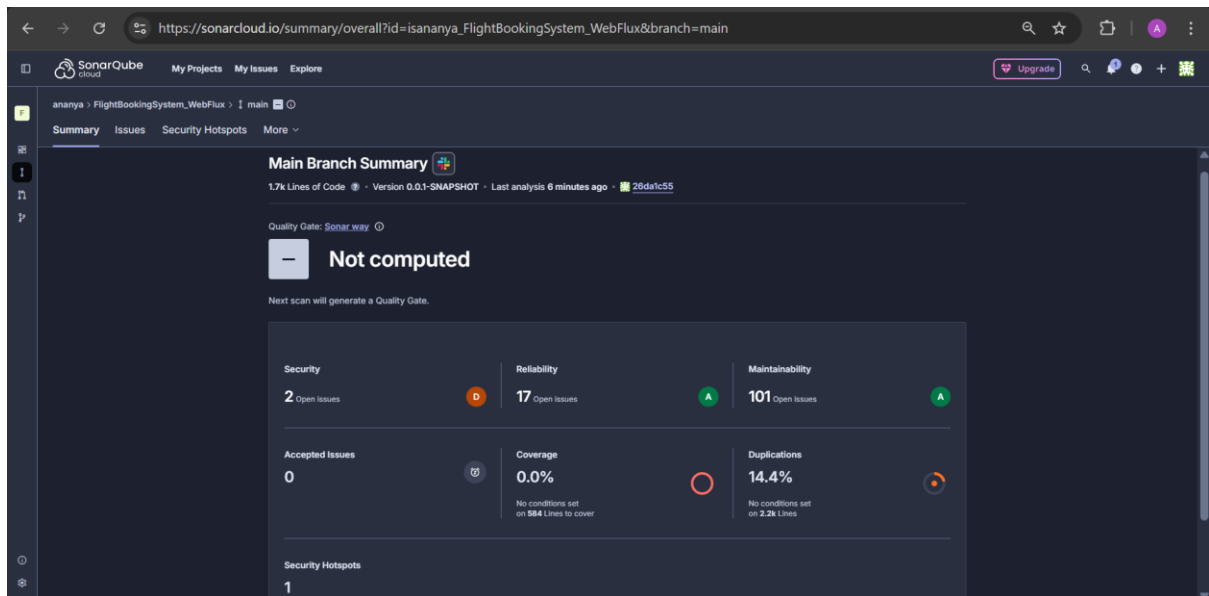
BY ANANYA NAYAK

SonarQube Analysis Reports

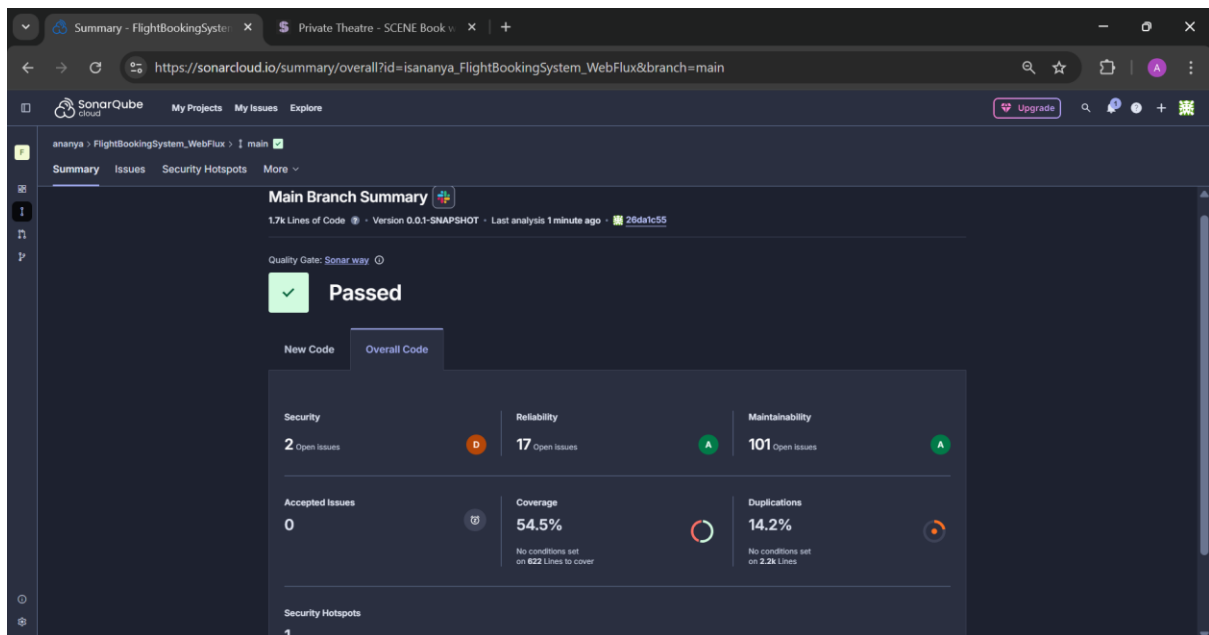
Running analysis :

```
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>
```

