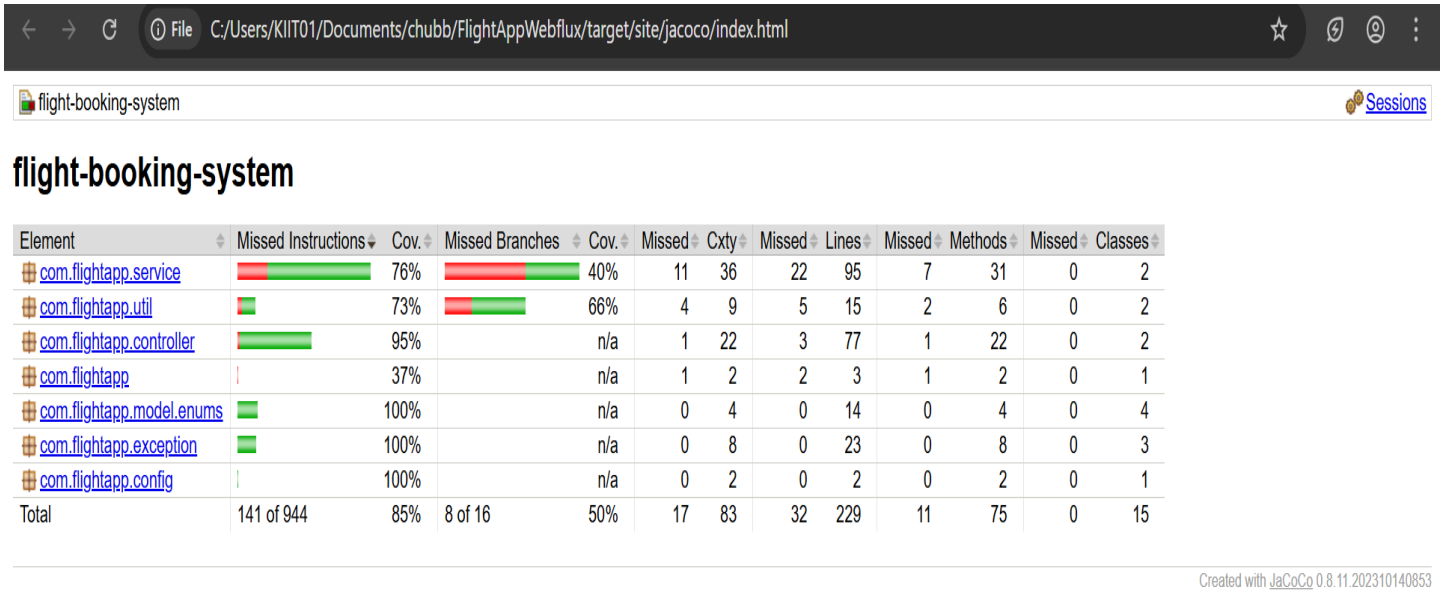
Flight Management System using webflux and mongodb:

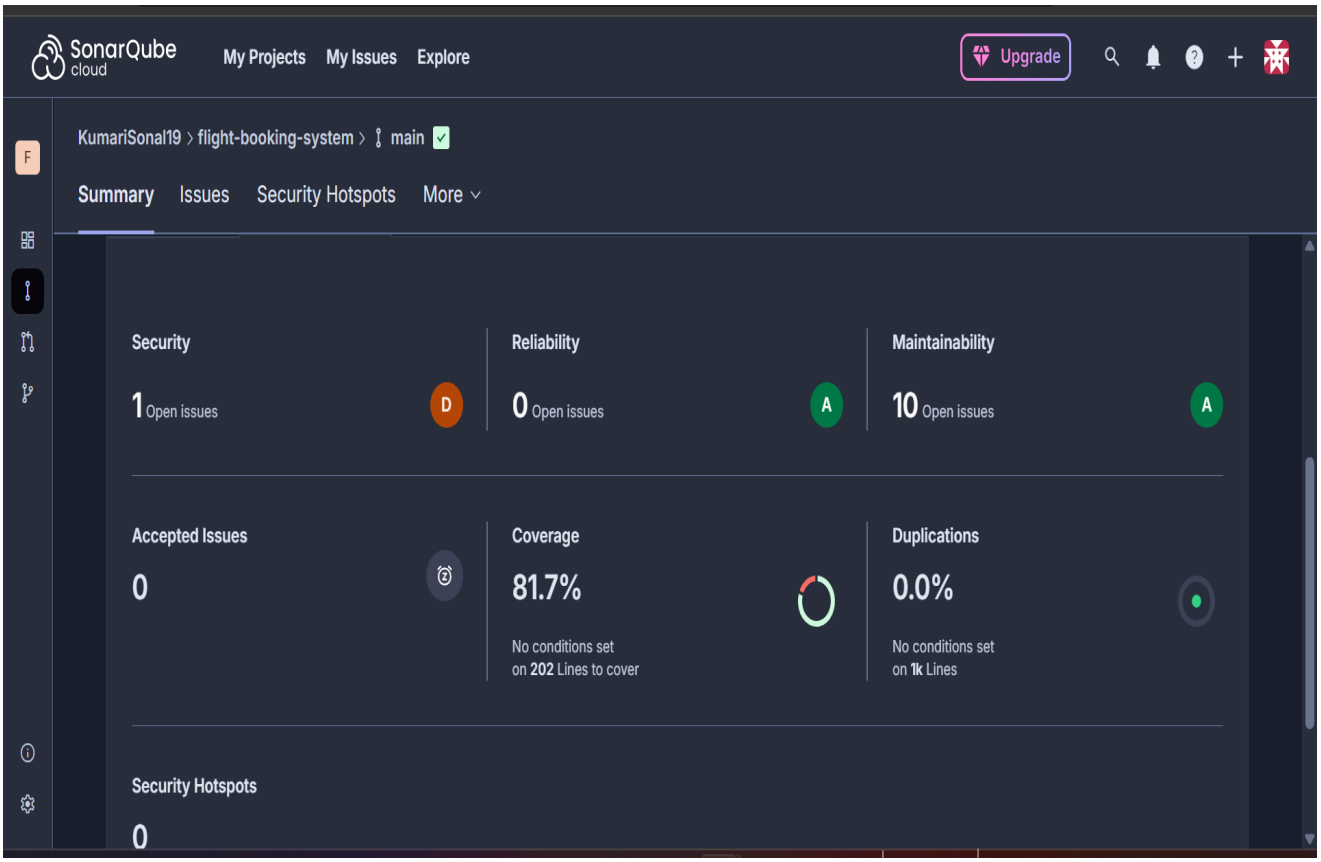
Jacoco Report:

Code Coverage: 85%

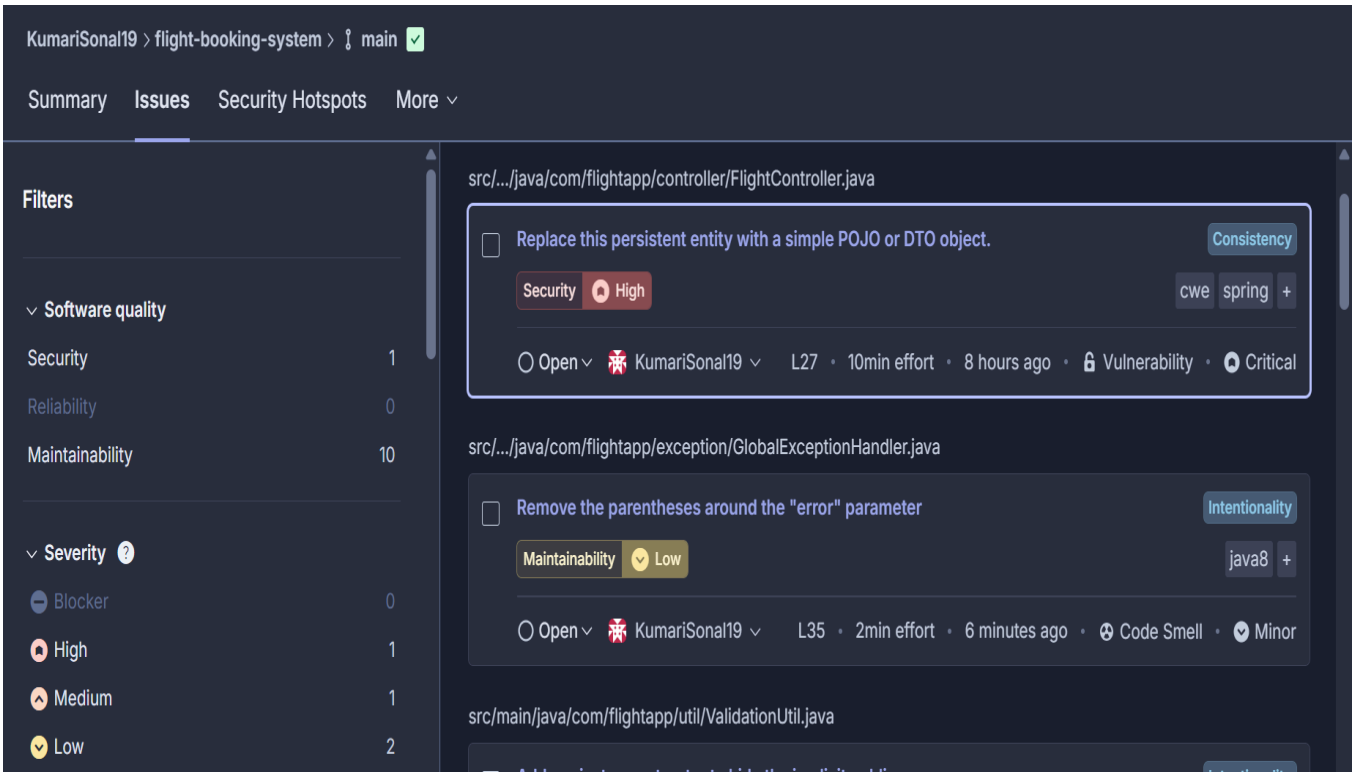


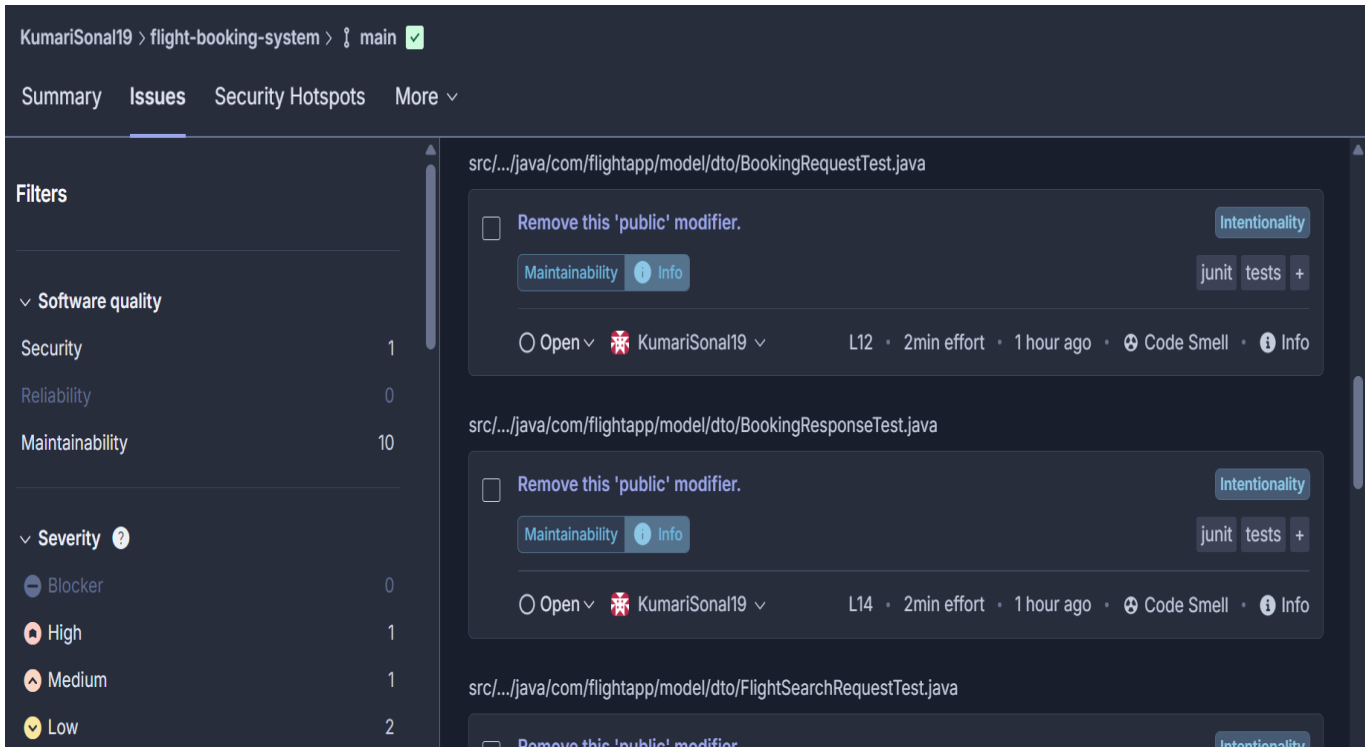
SONARQUBE REPORT (Before):

