

CHUBB®

WEEK-7 ASSIGNMENT

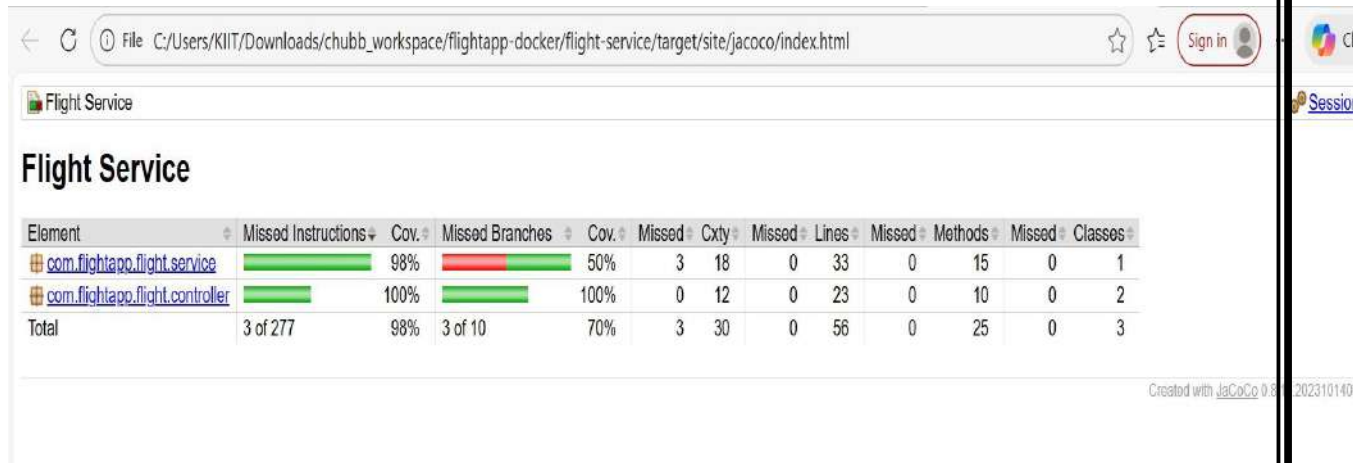
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Bhubaneswar(Java Track)

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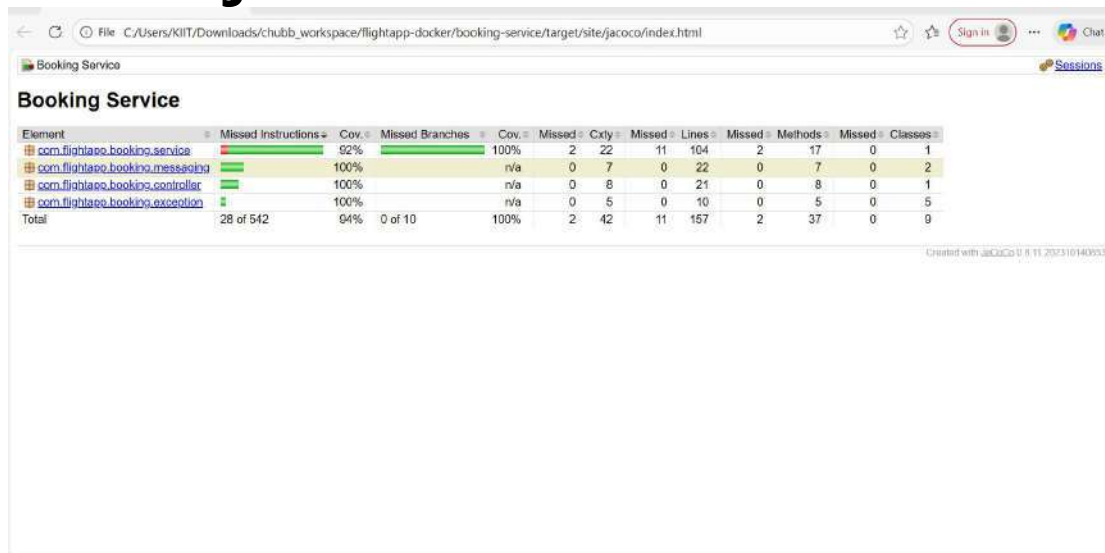
JACOCO REPORTS

