

Chubb Assignment 3 Report

Newman report (HTML report of the same can be found in the “newman_report” folder)

```
vishnu fedora ../newman newman run Chubb.postman_collection.json
newman
Chubb
jmeter -n -t "/home/vishnu/Documents/Chubb Assignments/FlightBookingMicroservice/Jmeter/Jmeter
Flight Service" -l "/home/vishnu/Documents/Chubb Assignments/FlightBookingMicroservice/Jmeter/results.csv" -e -o
Add flight schedule ments/Chubb Assignments/FlightBookingMicroservice/Jmeter/HTMLReport"
POST http://localhost:9000/flightservice/api/flight/airline/inventory [201 Created, 484B, 37ms]
Search Flight ConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future
POST http://localhost:9000/flightservice/api/flight/search [200 OK, 2.66kB, 8ms]
Booking Service
Search by pnr ConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future
GET http://localhost:9000/bookingservice/api/flight/ticket/PNR17645920003131 [200 OK, 515B, 10ms]
Cancel a ticket DELETE http://localhost:9000/bookingservice/api/flight/booking/cancel/PNR17645214757551 [204 No Content, 64B, 21ms]
Get details using email GET http://localhost:9000/bookingservice/api/flight/booking/history/vishnuvaradhankr@gmail.com [200 OK, 13.52kB, 13ms]
Book ticket POST http://localhost:9000/bookingservice/api/flight/booking/3 [201 Created, 518B, 25ms]
```

	executed	failed
test plan iterations	1	0
requests	6	0
test-scripts	0	0
prerequisite-scripts	0	0
assertions	0	0
total run duration: 174ms		
total data received: 17.06kB (approx)		
average response time: 19ms [min: 8ms, max: 37ms, s.d.: 10ms]		

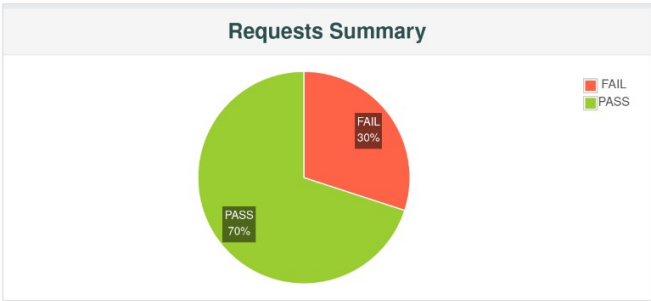
Jmeter Report

Jmeter test using cli **Test plan and Full report available on “Jmeter” folder**

```
vishnu fedora ~/Jmeter jmeter -n -t "/home/vishnu/Documents/Chubb Assignments/FlightBookingMicroservice/Jmeter/TestPlan.jmx" -l "/home/vishnu/Documents/Chubb Assignments/FlightBookingMicroservice/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/FlightBookingMicroservice/Jmeter/TestPlan.jmx
Starting standalone test @ 2025 Dec 1 21:08:20 IST (1764603500402)
Waiting for possible Shutdown/StopTestNow/HeapDump/ThreadDump message on port 4445
summary = 120 in 00:00:01 = 114.3/s Avg: 27 Min: 7 Max: 122 Err: 36 (30.00%)
Tidying up ... @ 2025 Dec 1 21:08:21 IST (1764603501515)
... end of run
```

Test and Report information	
Source file	"results.jtl"
Start Time	"12/1/25, 9:08 PM"
End Time	"12/1/25, 9:08 PM"
Filter for display	***

APDEX (Application Performance Index)			
Apdex	T (Toleration threshold)	F (Frustration threshold)	Label
0.700	500 ms	1 sec 500 ms	Total
0.050	500 ms	1 sec 500 ms	Add Inventory
0.150	500 ms	1 sec 500 ms	Book Ticket
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