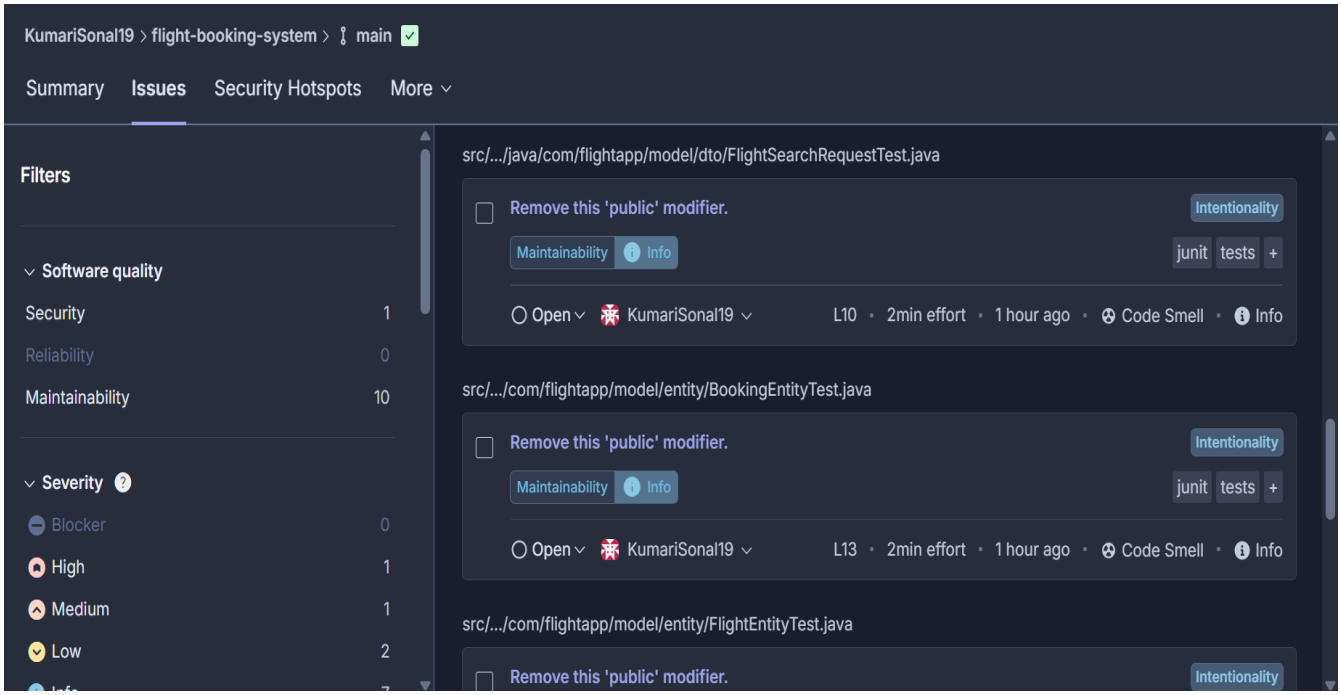
Code Coverage: 81.7
Total Issues: 11

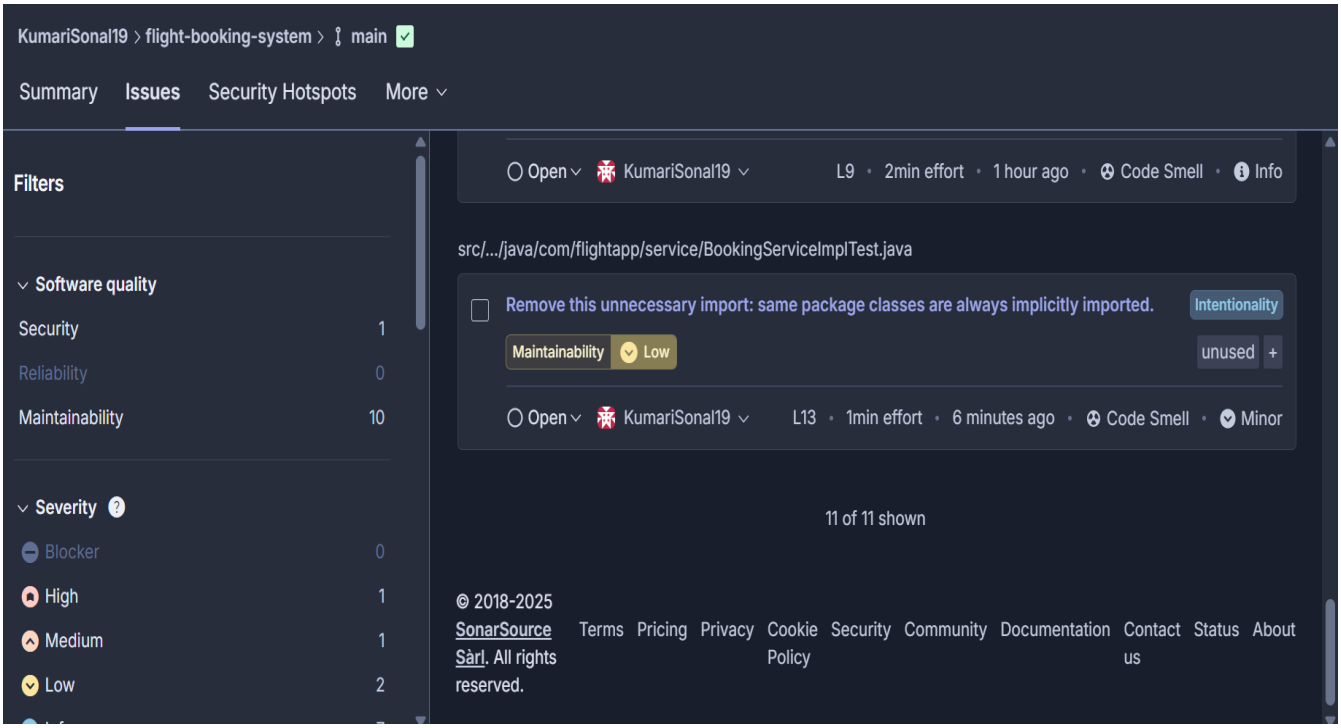


ISSUES:


KumariSonal19 › flight-booking-system › main
Summary
Issues
Security Hotspots
More
Filters
Software quality
Security 1
Reliability 0
Maintainability 10
Severity
Blocker 0
High 1
Medium 1
Low 2
src/.../java/com/flightapp/controller/FlightController.java
Replace this persistent entity with a simple POJO or DTO object.
Consistency
Security High
cwe spring +
Open KumariSonal19 L27 • 10min effort • 8 hours ago • Vulnerability • Critical
src/.../java/com/flightapp/exception/GlobalExceptionHandler.java
Remove the parentheses around the "error" parameter
Intentionality
Maintainability Low
java8 +
Open KumariSonal19 L35 • 2min effort • 6 minutes ago • Code Smell • Minor
src/main/java/com/flightapp/util/ValidationUtil.java


KumariSonal19 > flight-booking-system > main
Summary
Issues
Security Hotspots
More
Filters
Software quality
Security 1
Reliability 0
Maintainability 10
Severity
Blocker 0
High 1
Medium 1
Low 2
src/.../java/com/flightapp/model/dto/BookingRequestTest.java
Remove this 'public' modifier.
Intentionality
Maintainability
Info
junit
tests
+
Open
KumariSonal19
L12 • 2min effort • 1 hour ago • Code Smell • Info
src/.../java/com/flightapp/model/dto/BookingResponseTest.java
Remove this 'public' modifier.
Intentionality
Maintainability
Info
junit
tests
+
Open
KumariSonal19
L14 • 2min effort • 1 hour ago • Code Smell • Info
src/.../java/com/flightapp/model/dto/FlightSearchRequestTest.java


KumariSonal19 > flight-booking-system > main
Summary
Issues
Security Hotspots
More
Filters
Software quality
Security 1
Reliability 0
Maintainability 10
Severity
Blocker 0
High 1
Medium 1
Low 2
src/.../java/com/flightapp/model/dto/FlightSearchRequestTest.java
Remove this 'public' modifier.
Intentionality
Maintainability
Info
junit
tests
+
Open
KumariSonal19
L10 • 2min effort • 1 hour ago • Code Smell • Info
src/.../com/flightapp/model/entity/BookingEntityTest.java
Remove this 'public' modifier.
Intentionality
Maintainability
Info
junit
tests
+
Open
KumariSonal19
L13 • 2min effort • 1 hour ago • Code Smell • Info
src/.../com/flightapp/model/entity/FlightEntityTest.java


KumariSonal19 > flight-booking-system > main
Summary
Issues
Security Hotspots
More
Filters
Software quality
Security 1
Reliability 0
Maintainability 10
Severity
Blocker 0
High 1
Medium 1
Low 2
Open
KumariSonal19
L9 • 2min effort • 1 hour ago • Code Smell • Info
src/.../java/com/flightapp/service/BookingServiceImplTest.java
Remove this unnecessary import: same package classes are always implicitly imported.
Intentionality
Maintainability
Low
unused +
Open
KumariSonal19
L13 • 1min effort • 6 minutes ago • Code Smell • Minor
11 of 11 shown
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Security
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Documentation
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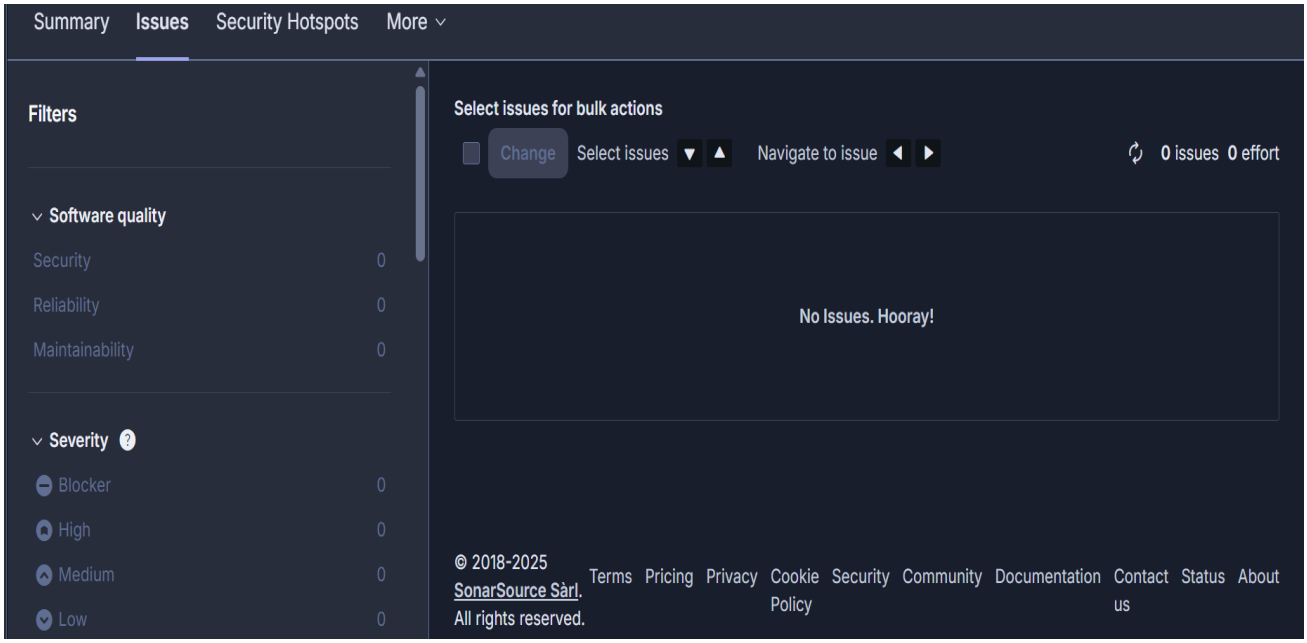
Status
About