FLIGHT SERVICE: 98% COVERAGE

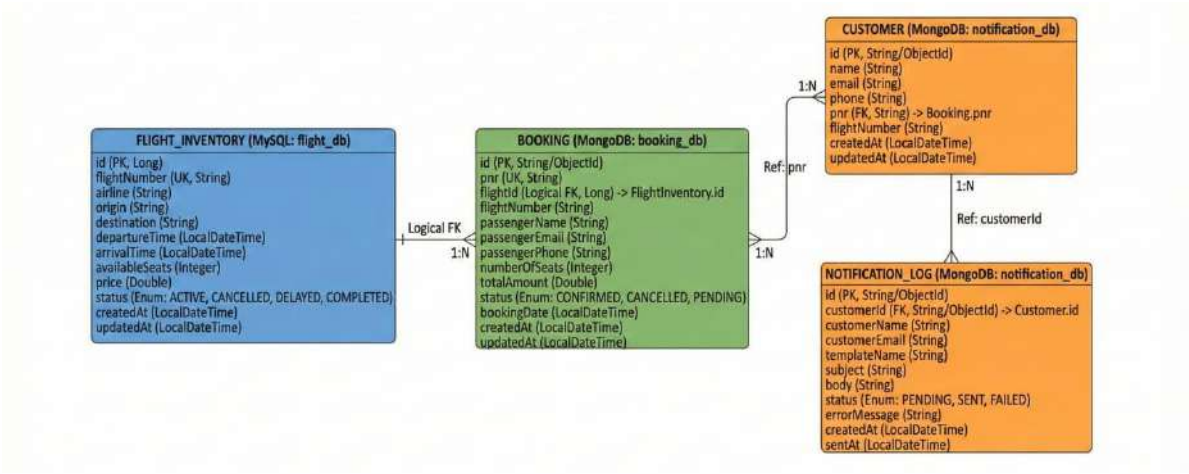


BOOKING SERVICE

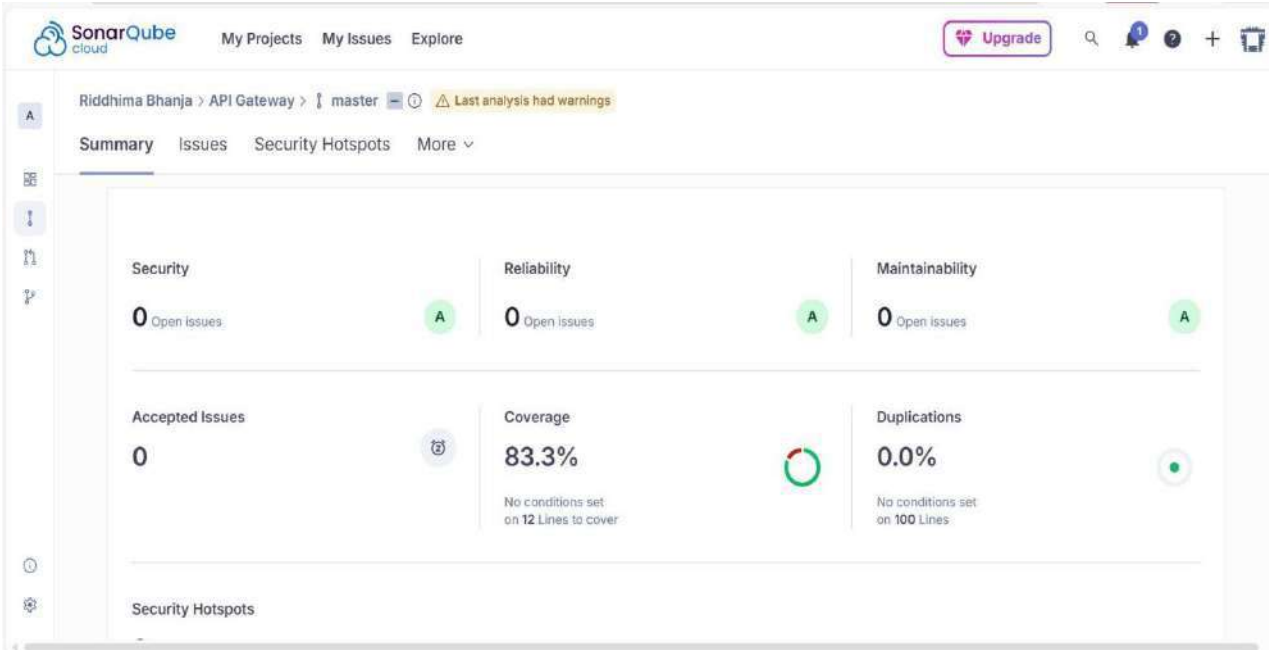
94% coverage



ER DIAGRAM



1. SonarQUBE Code Coverage



2. SonarQube Issues

Before fixing:

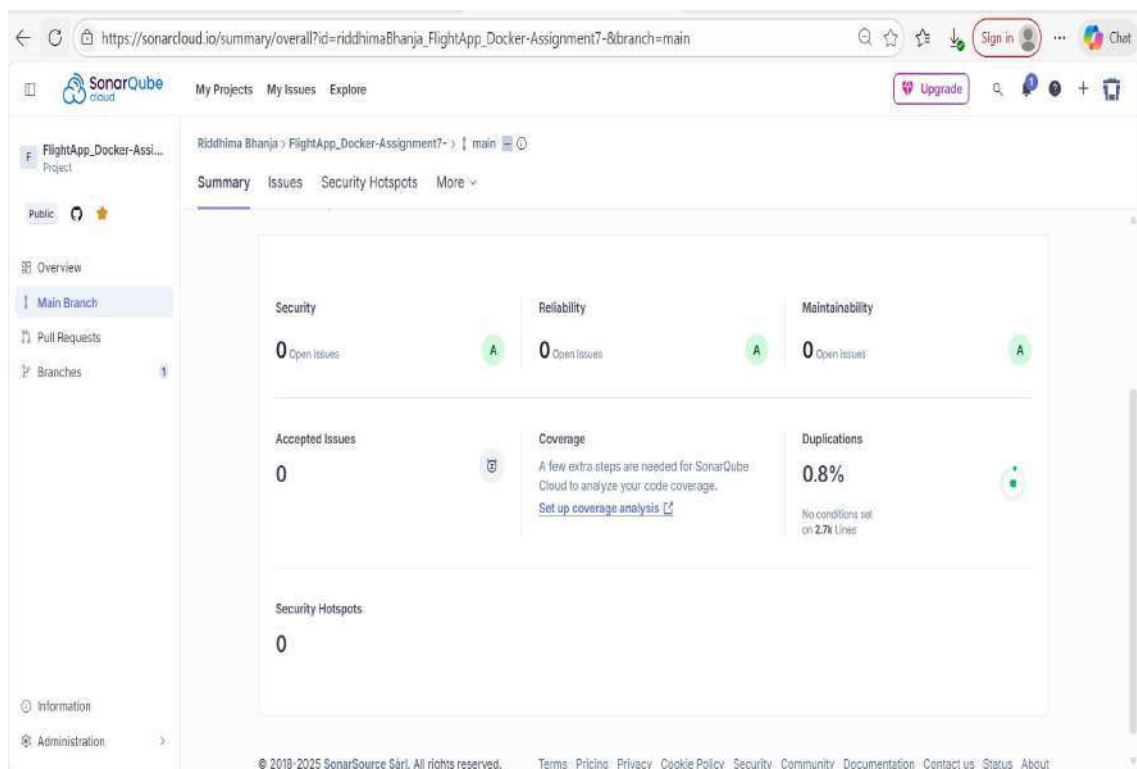
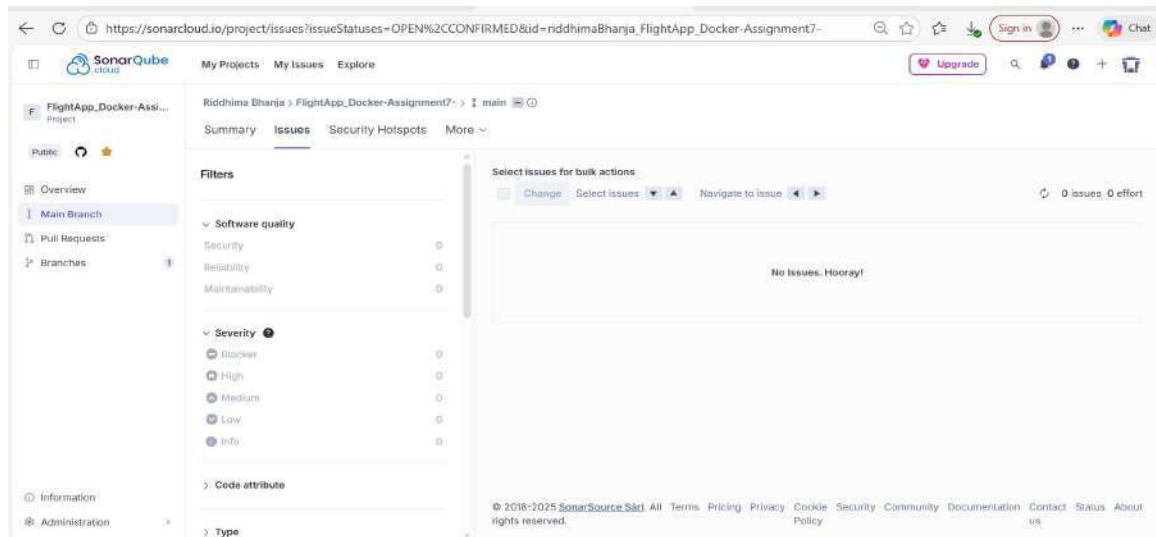
The screenshot shows the SonarQube interface for the 'docker' project. The 'Issues' tab is selected, displaying a list of 32 issues with a total effort of 4h 23min. The left sidebar shows the project structure with 'Main Branch' selected. The main content area shows a list of issues with details such as severity, maintainability, and code attribute.