Jmeter test using GUI

20 Threads

Test Plan FlightBooking Microservice Add Inventory HTTP Header Manager Search Flight Book Ticket HTTP Header Manager Get Ticket Details by PNR Get Ticket history by email Cancel ticket Summary Report View Results Tree	Summary Report										
	Name: Summary Report										
	Comments:										
	Write results to file / Read from file										
	Filename							Log/Display Only: <input type="checkbox"/> Errors <input type="checkbox"/> Successes <input type="button" value="Configure"/>			
	Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received K...	Sent KB/sec	Avg. Bytes
	Add Invent...	20	8	7	26	4.02	95.00%	20.9/sec	3.97	8.46	194.8
	Search Flight	20	8	5	12	1.57	0.00%	21.3/sec	55.54	5.82	2673.1
	Book Ticket	20	15	11	50	8.15	95.00%	21.3/sec	3.33	13.37	160.4
	Get Ticket ...	20	5	5	8	0.83	0.00%	22.2/sec	11.49	3.61	529.0
	Get Ticket ...	20	26	14	38	5.42	0.00%	21.7/sec	337.57	3.90	15935.3
	Cancel ticket	20	11	9	15	1.45	0.00%	22.3/sec	1.39	5.66	64.0
	TOTAL	120	12	5	50	8.13	31.67%	116.8/sec	371.92	37.07	3259.4

50 Threads

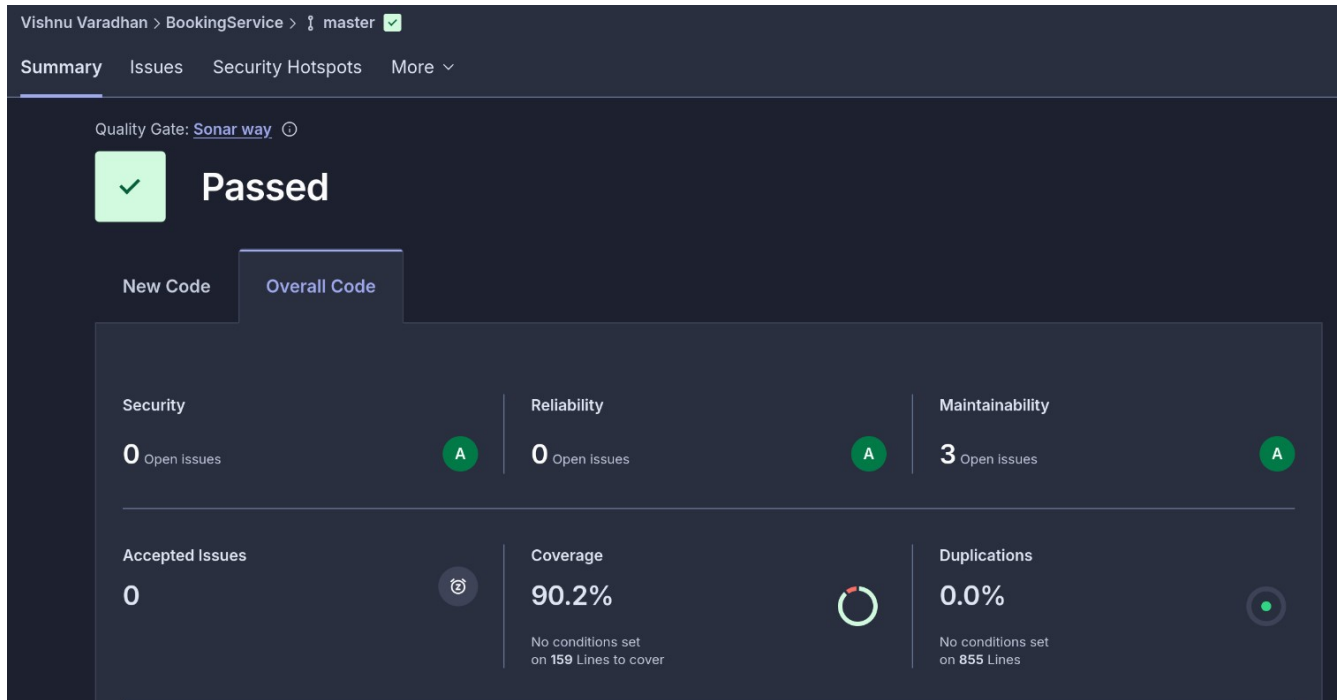
Test Plan FlightBooking Microservice Add Inventory HTTP Header Manager Search Flight HTTP Header Manager Book Ticket HTTP Header Manager Get Ticket Details by PNR Get Ticket history by email Cancel ticket Summary Report View Results Tree	Summary Report										
	Name: Summary Report										
	Comments:										
	Write results to file / Read from file										
	Filename							Log/Display Only: <input type="checkbox"/> Errors <input type="checkbox"/> Successes <input type="button" value="Configure"/>			
	Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received K...	Sent KB/sec	Avg. Bytes
	Add Invent...	50	7	5	26	2.83	98.00%	50.8/sec	9.18	20.57	185.3
	Search Flight	50	7	6	12	1.12	0.00%	51.8/sec	135.08	14.15	2672.4
	Book Ticket	50	12	8	55	9.27	98.00%	51.8/sec	7.96	32.59	157.3
	Get Ticket ...	50	4	3	14	2.15	0.00%	54.5/sec	28.20	8.84	529.6
	Get Ticket ...	50	31	26	49	4.17	0.00%	53.4/sec	956.02	9.59	18345.7
	Cancel ticket	50	9	7	17	1.51	0.00%	54.7/sec	3.42	13.89	64.0
	TOTAL	300	12	3	55	10.09	32.67%	286.8/sec	1024.84	90.98	3659.1