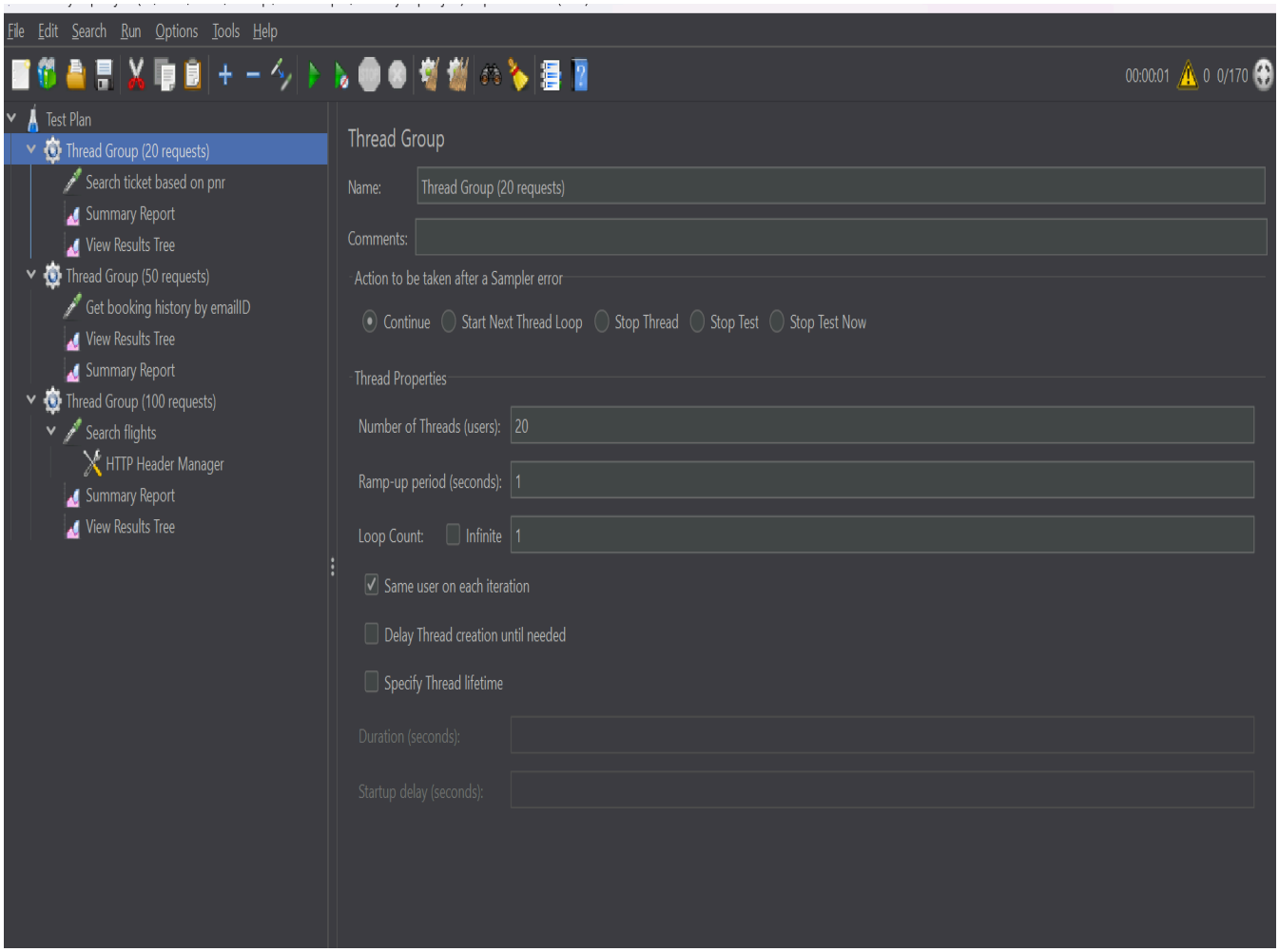
SONARQUBE REPORT (After):