Issue	Severity	Maintainability	Code attribute
Remove this field injection and use constructor injection instead.	Medium	Medium	Consistency
Inject this field value directly into "customRouteLocator", the only method that uses it.	High	High	Intentionality
Define a constant instead of duplicating this literal "ib://flight-service" 4 times.	High	High	Adaptability

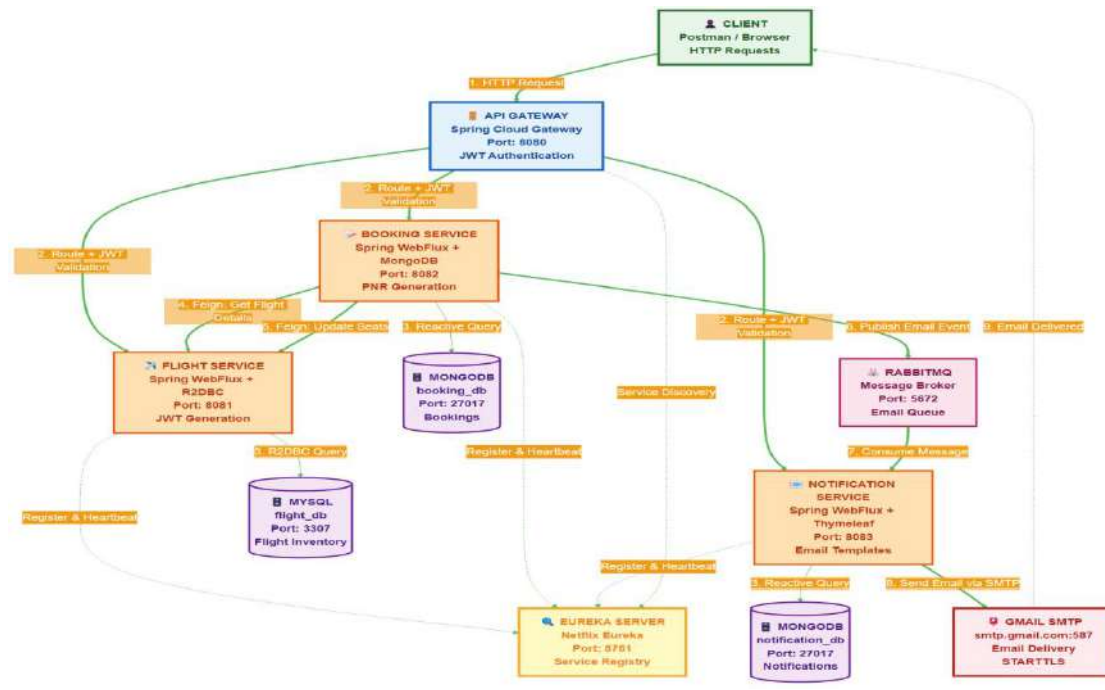
The screenshot shows the SonarQube Summary page for the 'docker' project. The 'Summary' tab is selected, displaying a dashboard with various metrics and quality gates.

Metric	Value	Quality Gate
Security	1 Open issues	E
Reliability	4 Open issues	C
Maintainability	29 Open issues	A
Accepted Issues	0	Pass
Coverage	A few extra steps are needed for SonarQube Cloud to analyze your code coverage. Set up coverage analysis	Pass
Duplications	0.7%	Pass
Security Hotspots	0	Pass

After fixing:

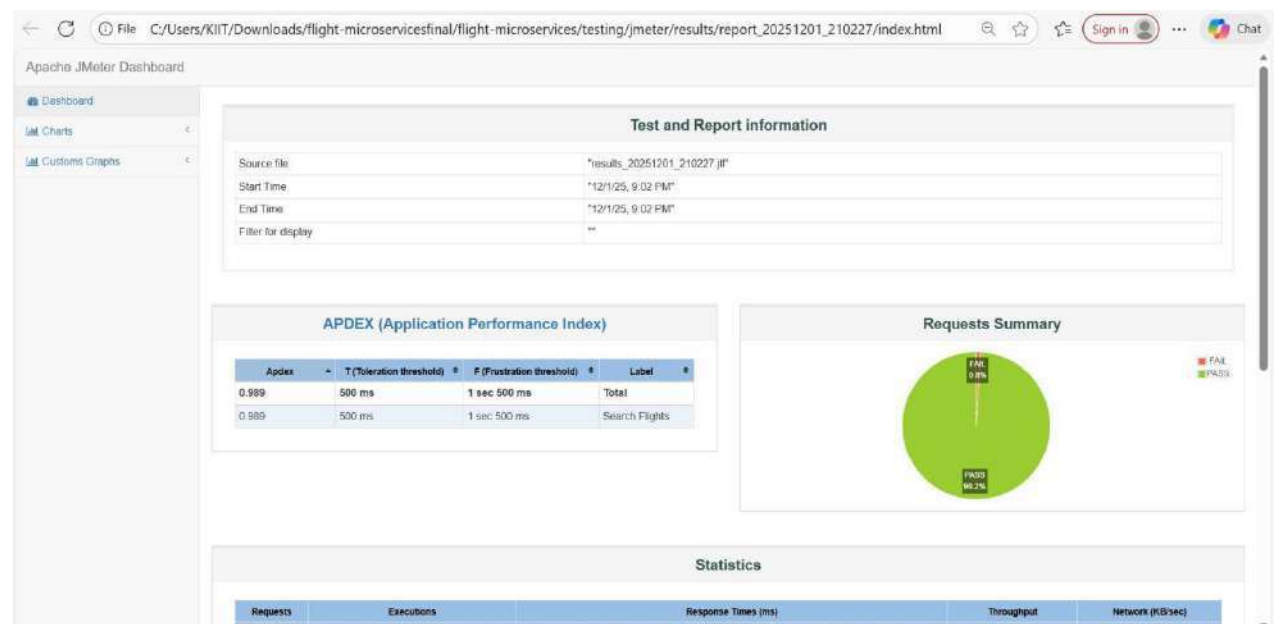


3. System Architecture



4. Jmeter

• Apache Jmeter Dashboard



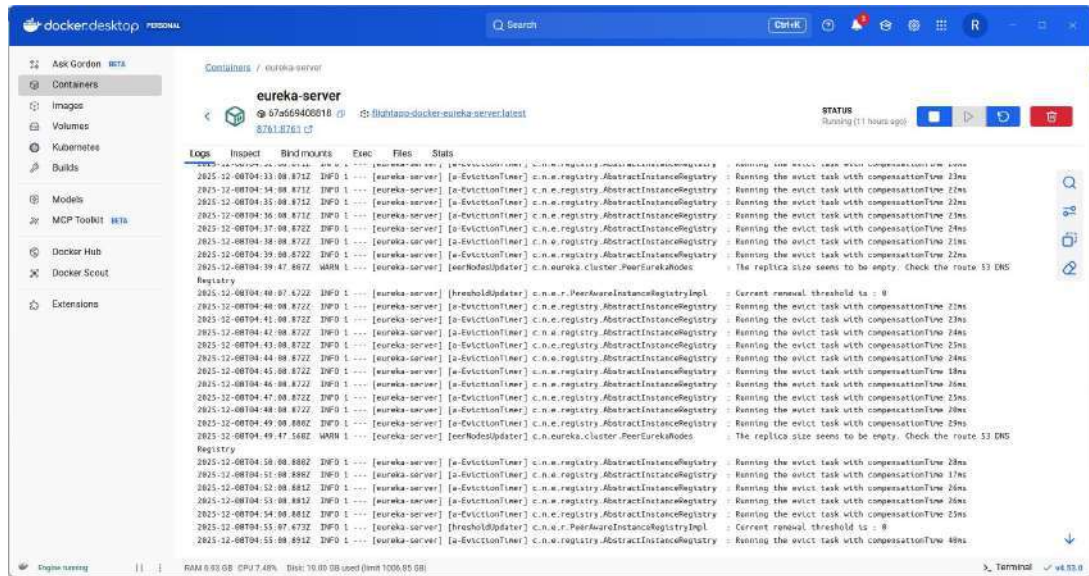
The screenshot displays the Docker Desktop application. On the left sidebar, various system components are listed: Ask Gordon (BETA), Containers, Images, Volumes, Kubernetes, Builds, Models, MCP Toolkit (BETA), Docker Hub, Docker Scout, and Extensions. The main area shows a list of running containers. The 'flightapp-docker' container is selected, and its log output is displayed on the right. The log shows a series of JSON-formatted messages from a client connecting to a MongoDB instance, including metadata, connection details, and a successful connection confirmation.