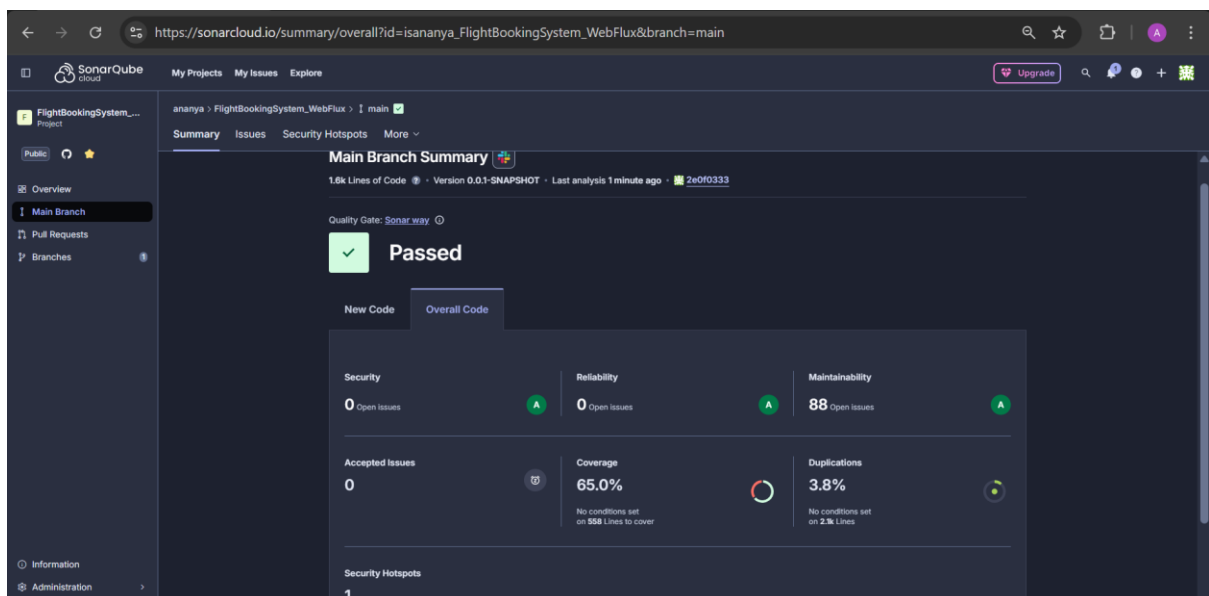
Before Improvement :