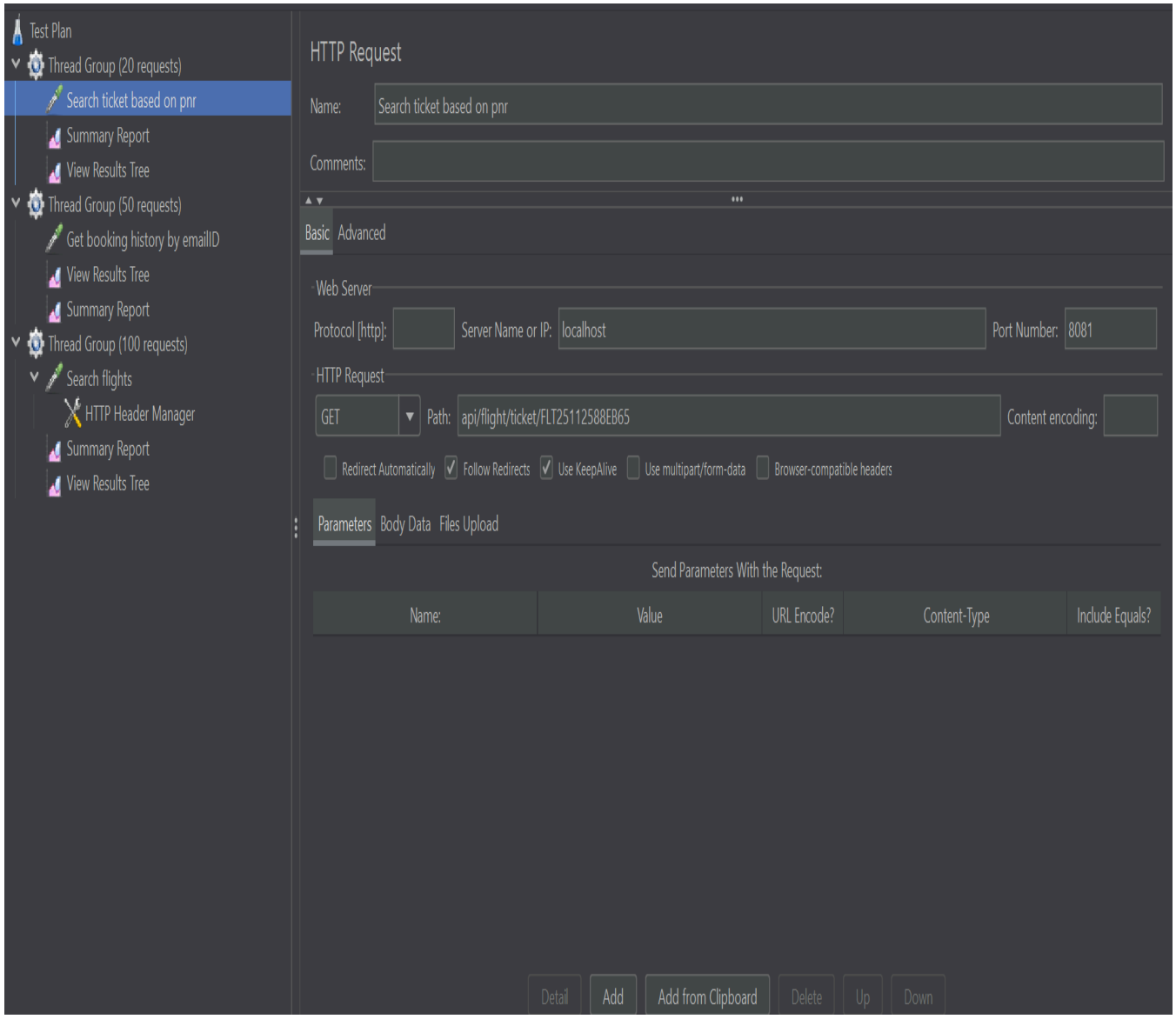
All issues resolved

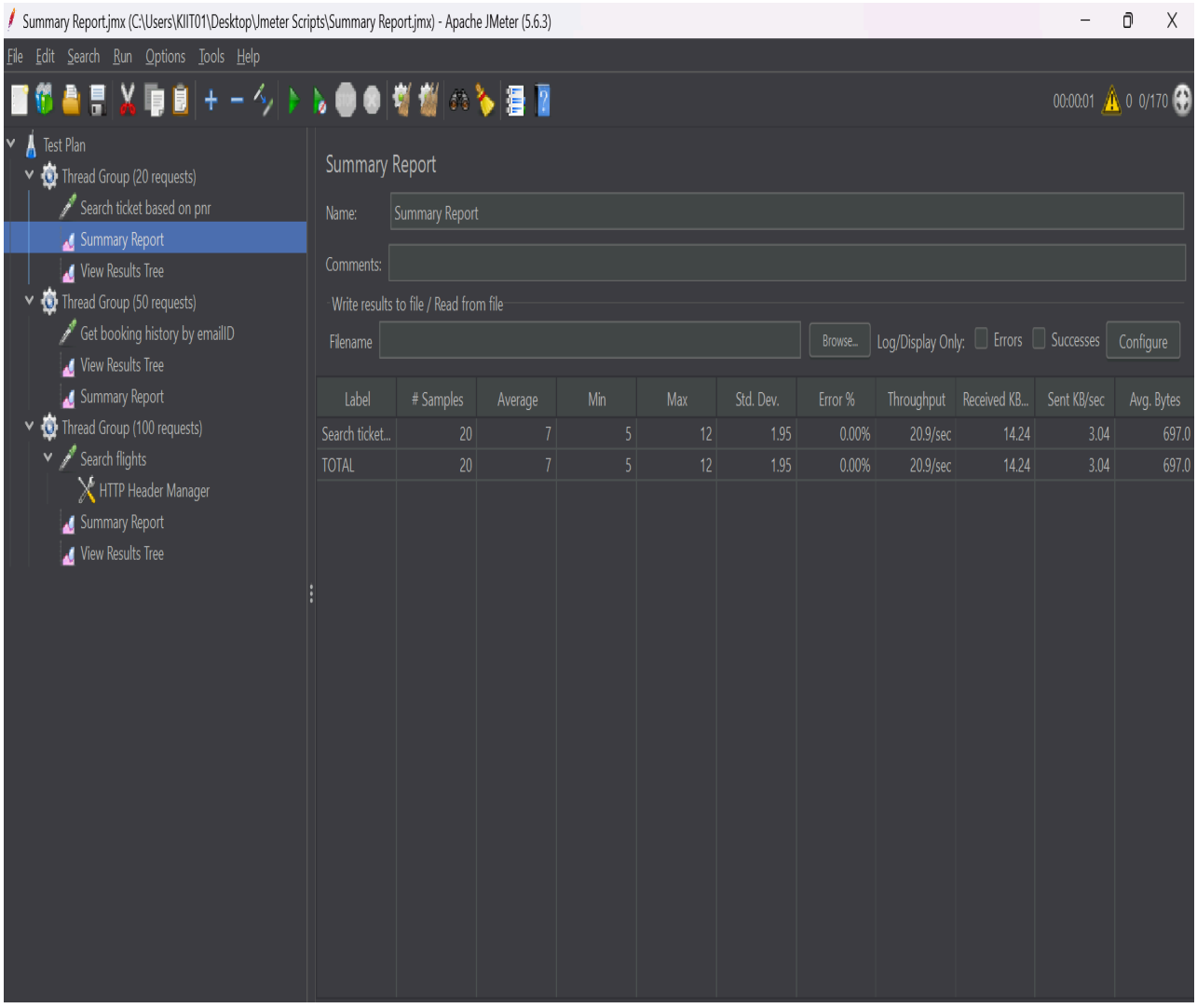


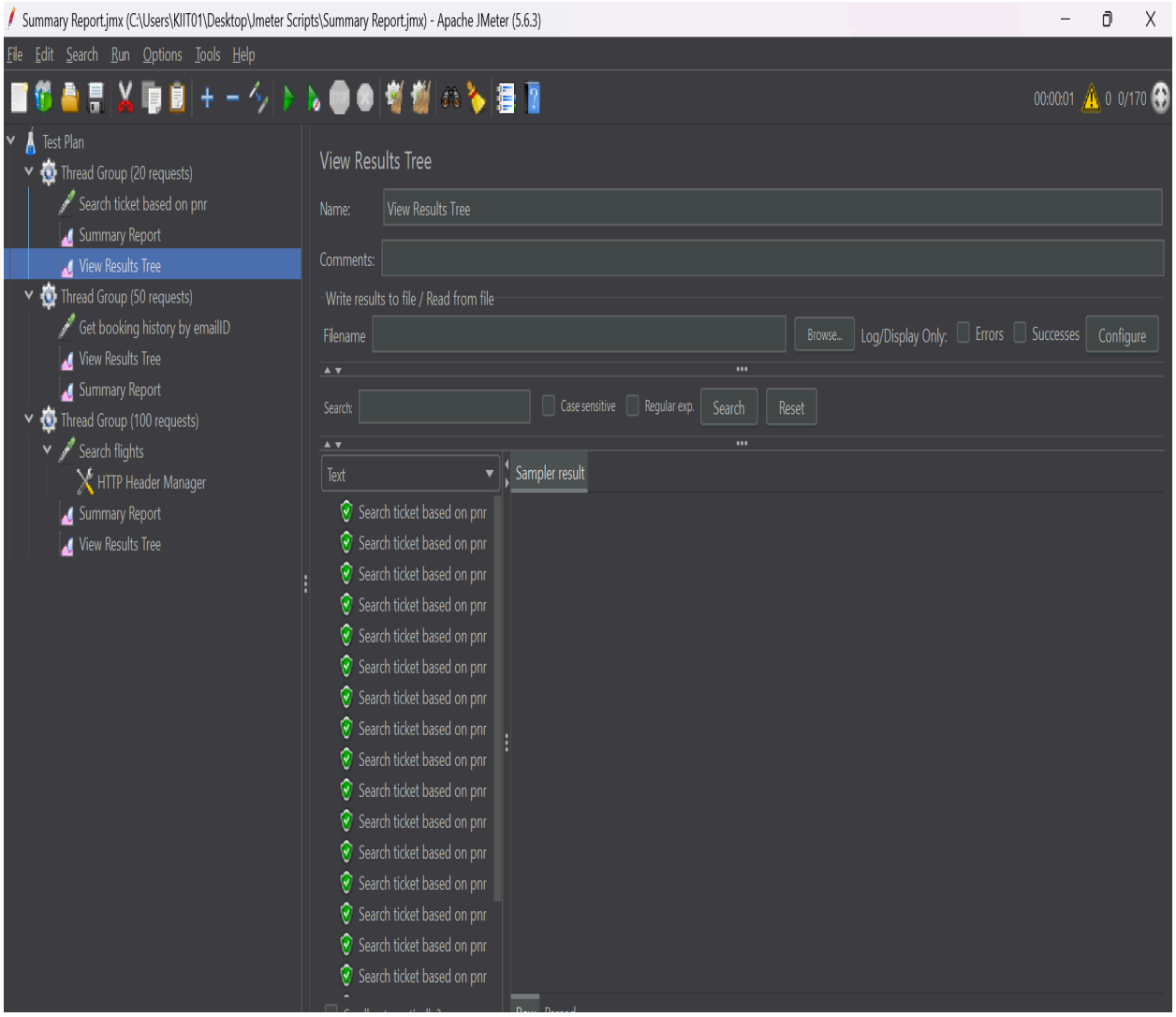
JMETER TESTING

Case 1: 20 requests




Test Plan
Thread Group (20 requests)
Search ticket based on pnr
Summary Report
View Results Tree
Thread Group (50 requests)
Get booking history by emailID
View Results Tree
Summary Report
Thread Group (100 requests)
Search flights
HTTP Header Manager
Summary Report
View Results Tree
HTTP Request
Name:
Search ticket based on pnr
Comments:
Basic
Advanced
Web Server
Protocol [http]:
Server Name or IP:
localhost
Port Number:
8081
HTTP Request
GET
Path:
api/flight/ticket/FLT25112588EB65
Content encoding:
Redirect Automatically
Follow Redirects
Use KeepAlive
Use multipart/form-data
Browser-compatible headers
Parameters
Body Data
Files Upload
Send Parameters With the Request:
Name:
Value
URL Encode?
Content-Type
Include Equals?
Detail
Add
Add from Clipboard
Delete
Up
Down


Summary Report.jmx (C:\Users\KIIT01\Desktop\Jmeter Scripts\Summary Report.jmx) - Apache JMeter (5.6.3)
File Edit Search Run Options Tools Help
00:00:01 0 0/170
Test Plan
Thread Group (20 requests)
Search ticket based on pnr
Summary Report
View Results Tree
Thread Group (50 requests)
Get booking history by emailID
View Results Tree
Summary Report
Thread Group (100 requests)
Search flights
HTTP Header Manager
Summary Report
View Results Tree
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
Search ticket... 20 7 5 12 1.95 0.00% 20.9/sec 14.24 3.04 697.0
TOTAL 20 7 5 12 1.95 0.00% 20.9/sec 14.24 3.04 697.0


Summary Report.jmx (C:\Users\KIIT01\Desktop\Jmeter Scripts\Summary Report.jmx) - Apache JMeter (5.6.3)
File Edit Search Run Options Tools Help
00:00:01 0 0/170
Test Plan
Thread Group (20 requests)
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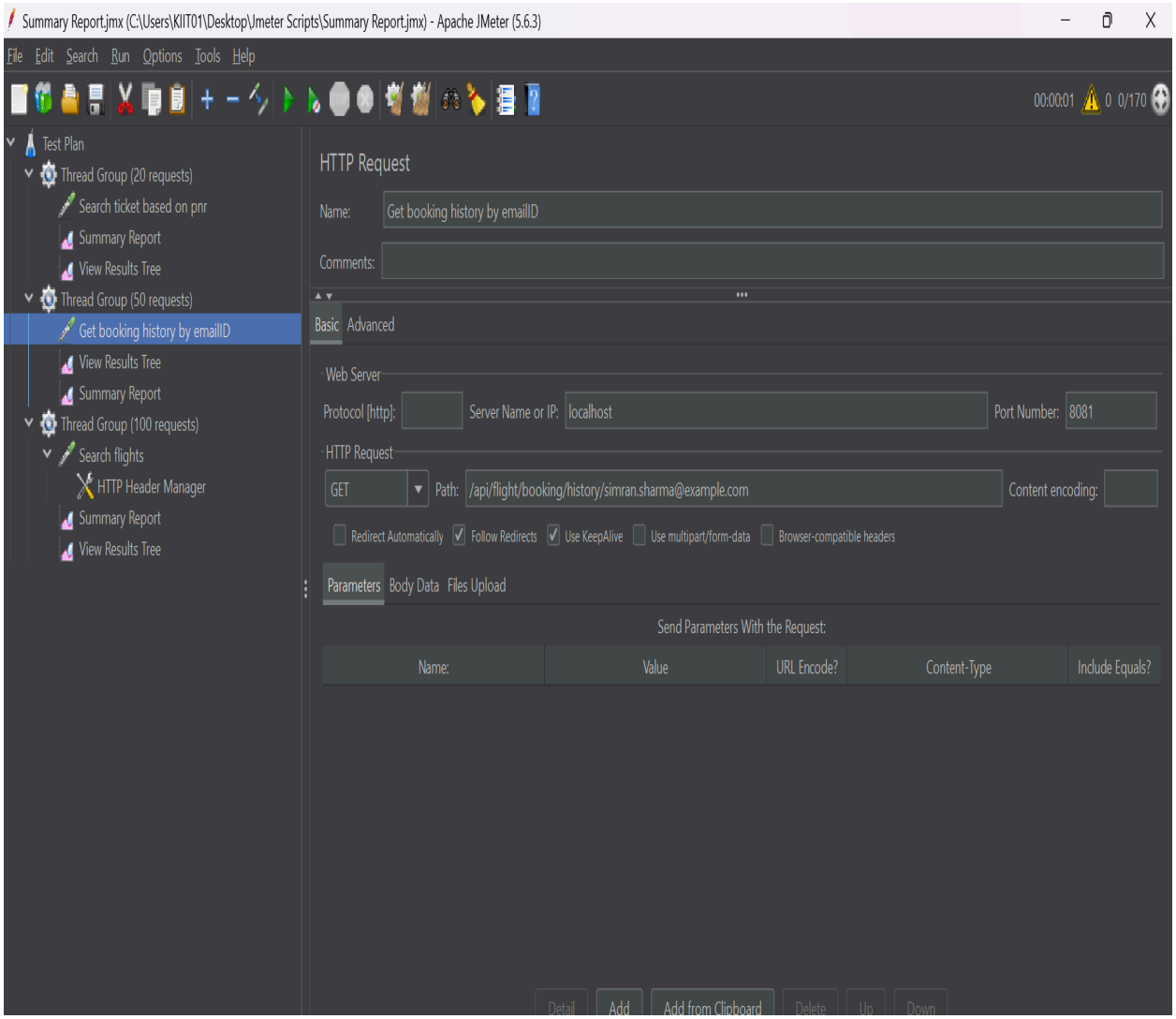
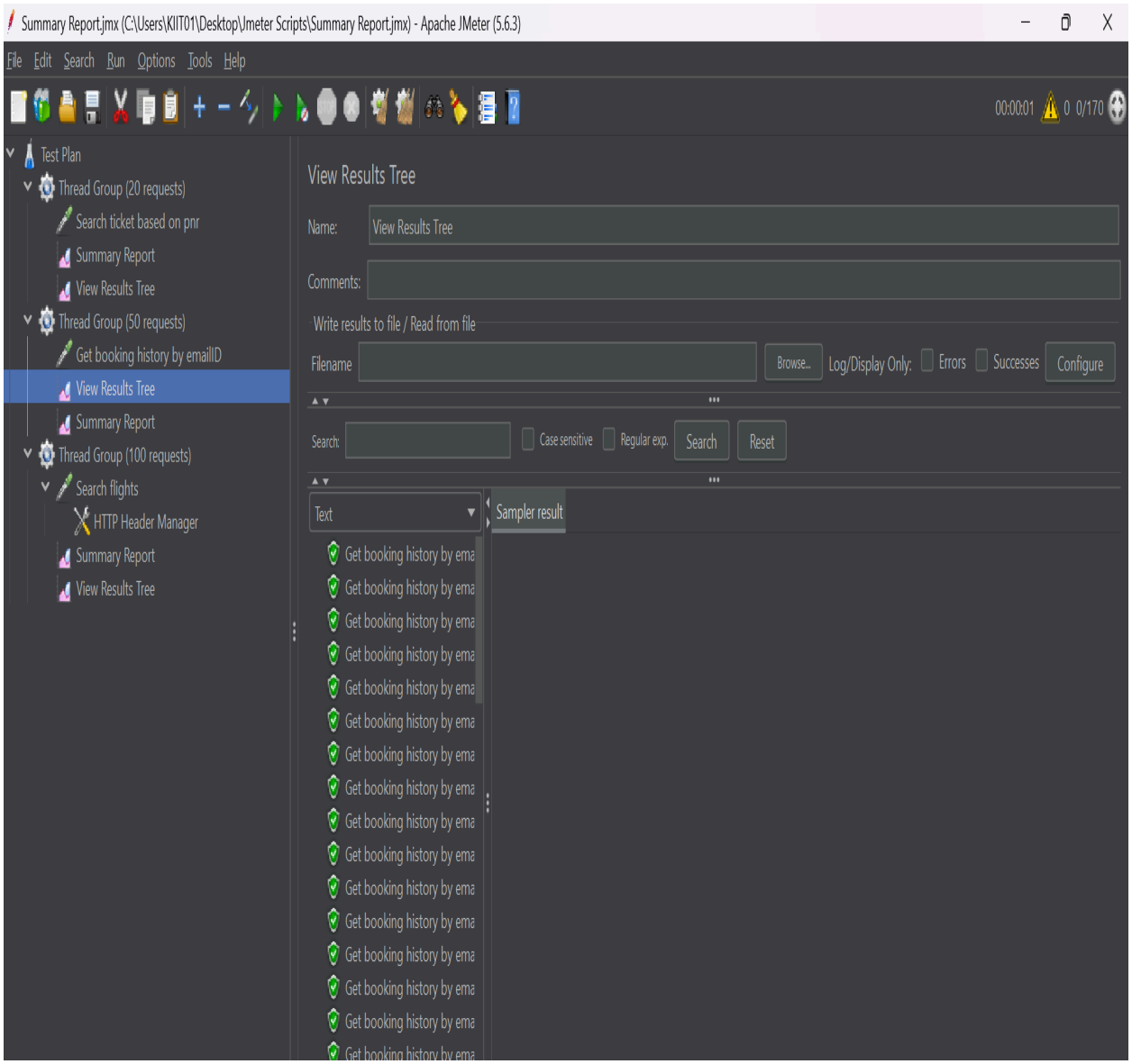
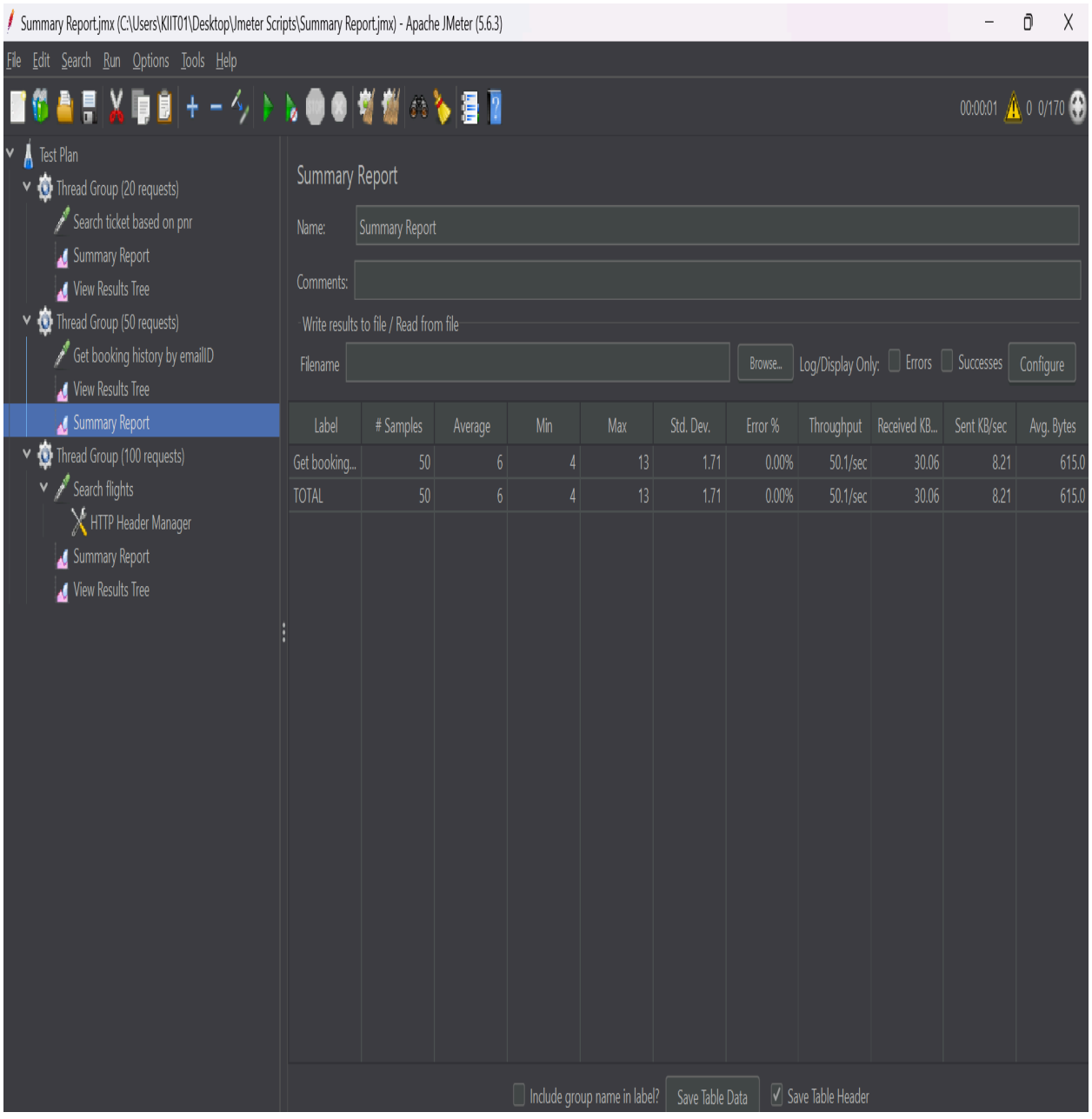
Summary Report
View Results Tree
Thread Group (50 requests)
Get booking history by emailID
View Results Tree
Summary Report
Thread Group (100 requests)
Search flights
HTTP Header Manager
Summary Report
View Results Tree
View Results Tree
Name: View Results Tree
Comments:
Write results to file / Read from file
Filename
Browse...
Log/Display Only:
Errors
Successes
Configure
Search:
Case sensitive
Regular exp.
Search
Reset
Text
Sampler result
Search ticket based on pnr