Container Name	Image	Status	Size	Created	Restart Count	Actions
mysql	mysql:8.0	Running	3307.3308 GB		0	[Stop] [Refresh] [Delete]
rabbitmq	rabbitmq:3.11.5	Running	1567.2167 GB		0	[Stop] [Refresh] [Delete]
mongodb	mongo:7.0	Running	2701.2701 GB		0	[Stop] [Refresh] [Delete]
mailhog	mailhog/mailhog	Running	1025.1025 GB		0	[Stop] [Refresh] [Delete]
flightapp-docker	flightapp-docker	Running	8081.8081 GB		0	[Stop] [Refresh] [Delete]
bookingapp-docker	flightapp-docker	Running	8082.8082 GB		0	[Stop] [Refresh] [Delete]
api-gateway-docker	flightapp-docker	Running	8080.8080 GB		0	[Stop] [Refresh] [Delete]
eureka-server-docker	flightapp-docker	Running	8761.8761 GB		0	[Stop] [Refresh] [Delete]
notification-docker	flightapp-docker	Running			0	[Stop] [Refresh] [Delete]

```

{"clientMetadata":{"name":"mongodb.2.5.9","driver":{"name":"nodesjnonhosh","version":"6.19.0(2.5.9)","platform":"Node.js v20.19.5, LE","os":{"type":"Linux","architecture":"x64","version":"3.10.0-327.22.2.el7.x86_64"},"type":"Linux"},"env":{"container":{"runtime":"docker"}}}}
{"sdate":"2025-12-08T04:51:51.463+00:00","s":"I","c":"ACCESS","id":"10483900","ctx":{"conn35088","msg":"Connection not authenticating","attr":{"client":{"name":"mongodb.2.5.9","driver":{"name":"nodesjnonhosh","version":"6.19.0(2.5.9)","platform":"Node.js v20.19.5, LE","os":{"name":"Linux","architecture":"x64","version":"3.10.0-327.22.2.el7.x86_64"},"type":"Linux"},"env":{"container":{"runtime":"docker"}}}}}}
{"sdate":"2025-12-08T04:51:51.463+00:00","s":"I","c":"NETWORK","ld":"6788760","ctx":{"conn35088","msg":"Received first command on ingress connection since session start or auth handshake","attr":{"elapsedMillis":2}}
{"sdate":"2025-12-08T04:51:51.487+00:00","s":"I","c":"NETWORK","ld":"22944","ctx":{"conn35088","msg":"Connection ended","attr":{"remote":{"name":"nodesjnonhosh","version":"6.19.0(2.5.9)","platform":"Node.js v20.19.5, LE","os":{"name":"Linux","architecture":"x64","version":"3.10.0-327.22.2.el7.x86_64"},"type":"Linux"},"env":{"container":{"runtime":"docker"}}}}
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{"sdate":"2025-12-08T04:51:51.487+00:00","s":"I","c":"NETWORK","ld":"22944","ctx":{"conn35088","msg":"Connection ended","attr":{"remote":{"name":"nodesjnonhosh","version":"6.19.0(2.5.9)","platform":"Node.js v20.19.5, LE","os":{"name":"Linux","architecture":"x64","version":"3.10.0-327.22.2.el7.x86_64"},"type":"Linux"},"env":{"container":{"runtime":"docker"}}}}
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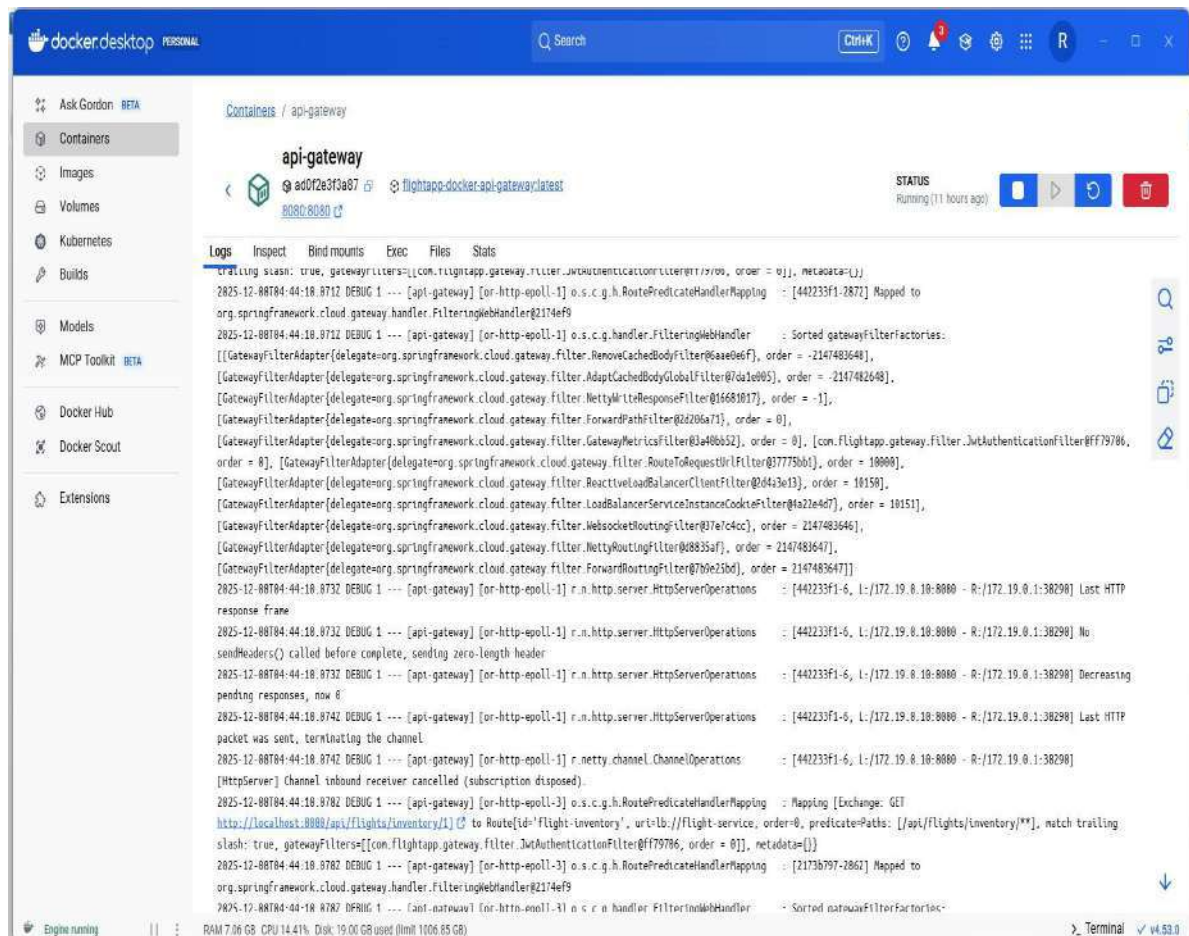

EUREKA SERVER LOGS



The screenshot shows the Docker Desktop interface with the 'eureka-server' container selected. The logs tab is active, displaying a series of log entries. The logs show the container starting up and then entering a loop of 'Running the evict task with compensationTime 23ms' and 'The replica size seems to be empty. Check the route 53 DNS'.