100 Threads

Test Plan FlightBooking Microservice Add Inventory HTTP Header Manager Search Flight HTTP Header Manager Book Ticket Get Ticket Details by PNR Get Ticket history by email Cancel ticket Summary Report View Results Tree	Summary Report										
	Name: Summary Report										
	Comments:										
	Write results to file / Read from file										
	Filename							Log/Display Only: <input type="checkbox"/> Errors <input type="checkbox"/> Successes <input type="button" value="Configure"/>			
	Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received K...	Sent KB/sec	Avg. Bytes
	Add Invent...	100	7	5	23	2.33	99.00%	100.4/sec	17.86	40.69	182.1
	Search Flight	100	8	6	24	1.91	0.00%	101.1/sec	263.93	27.65	2672.9
	Book Ticket	100	12	9	46	5.11	98.00%	101.0/sec	14.68	63.53	148.8
	Get Ticket ...	100	4	3	10	0.92	0.00%	104.5/sec	54.00	16.94	529.2
	Get Ticket ...	100	47	35	59	3.88	0.00%	101.7/sec	2377.69	18.28	23933.7
	Cancel ticket	100	9	7	23	1.86	0.00%	106.0/sec	6.63	26.93	64.0
	TOTAL	600	14	3	59	14.96	32.83%	565.5/sec	2533.97	179.39	4588.4