Case 2: 50 requests




Summary Report.jmx (C:\Users\KIIT01\Desktop\Jmeter Scripts\Summary Report.jmx) - Apache JMeter (5.6.3)
File Edit Search Run Options Tools Help
00:00:01 0 0/170
Test Plan
Thread Group (20 requests)
Search ticket based on pnr
Summary Report
View Results Tree
Thread Group (50 requests)
Get booking history by emailID
View Results Tree
Summary Report
Thread Group (100 requests)
Search flights
HTTP Header Manager
Summary Report
View Results Tree
View Results Tree
Name: View Results Tree
Comments:
Write results to file / Read from file
Filename Browse... Log/Display Only: Errors Successes Configure
Search: Case sensitive Regular exp. Search Reset
Text
Sampler result
Get booking history by ema


Summary Report.jmx (C:\Users\KIIT01\Desktop\Jmeter Scripts\Summary Report.jmx) - Apache JMeter (5.6.3)
File Edit Search Run Options Tools Help
00:00:01 0 0/170
Test Plan
Thread Group (20 requests)
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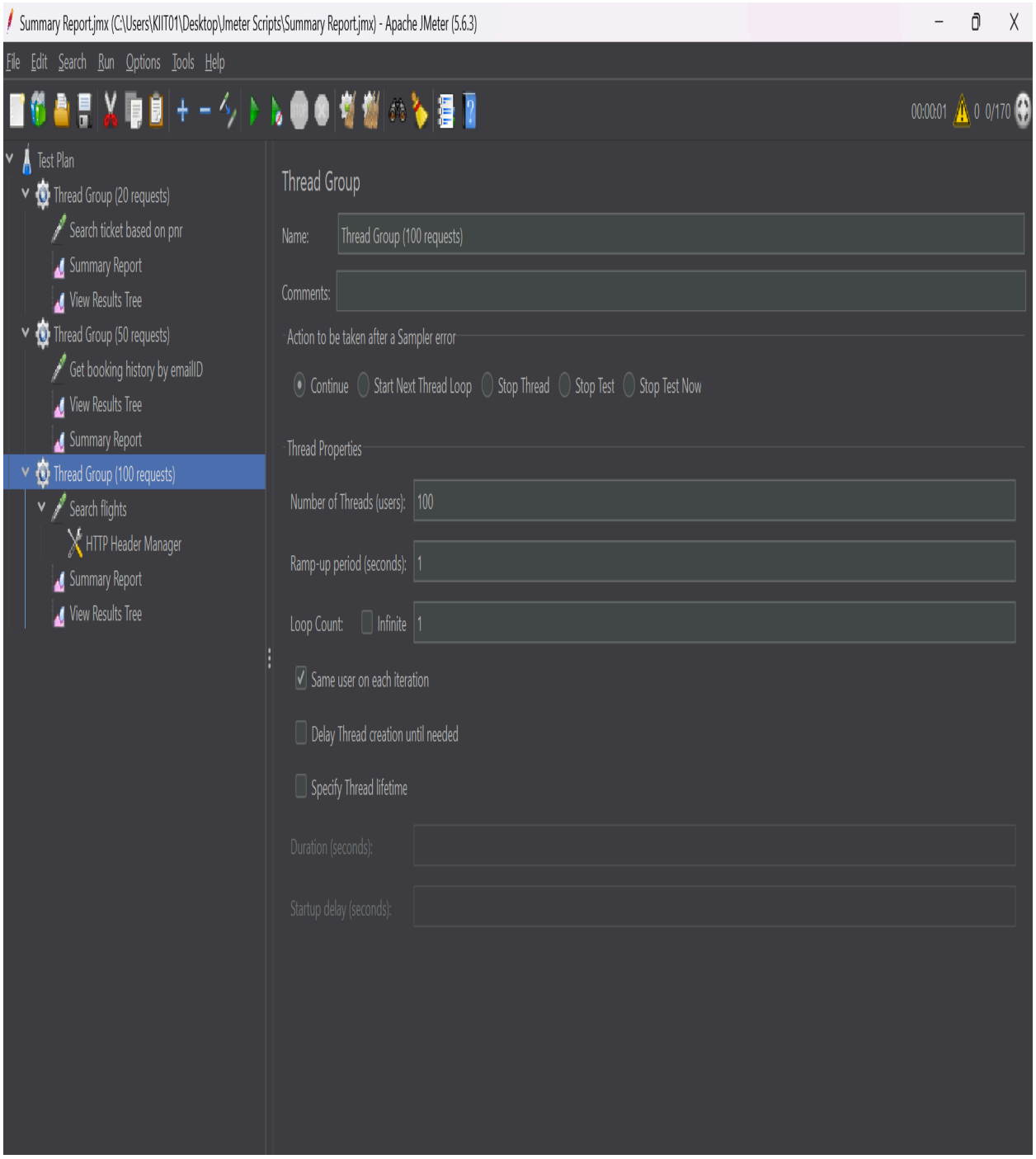
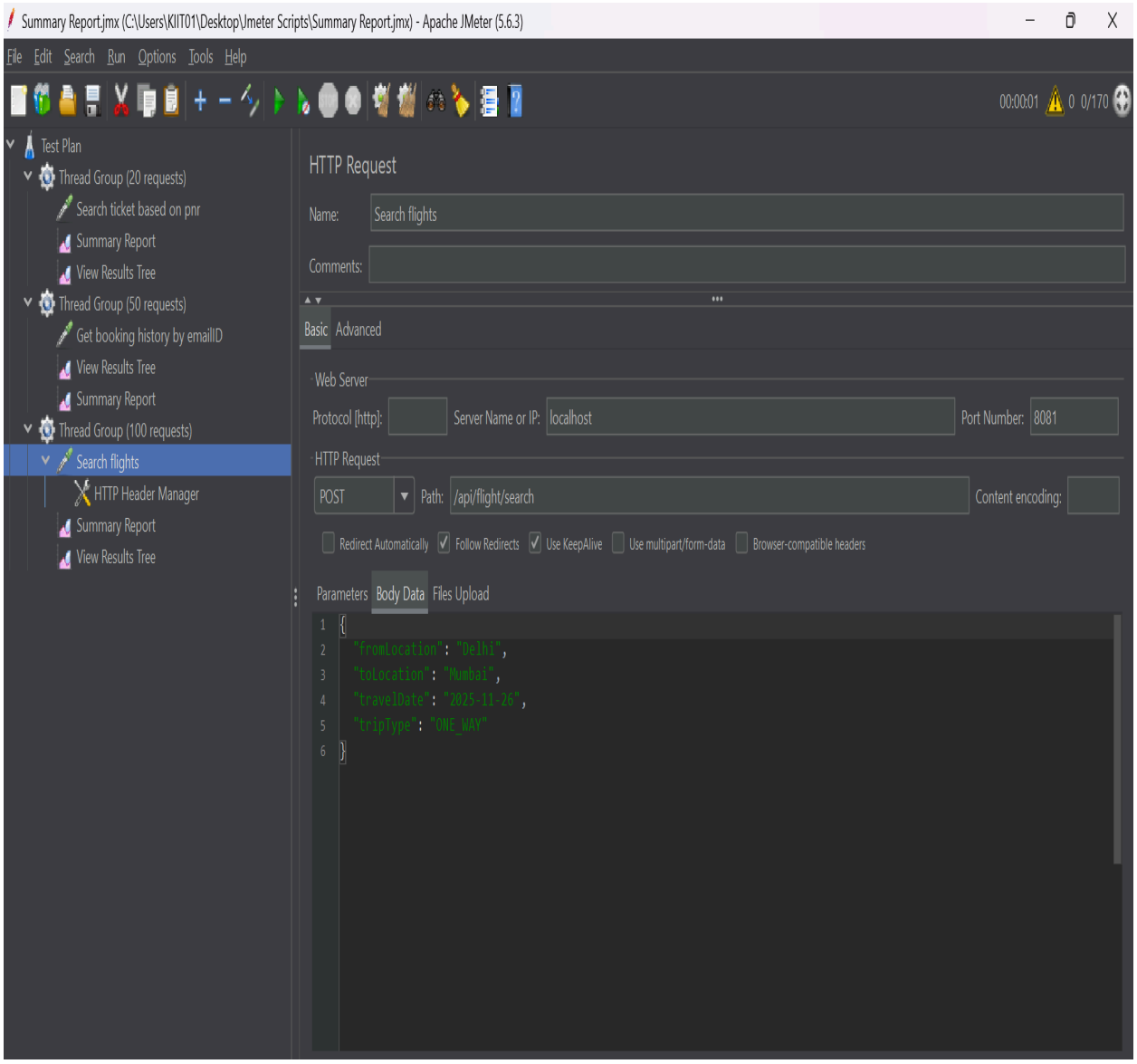
View Results Tree
Thread Group (50 requests)
Get booking history by emailID
View Results Tree
Summary Report
Thread Group (100 requests)
Search flights
HTTP Header Manager
Summary Report
View Results Tree
Summary Report
Name: Summary Report
Comments:
Write results to file / Read from file
Filename
Browse...
Log/Display Only: Errors Successes
Configure
Label # Samples Average Min Max Std. Dev. Error % Throughput Received KB... Sent KB/sec Avg. Bytes
Get booking... 50 6 4 13 1.71 0.00% 50.1/sec 30.06 8.21 615.0
TOTAL 50 6 4 13 1.71 0.00% 50.1/sec 30.06 8.21 615.0
Include group name in label?
Save Table Data
Save Table Header