```
2025-12-08T04:33:08.871Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:34:08.871Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:35:08.871Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:36:08.871Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:37:08.871Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:38:08.871Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:39:08.871Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:39:47.867Z WARN 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - The replica size seems to be empty. Check the route 53 DNS
Registry
2025-12-08T04:40:07.472Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistryImpl] - Current removal threshold is: 0
2025-12-08T04:41:08.871Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:42:08.871Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:43:08.871Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:44:08.871Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:45:08.871Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:46:08.871Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:47:08.871Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:48:08.871Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:49:08.866Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:49:47.582Z WARN 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - The replica size seems to be empty. Check the route 53 DNS
Registry
2025-12-08T04:50:08.866Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistryImpl] - Current removal threshold is: 0
2025-12-08T04:51:08.866Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:52:08.866Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:53:08.866Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:54:08.866Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:55:08.866Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 23ms
2025-12-08T04:55:08.866Z INFO 1 --- [eureka-server] [c.n.e.registry.AbstractInstanceRegistry] - Running the evict task with compensationTime 49ms
```

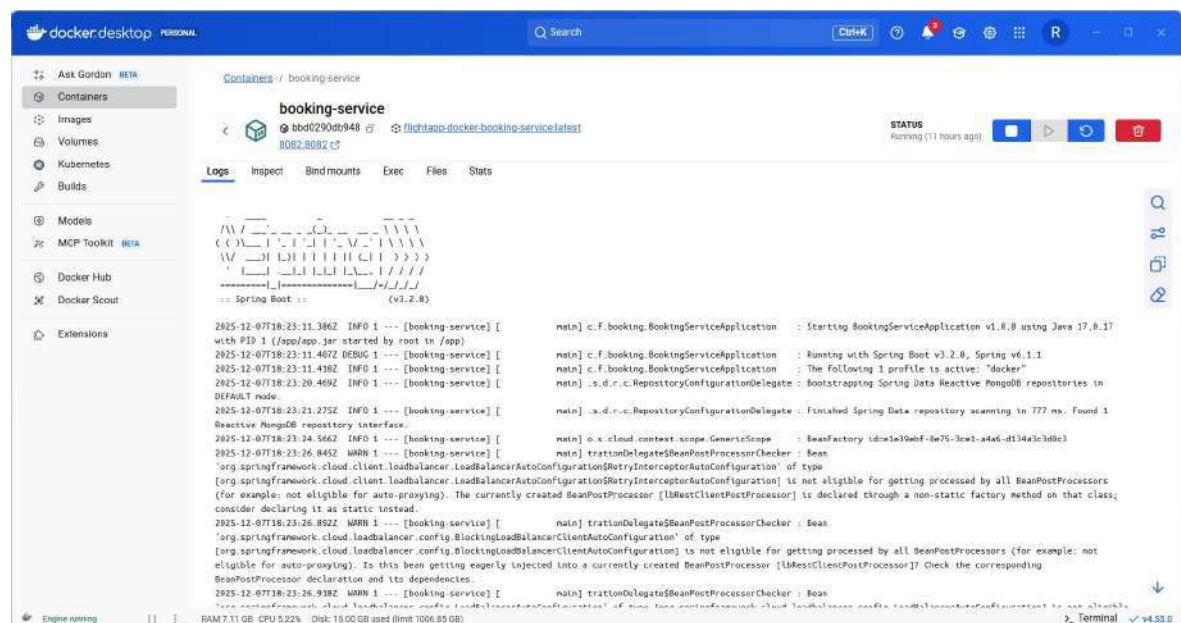
API GATEWAY



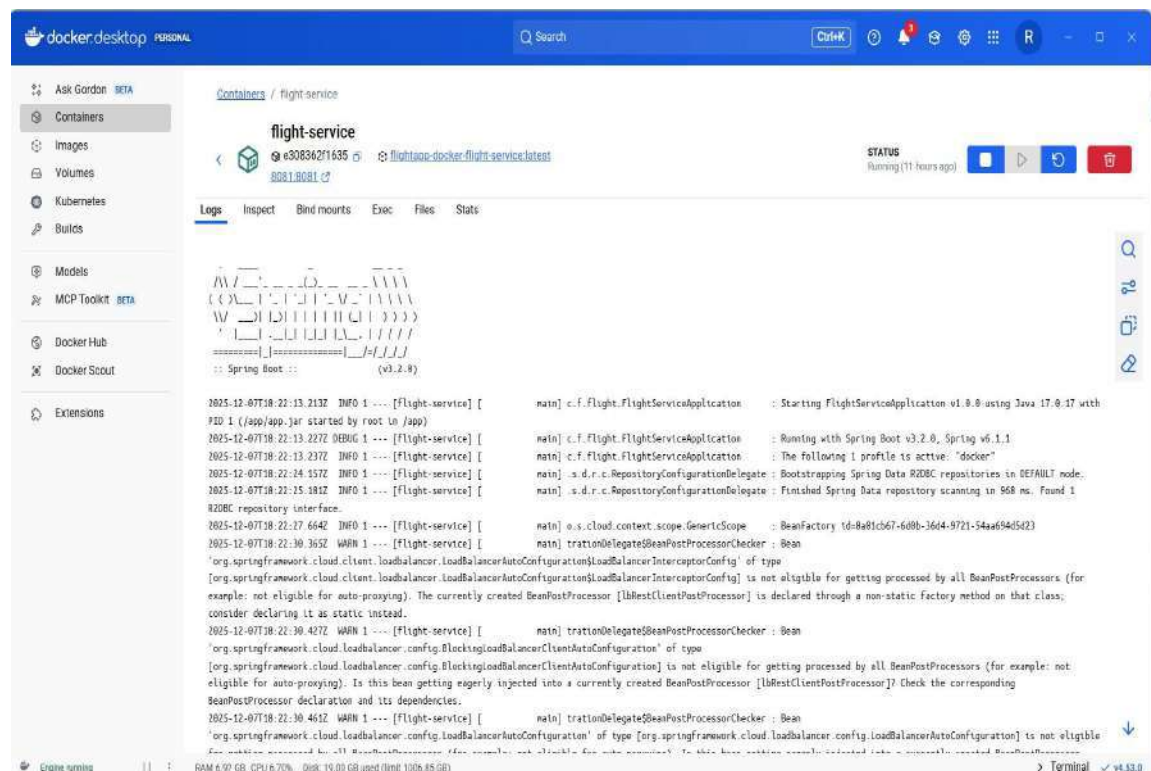
The screenshot shows the Docker Desktop interface with the 'api-gateway' container selected. The logs tab is active, displaying a series of log entries. The logs show the container starting up and then processing HTTP requests, including mapping routes and handling requests.