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

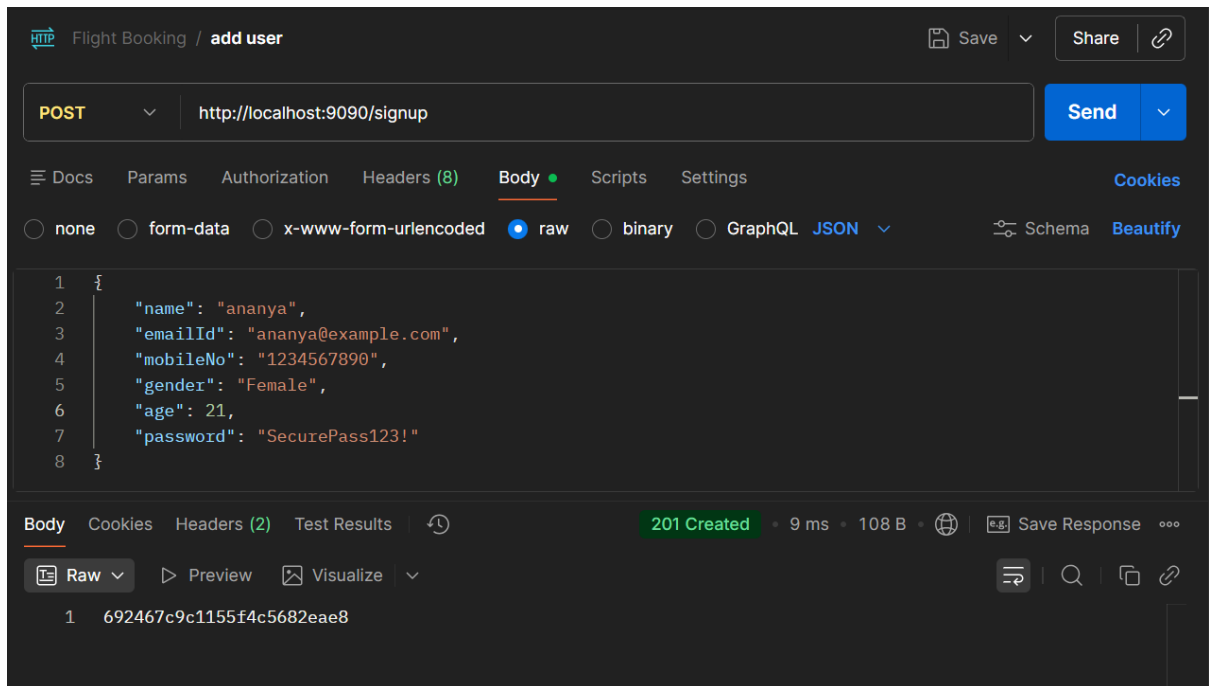
☐ Successes

Configure

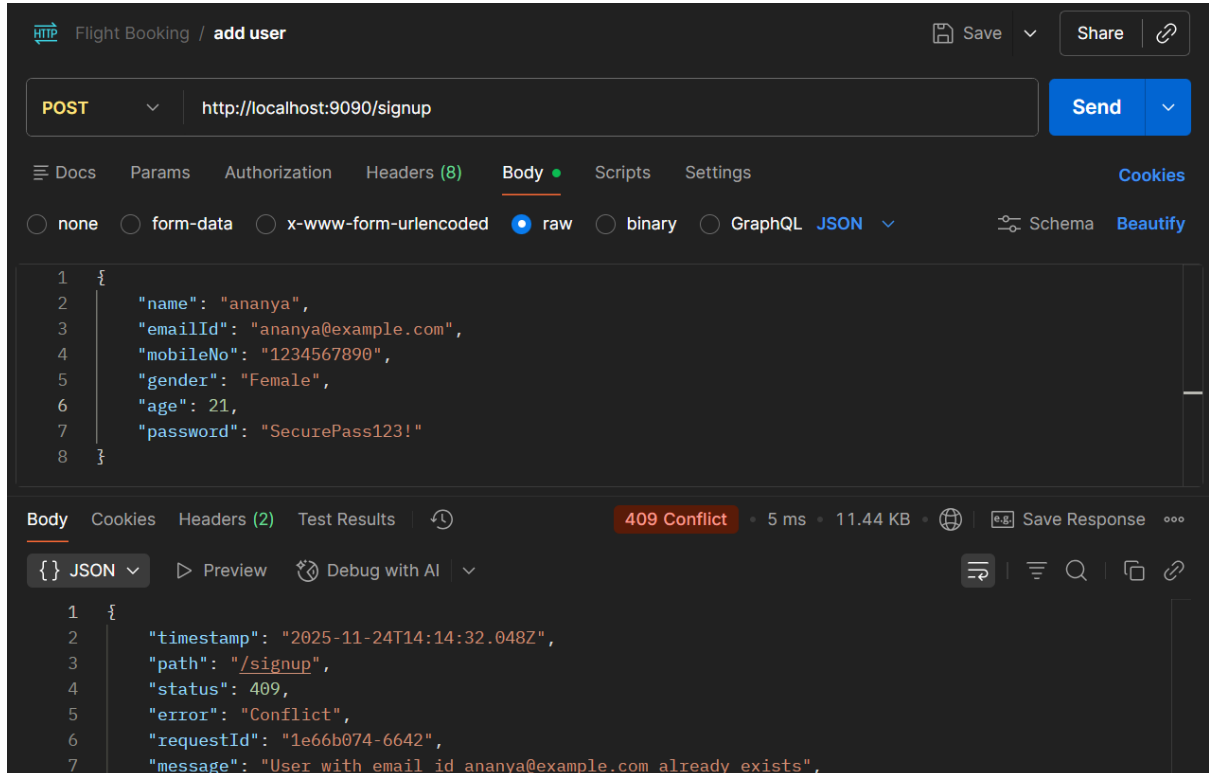
Label	# Samples ↓	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB...	Sent KB/sec	Avg. Bytes
Add User	100	17	3	63	12.71	1.00%	97.3/sec	21.31	35.89	224.4
Add Flight	100	15	3	58	11.80	0.00%	95.8/sec	8.32	36.10	88.9
Add Schedule	100	16	3	39	10.63	100.00%	93.0/sec	1073.31	33.79	11815.0
Search Flights	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 with the following fields: `flightNumber` ("AI102"), `sourceAirport` ("BOM"), `destinationAirport` ("DEL"), `departureTime` ("08:30:00"), `arrivalTime` ("10:45:00"), and `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 shown in "Raw" format as the text "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 }
```

Body Cookies Headers (2) Test Results 201 Created • 16 ms • 88 B • Save Response

Raw Preview Visualize

1 AI102

Add flight fail:

The screenshot shows the same REST client interface, but the request has failed. The response status is `409 Conflict` with a response time of 4 ms and a body size of 11.45 KB. The response body is a JSON object indicating the conflict: `timestamp` ("2025-11-24T14:13:43.702Z"), `path` ("`/airline/route/add`"), `status` (409), `error` ("Conflict"), `requestId` ("1e66b074-6641"), and `message` ("Flight Number AI102 already exists").

```
1 {
2   "timestamp": "2025-11-24T14:13:43.702Z",
3   "path": "/airline/route/add",
4   "status": 409,
5   "error": "Conflict",
6   "requestId": "1e66b074-6641",
7   "message": "Flight Number AI102 already exists",
8 }
```

Body Cookies Headers (2) Test Results 409 Conflict • 4 ms • 11.45 KB • Save Response

{ } JSON Preview Debug with AI

Add schedule:

The screenshot shows a REST client interface for a "Flight Booking" API. The endpoint is `http://localhost:9090/airline/inventory/add` with a `POST` method. The request body is a JSON object:

```
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 }
```

The response status is **201 Created** with a response time of 7 ms and a body size of 108 B. The response body is shown in raw format as the hexadecimal string `69246880c1155f4c5682eae9`.

Add schedule fail:

The screenshot shows the same REST client interface, but the request failed with a **409 Conflict** status. The response time is 6 ms and the body size is 11.54 KB. The response body is shown in JSON format:

```
1 {
2   "timestamp": "2025-11-24T14:15:42.368Z",
3   "path": "/airline/inventory/add",
4   "status": 409,
5   "error": "Conflict",
6   "requestId": "1e66b074-6645",
7   "message": "Schedule with Flight NumberAI102 already scheduled on 2025-11-27",
8 }
```

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

```
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

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


Get tickets by pnr:

Flight Booking / **get ticket using pnr** Save Share

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 history by email:

Flight Booking / **booking history** Save Share

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,
```

Delete booking :

The screenshot shows a REST client interface with the following details:

- URL:** `http://localhost:9090/booking/cancel/XUg5FM`
- Method:** `DELETE`
- Body:** This request does not have a body.
- Response:** `200 OK` (11 ms, 38 B)
- Response Body:** `1`

The interface includes tabs for Docs, Params, Authorization, Headers (6), Body, Scripts, and Settings. The Body tab is currently selected. The response body is displayed in the Raw format.