Case 3: 100 requests

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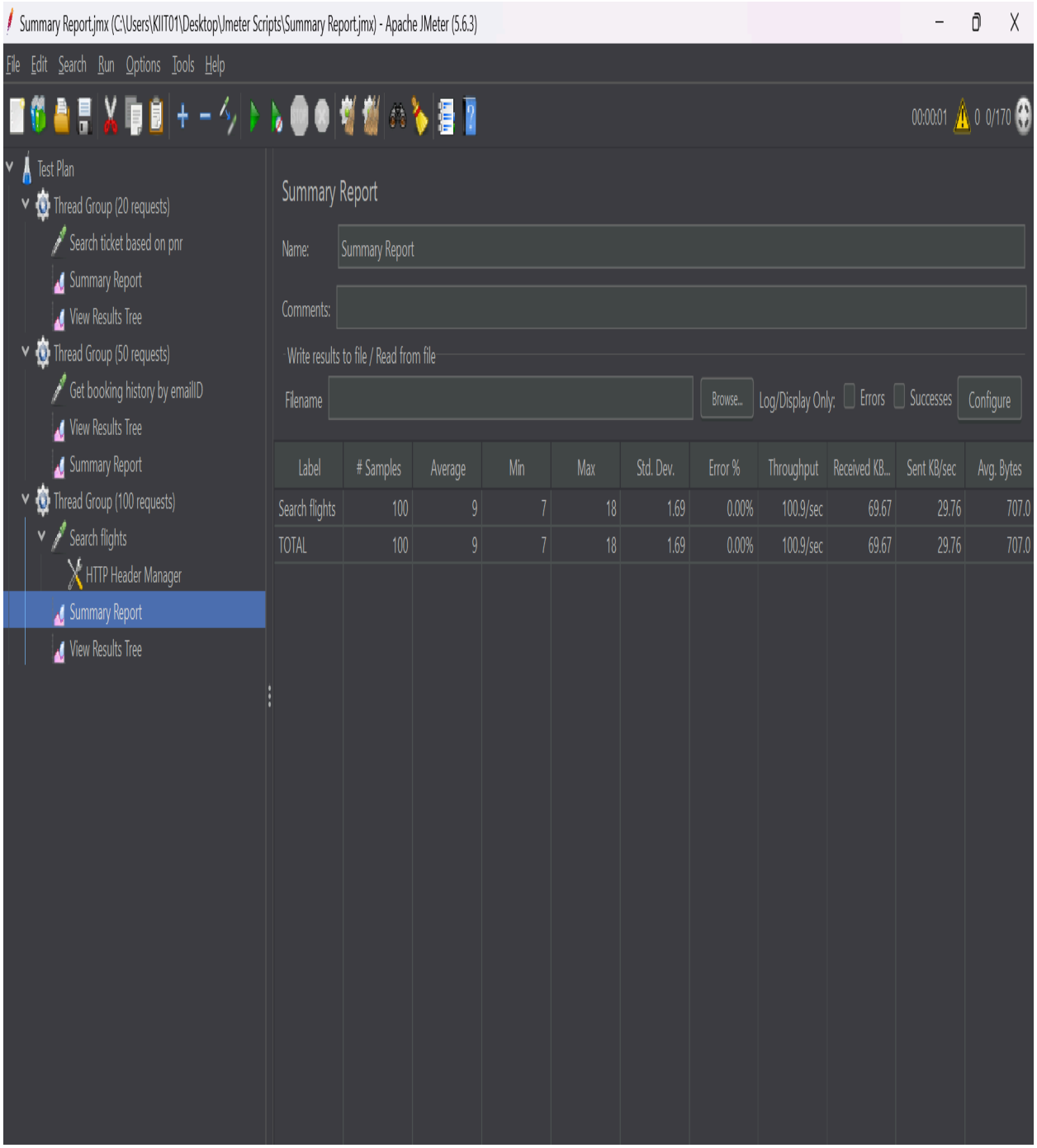
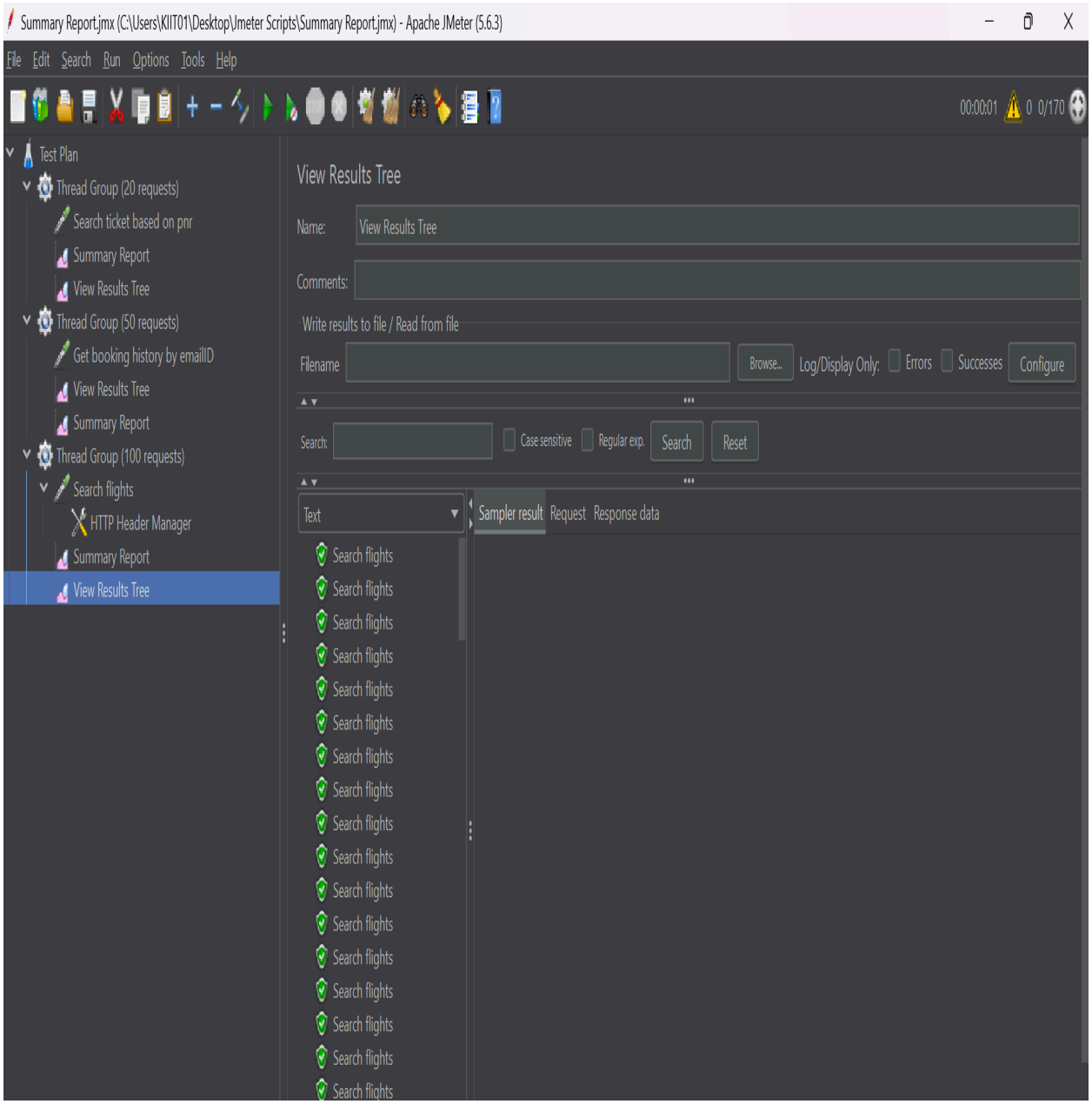
File Edit Search Run Options Tools Help
00:00:01 0 0/170
Test Plan
Thread Group (20 requests)
Search ticket based on pnr
Summary Report
View Results Tree
Thread Group (50 requests)
Get booking history by emailID
View Results Tree
Summary Report
Thread Group (100 requests)
Search flights
HTTP Header Manager
Summary Report
View Results Tree
HTTP Request
Name: Search flights
Comments:
Basic Advanced
Web Server
Protocol [http]:
Server Name or IP: localhost
Port Number: 8081
HTTP Request
POST
Path: /api/flight/search
Content encoding:
Redirect Automatically
Follow Redirects
Use KeepAlive
Use multipart/form-data
Browser-compatible headers
Parameters Body Data Files Upload
{
"fromLocation": "Delhi",
"toLocation": "Mumbai",
"travelDate": "2025-11-26",
"tripType": "ONE_WAY"
}


Summary Report.jmx (C:\Users\KIIT01\Desktop\Jmeter Scripts\Summary Report.jmx) - Apache JMeter (5.6.3)
File Edit Search Run Options Tools Help
00:00:01 0 0/170
Test Plan
Thread Group (20 requests)
Search ticket based on pnr
Summary Report
View Results Tree
Thread Group (50 requests)
Get booking history by emailID
View Results Tree
Summary Report
Thread Group (100 requests)
Search flights
HTTP Header Manager
Summary Report
View Results Tree
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
Search flights 100 9 7 18 1.69 0.00% 100.9/sec 69.67 29.76 707.0
TOTAL 100 9 7 18 1.69 0.00% 100.9/sec 69.67 29.76 707.0


Summary Report.jmx (C:\Users\KIIT01\Desktop\Jmeter Scripts\Summary Report.jmx) - Apache JMeter (5.6.3)
File Edit Search Run Options Tools Help
00:00:01 0 0/170
Test Plan
Thread Group (20 requests)
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Summary Report
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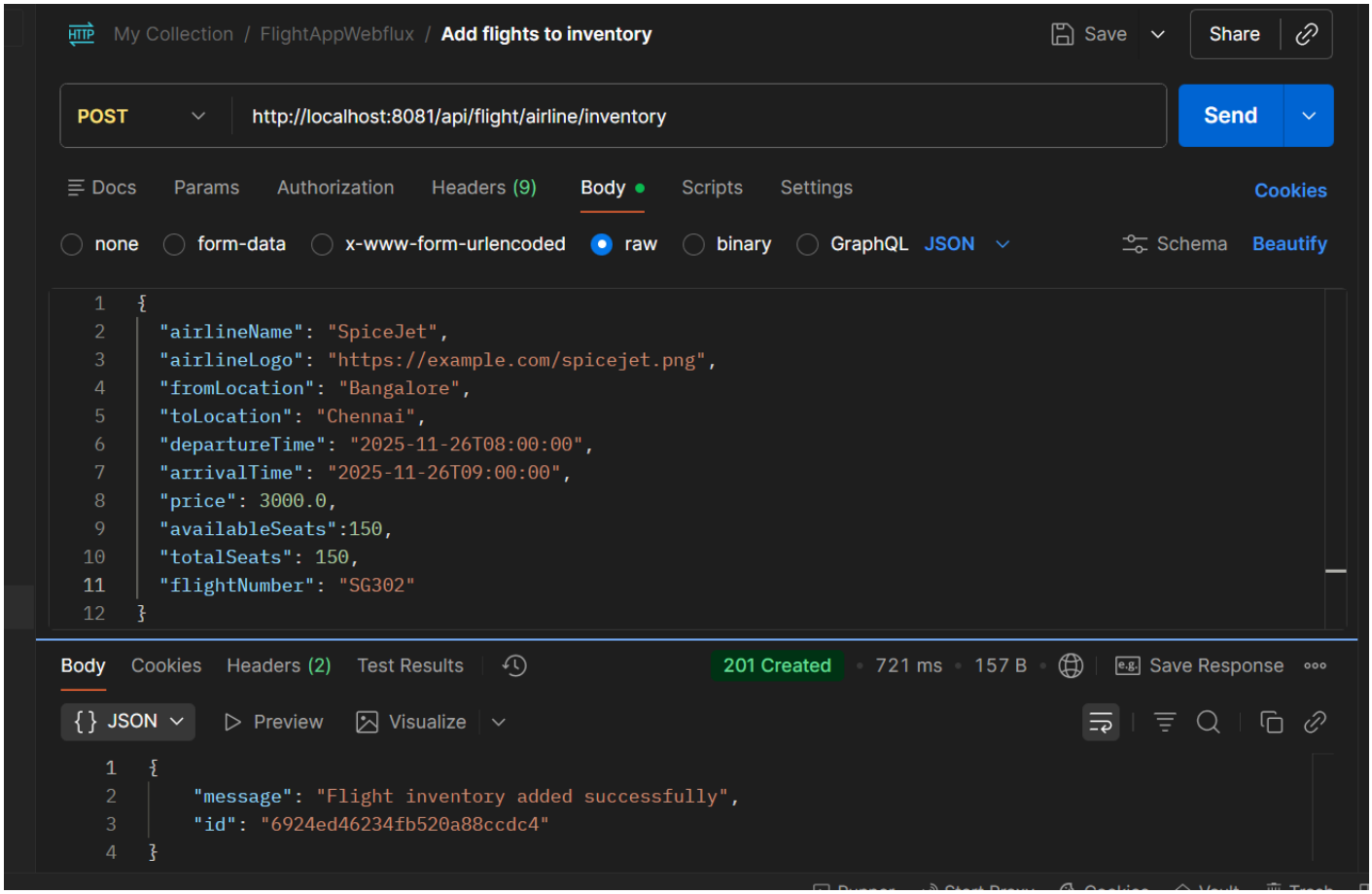
Thread Group (50 requests)
Get booking history by emailID
View Results Tree
Summary Report
Thread Group (100 requests)
Search flights
HTTP Header Manager
Summary Report
View Results Tree
View Results Tree
Name: View Results Tree
Comments:
Write results to file / Read from file
Filename
Browse...
Log/Display Only:
Errors
Successes
Configure
Search:
Case sensitive
Regular exp.
Search
Reset
Text
Sampler result
Request
Response data
Search flights