```
2025-12-08T04:44:18.871Z DEBUG 1 --- [api-gateway] [or-http-epoll-1] o.s.c.g.h.RoutePredicateHandlerMapping - [442233f1-2872] Mapped to
org.springframework.cloud.gateway.handler.FilteringHandler@2174e9f9
2025-12-08T04:44:18.871Z DEBUG 1 --- [api-gateway] [or-http-epoll-1] o.s.c.g.handler.FilteringHandler - Sorted gatewayFilterFactories:
[[GatewayFilterAdapter(delegate=org.springframework.cloud.gateway.filter.RemoveCachedBodyFilter@6a0b6eff, order = -2147483648),
GatewayFilterAdapter(delegate=org.springframework.cloud.gateway.filter.AdaptCachedBodyGlobalFilter@0a1e0905, order = -2147483648),
GatewayFilterAdapter(delegate=org.springframework.cloud.gateway.filter.NettyWriteResponseFilter@16688017, order = -1),
GatewayFilterAdapter(delegate=org.springframework.cloud.gateway.filter.ForwardPathFilter@2206a71, order = 0),
GatewayFilterAdapter(delegate=org.springframework.cloud.gateway.filter.GatewayMetricsFilter@0440652, order = 0), [com.flightapp.gateway.filter.JwtAuthenticationFilter@ff79786,
order = 0], [GatewayFilterAdapter(delegate=org.springframework.cloud.gateway.filter.RouteToRequestUrlFilter@7775b0b1, order = 10000),
GatewayFilterAdapter(delegate=org.springframework.cloud.gateway.filter.ReactiveLoadBalancerClientFilter@0433e13, order = 10150),
GatewayFilterAdapter(delegate=org.springframework.cloud.gateway.filter.LoadBalancerServiceInstanceCookieFilter@0a27e4d7, order = 10151),
GatewayFilterAdapter(delegate=org.springframework.cloud.gateway.filter.WebsocketRoutingFilter@7e7c4cc, order = 2147483646),
GatewayFilterAdapter(delegate=org.springframework.cloud.gateway.filter.NettyRoutingFilter@08835af, order = 2147483647),
GatewayFilterAdapter(delegate=org.springframework.cloud.gateway.filter.ForwardRoutingFilter@799e23d0, order = 2147483647)]
2025-12-08T04:44:18.873Z DEBUG 1 --- [api-gateway] [or-http-epoll-1] r.n.http.server.HttpServerOperations - [442233f1-6, L:/172.19.0.10:8080 - R:/172.19.0.1:38298] Last HTTP