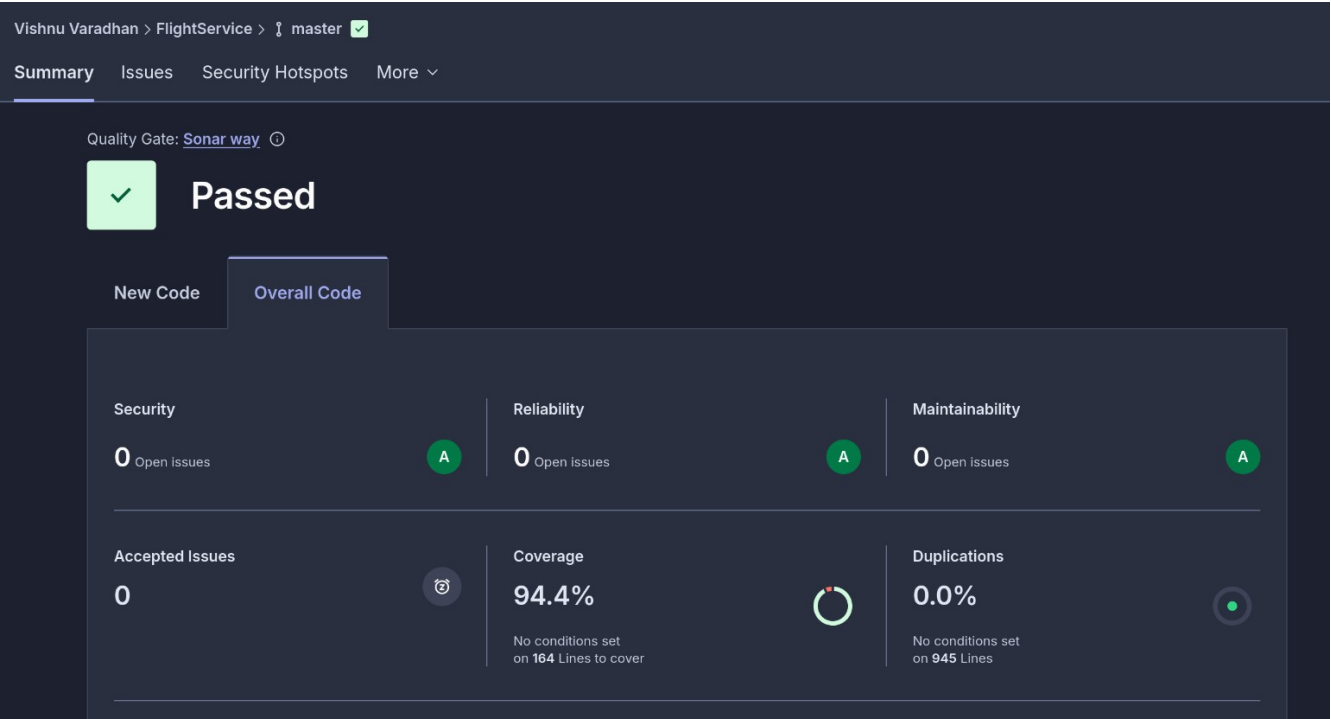
SonarQube Report

Booking Service Report:



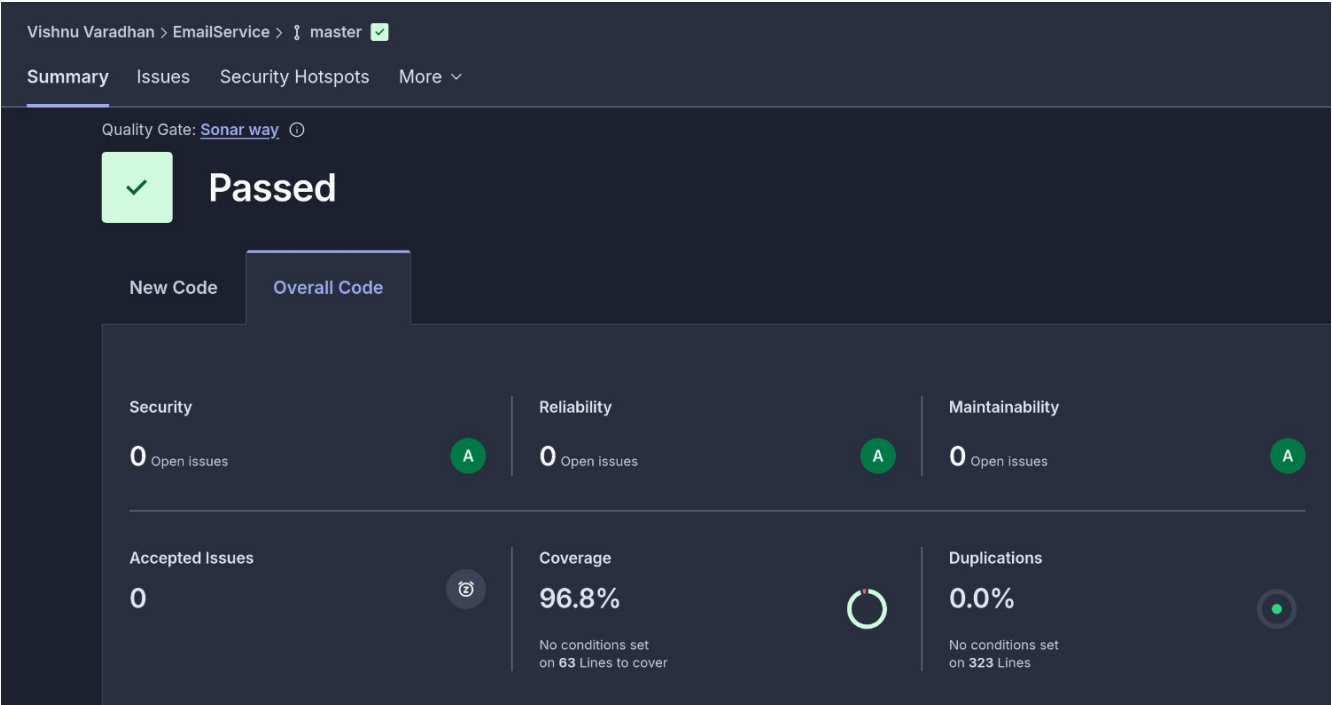
Link: https://sonarcloud.io/summary/overall?id=vi2hnu-1_bookingservice&branch=master