POSTMAN API ENDPOINT TESTING

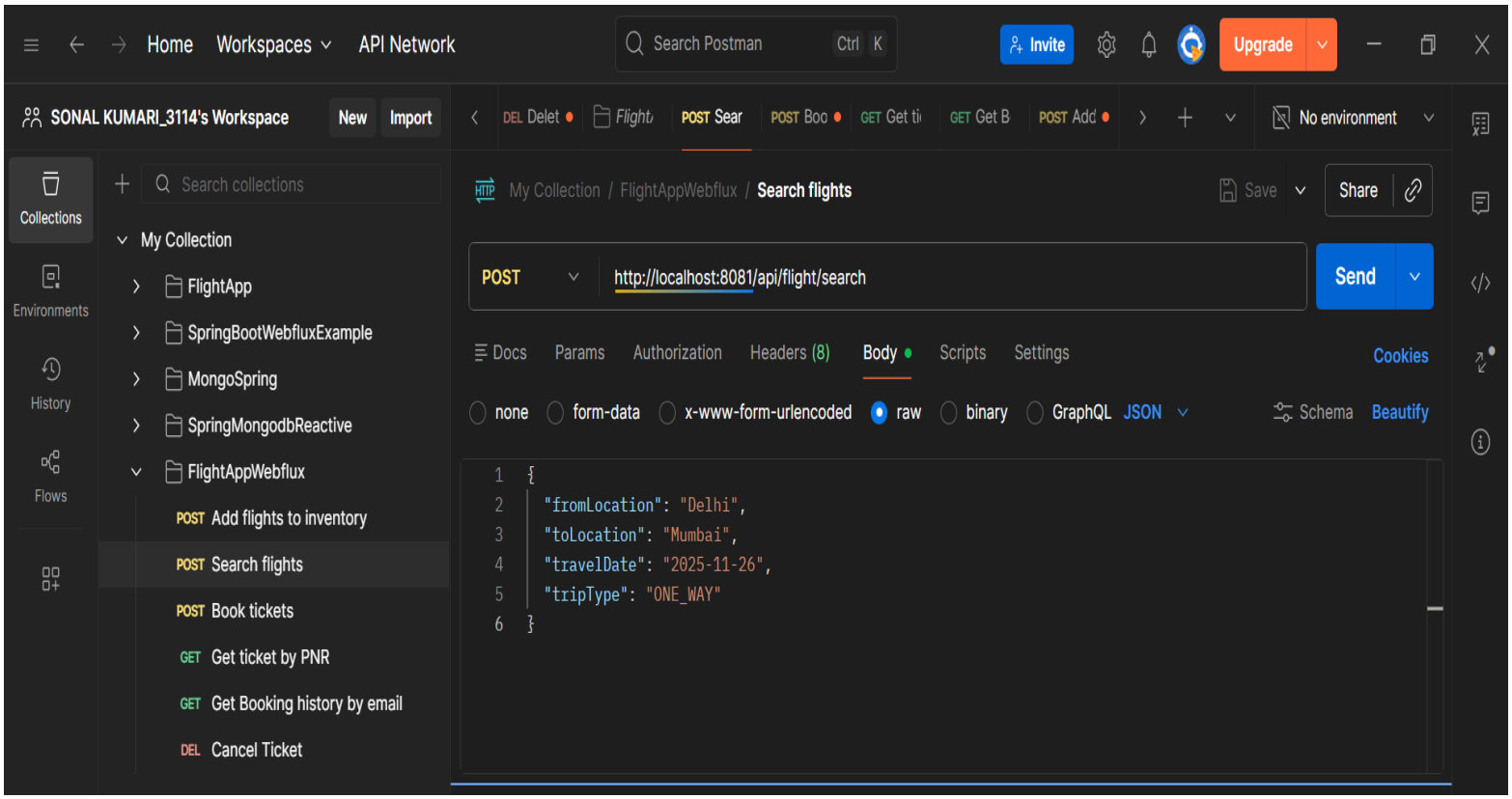
1. POST:

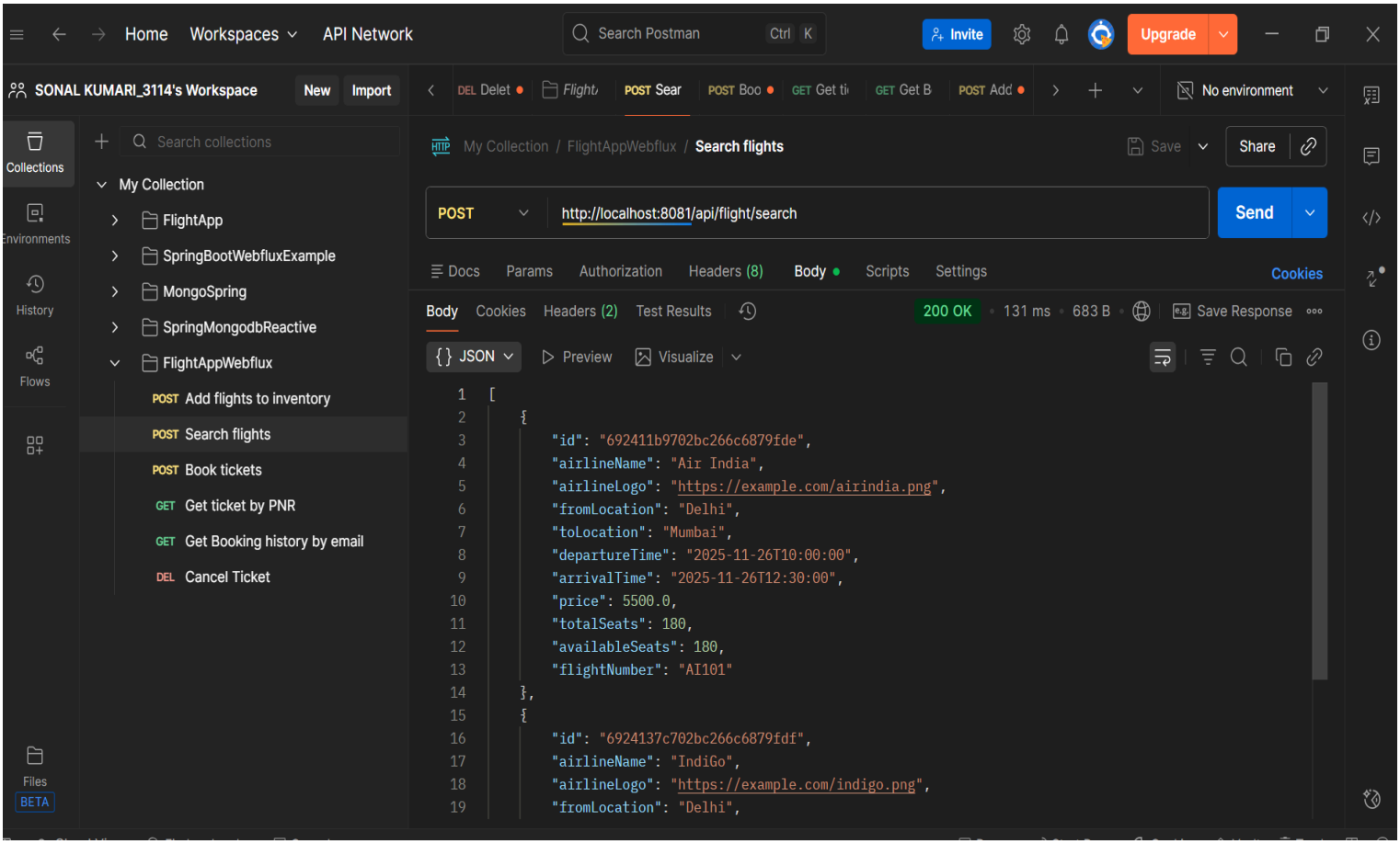
http://localhost:8081/api/flight/airline/inventory