Flight Service Report:



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

Email Service Report:



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

Jacoco Report:

FlightService

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
org.example.flightservice.controller	<div><div></div></div>	82%		n/a	2	11	3	19	2	11	0	3
org.example.flightservice.exception	<div><div></div></div>	92%	<div><div></div></div>	50%	1	15	2	29	0	14	0	6
org.example.flightservice	<div><div></div></div>	37%		n/a	1	2	2	3	1	2	0	1
org.example.flightservice.service.implementation	<div><div></div></div>	99%	<div><div></div></div>	87%	3	29	0	89	0	17	0	3
org.example.flightservice.dto	<div><div></div></div>	100%	<div><div></div></div>	100%	0	8	0	15	0	5	0	4
org.example.flightservice.model.enums	<div><div></div></div>	100%		n/a	0	2	0	4	0	2	0	2
org.example.flightservice.model.entity	<div><div></div></div>	100%		n/a	0	2	0	5	0	2	0	1
Total	26 of 726	96%	4 of 32	87%	7	69	7	164	3	53	0	20

BookingService

BookingService

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
org.example.bookingservice.exception	<div><div></div></div>	55%	<div><div></div></div>	0%	3	13	12	26	2	12	0	5
org.example.bookingservice.service.implmentation	<div><div></div></div>	98%	<div><div></div></div>	95%	1	24	1	98	0	13	0	2
org.example.bookingservice	<div><div></div></div>	37%		n/a	1	2	2	3	1	2	0	1
org.example.bookingservice.dto	<div><div></div></div>	100%		n/a	0	6	0	11	0	6	0	5
org.example.bookingservice.controller	<div><div></div></div>	100%		n/a	0	7	0	15	0	7	0	2
org.example.bookingservice.model.enums	<div><div></div></div>	100%		n/a	0	3	0	6	0	3	0	3
Total	55 of 722	92%	3 of 24	87%	5	55	15	159	3	43	0	18

EmailService

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
org.example.emailservice	<div><div></div></div>	37%		n/a	1	2	2	3	1	2	0	1
org.example.emailservice.service.implementation	<div><div></div></div>	100%		n/a	0	5	0	44	0	5	0	1
org.example.emailservice.dto	<div><div></div></div>	100%		n/a	0	3	0	3	0	3	0	3
org.example.emailservice.model.enums	<div><div></div></div>	100%		n/a	0	2	0	4	0	2	0	2
org.example.emailservice.kafka	<div><div></div></div>	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

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

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

HTTP Chubb / Flight Service / Add flight schedule

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

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

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

```
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 }
```

Body Cookies Headers (3) Test Results

201 Created

{ } JSON ☐

Preview Visualize ☐

```
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

JSC

```
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,  
25 }
```

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

 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 Ctrl+Alt+P to Ask AI

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"
```

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 C++L.A3+uD +o Ack AT

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": "NONE"
```

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

 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 |

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/flightsearch/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