2. POST:

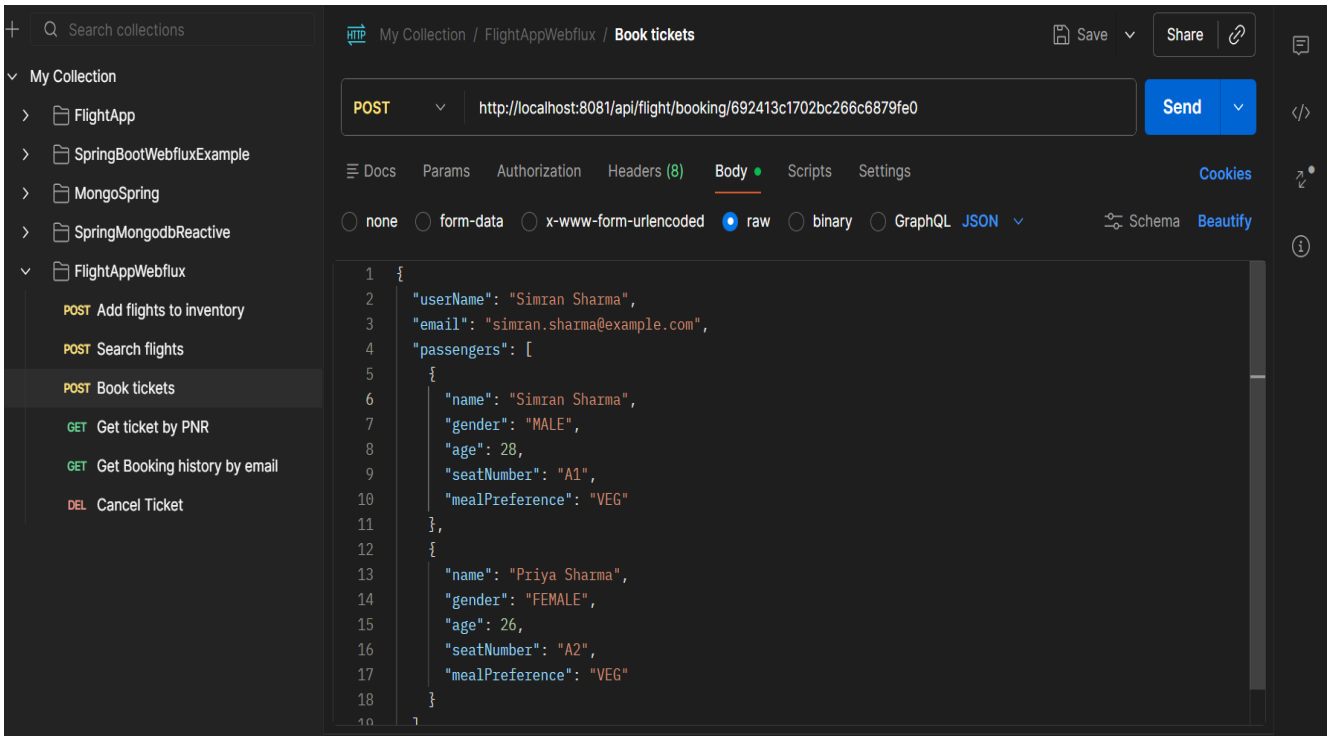
http://localhost:8081/api/flight/search

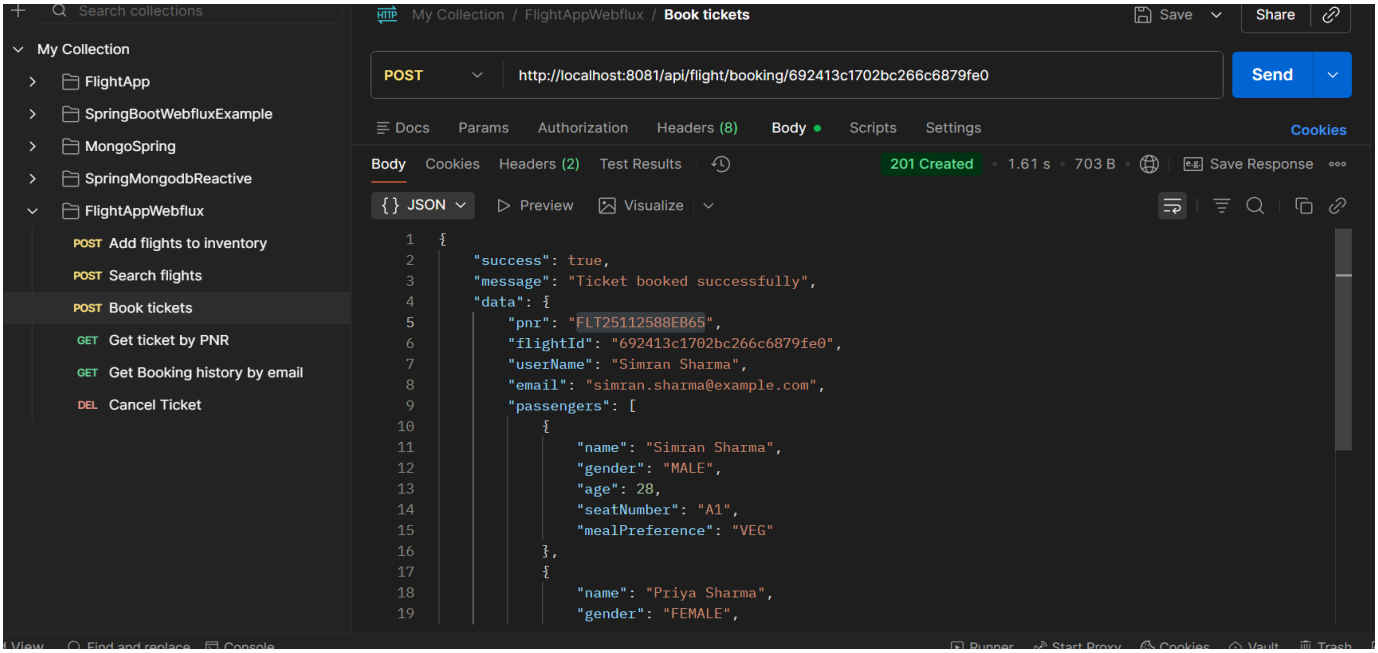



Home
Workspaces
API Network
Search Postman
Ctrl K
Invite
Upgrade
SONAL KUMARI_3114's Workspace
New
Import
No environment
Collections
Environments
History
Flows
Files
BETA
Search collections
My Collection
FlightApp
SpringBootWebfluxExample
MongoSpring
SpringMongodbReactive
FlightAppWebflux
POST Add flights to inventory
POST Search flights
POST Book tickets
GET Get ticket by PNR
GET Get Booking history by email
DEL Cancel Ticket
My Collection / FlightAppWebflux / Search flights
Save
Share
POST
http://localhost:8081/api/flight/search
Send
Docs
Params
Authorization
Headers (8)
Body
Scripts
Settings
Cookies
Body
Cookies
Headers (2)
Test Results
200 OK
131 ms
683 B
Save Response
JSON
Preview
Visualize
[
{
"id": "692411b9702bc266c6879fde",
"airlineName": "Air India",
"airlineLogo": "https://example.com/airindia.png",
"fromLocation": "Delhi",
"toLocation": "Mumbai",
"departureTime": "2025-11-26T10:00:00",
"arrivalTime": "2025-11-26T12:30:00",
"price": 5500.0,
"totalSeats": 180,
"availableSeats": 180,
"flightNumber": "AI101"
},
{
"id": "6924137c702bc266c6879fdf",
"airlineName": "IndiGo",
"airlineLogo": "https://example.com/indigo.png",
"fromLocation": "Delhi",

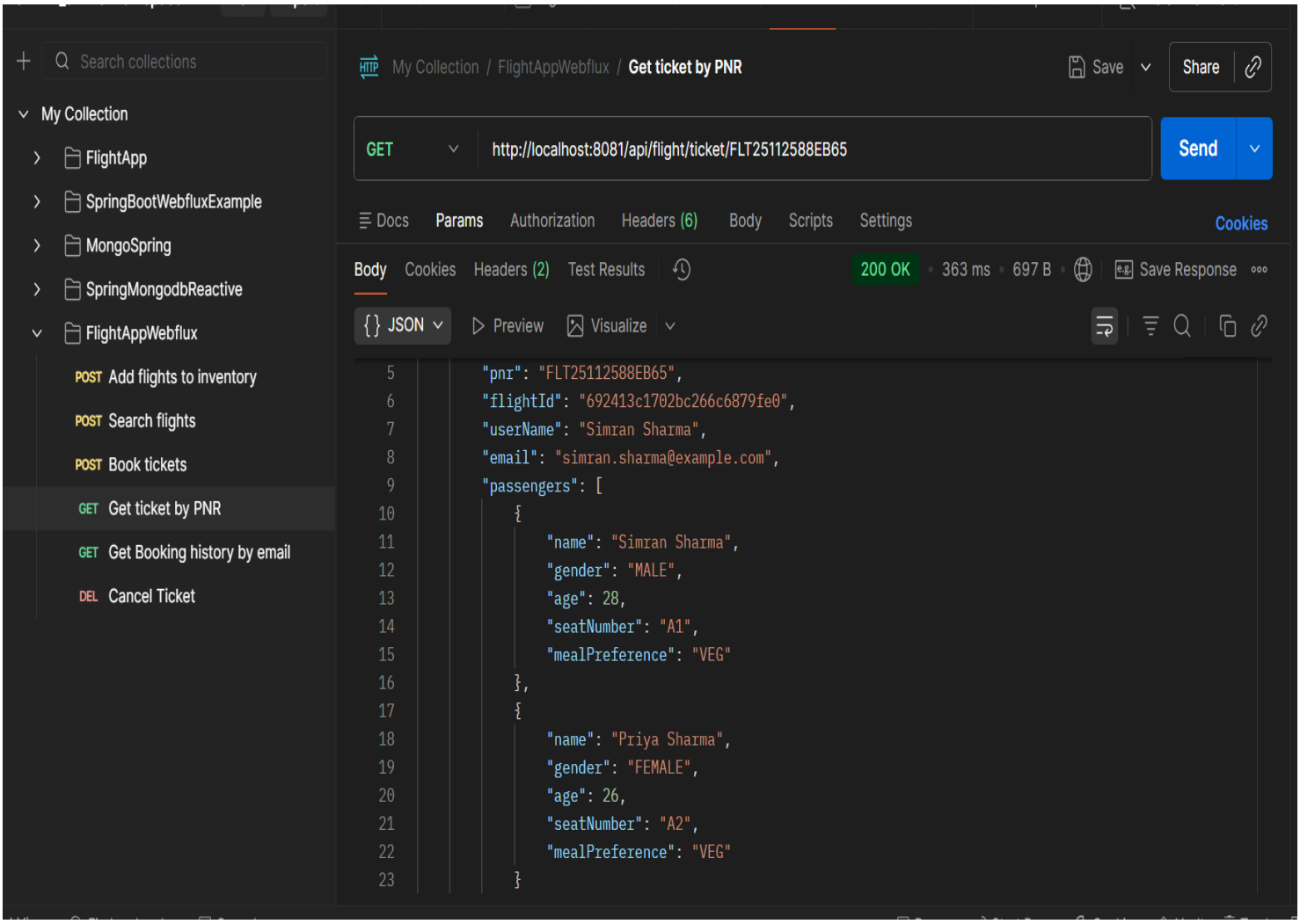
3. POST:

http://localhost:8081/api/flight/booking/692413c1702bc266c6879fe0



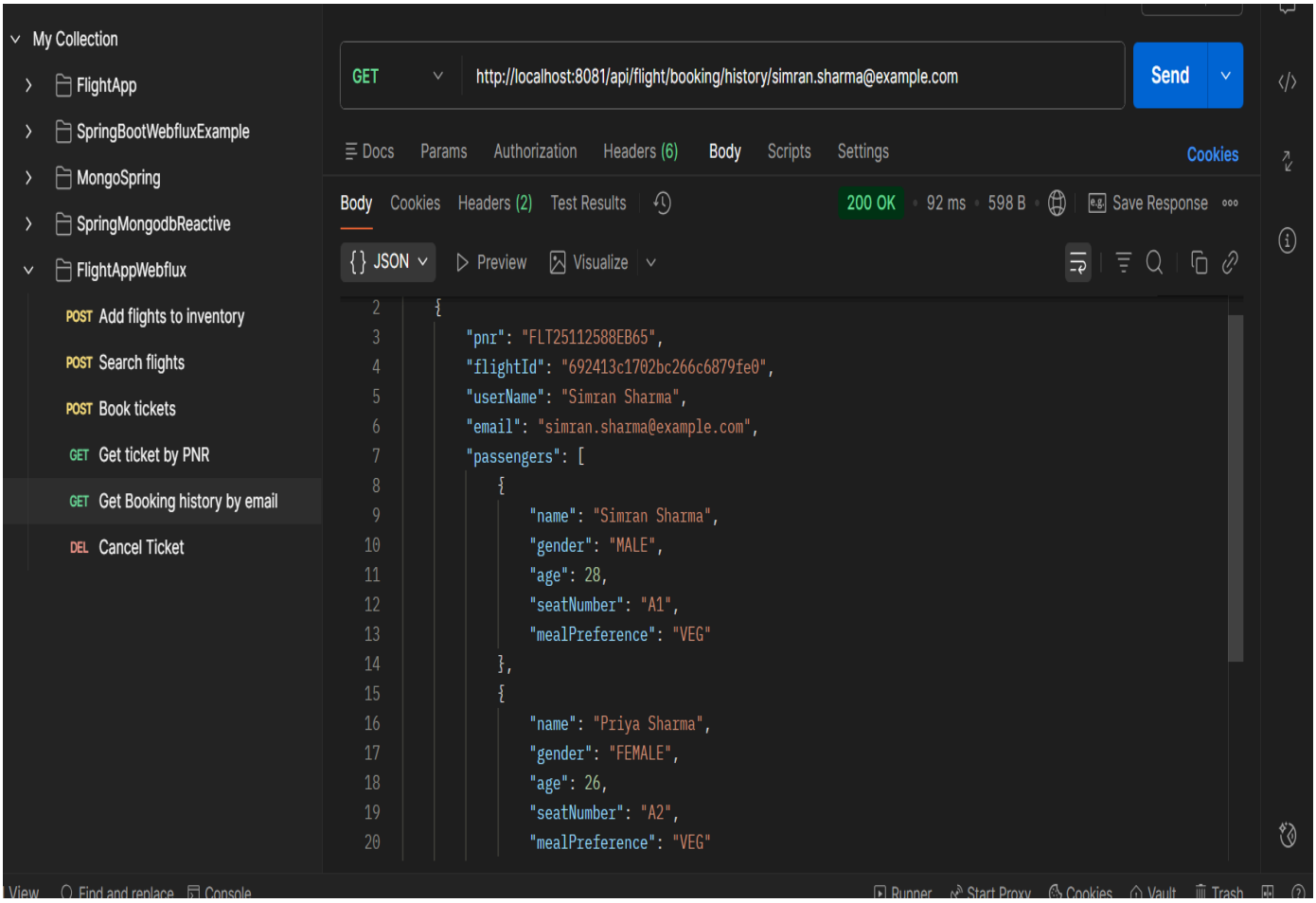


4. GET: http://localhost:8080/api/flight/booking/ticket/FLT25112588EB65



5. GET:

http://localhost:8080/api/flight/booking/history/



6. DELETE: http://localhost:8080/api/flight/booking/cancel/FLT25112588EB65