response frame
2025-12-08T04:44:18.873Z DEBUG 1 --- [api-gateway] [or-http-epoll-1] r.n.http.server.HttpServerOperations - [442233f1-6, L:/172.19.0.10:8080 - R:/172.19.0.1:38298] No
sendHeaders() called before complete, sending zero-length header
2025-12-08T04:44:18.873Z DEBUG 1 --- [api-gateway] [or-http-epoll-1] r.n.http.server.HttpServerOperations - [442233f1-6, L:/172.19.0.10:8080 - R:/172.19.0.1:38298] Decreasing
pending responses, now 6
2025-12-08T04:44:18.874Z DEBUG 1 --- [api-gateway] [or-http-epoll-1] r.n.http.server.HttpServerOperations - [442233f1-6, L:/172.19.0.10:8080 - R:/172.19.0.1:38298] Last HTTP
packet was sent, terminating the channel
2025-12-08T04:44:18.874Z DEBUG 1 --- [api-gateway] [or-http-epoll-1] r.netty.channel.ChannelOperations - [442233f1-6, L:/172.19.0.10:8080 - R:/172.19.0.1:38298]
[HttpServer] Channel inbound receiver cancelled (subscription disposed).
2025-12-08T04:44:18.874Z DEBUG 1 --- [api-gateway] [or-http-epoll-3] o.s.c.g.h.RoutePredicateHandlerMapping - Mapping [Exchange: GET
http://localhost:8080/api/flights/inventory/1] to Route[id='flight-inventory', uri=lb://flight-service, order=0, predicatePaths: [/api/flights/inventory/**], match trailing
slash: true, gatewayFilters:[com.flightapp.gateway.filter.JwtAuthenticationFilter@ff79786, order=0], metadata=]
2025-12-08T04:44:18.876Z DEBUG 1 --- [api-gateway] [or-http-epoll-3] o.s.c.g.h.RoutePredicateHandlerMapping - [21736797-2862] Mapped to
org.springframework.cloud.gateway.handler.FilteringHandler@2174e9f9
2025-12-08T04:44:18.878Z DEBUG 1 --- [api-gateway] [or-http-epoll-3] o.s.c.g.handler.FilteringHandler - Sorted gatewayFilterFactories:
```

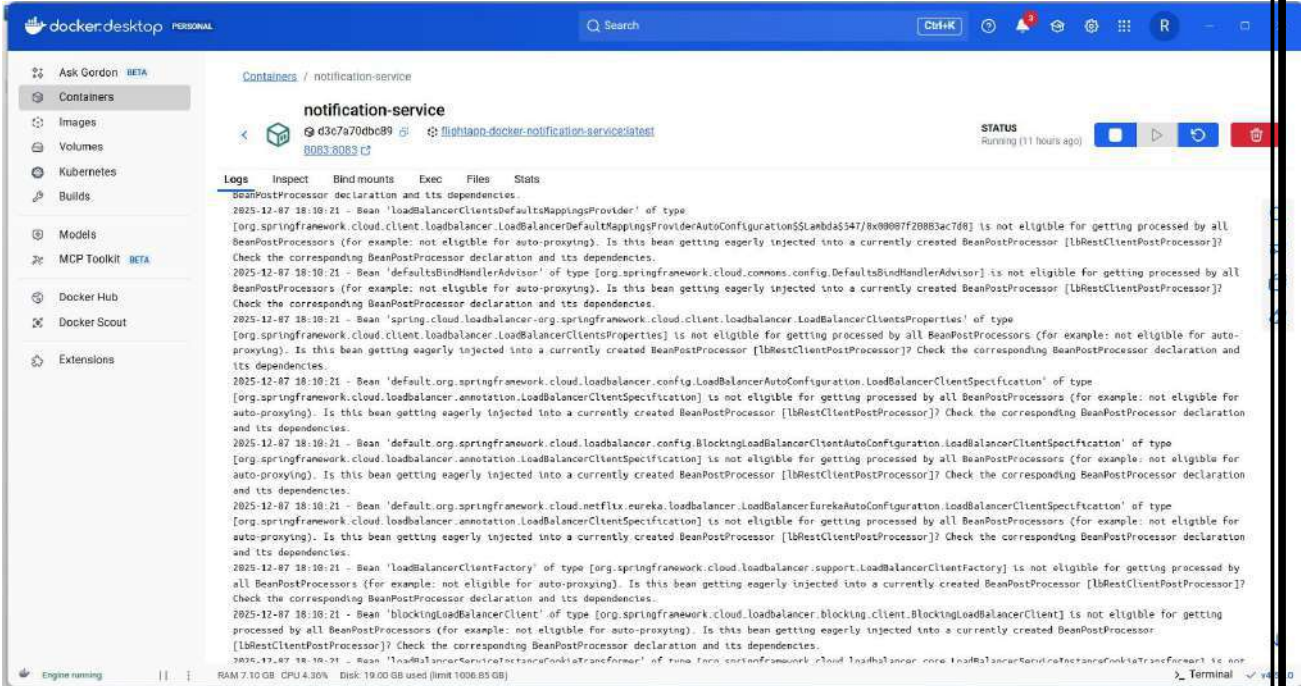
BOOKING SERVICE LOGS



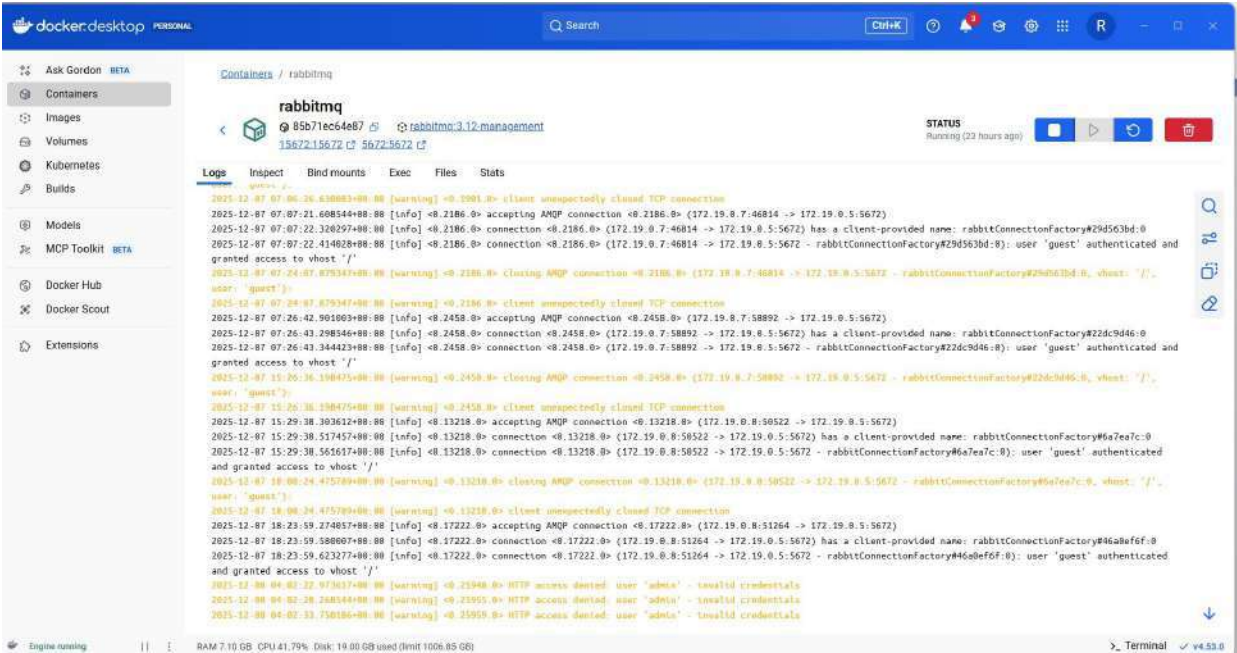
FLIGHT SERVICE LOGS



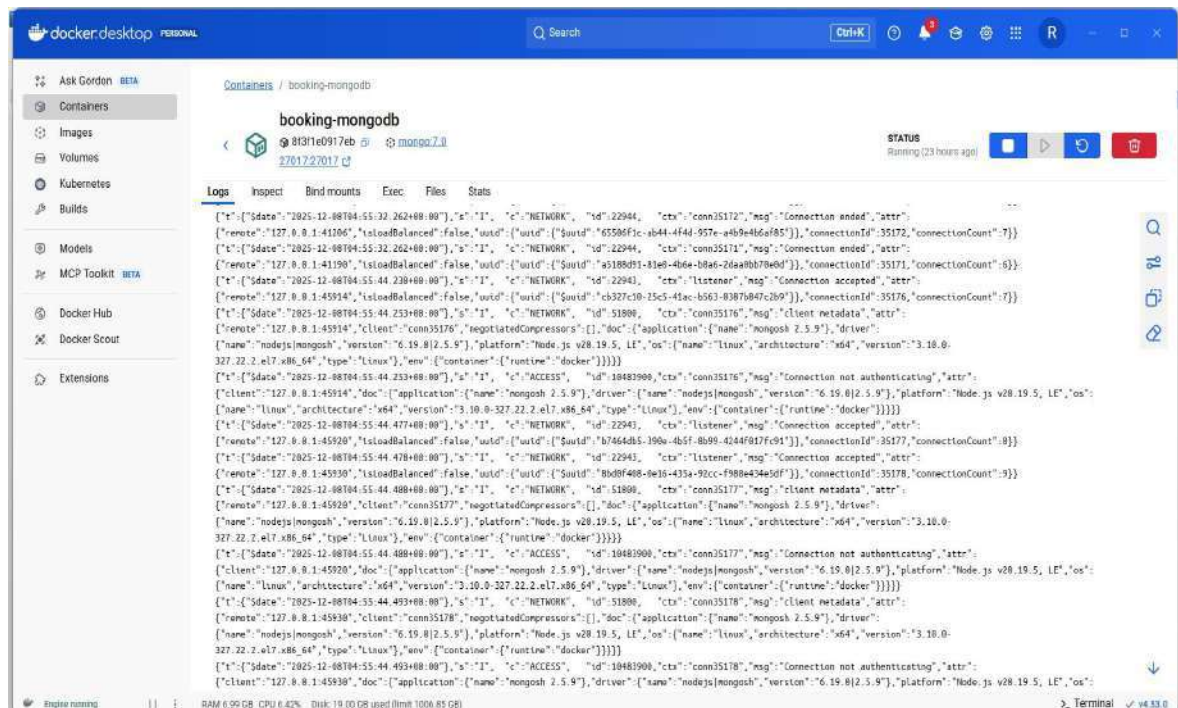
NOTIFICATION SERVICE LOGS



RabbitMQ logs

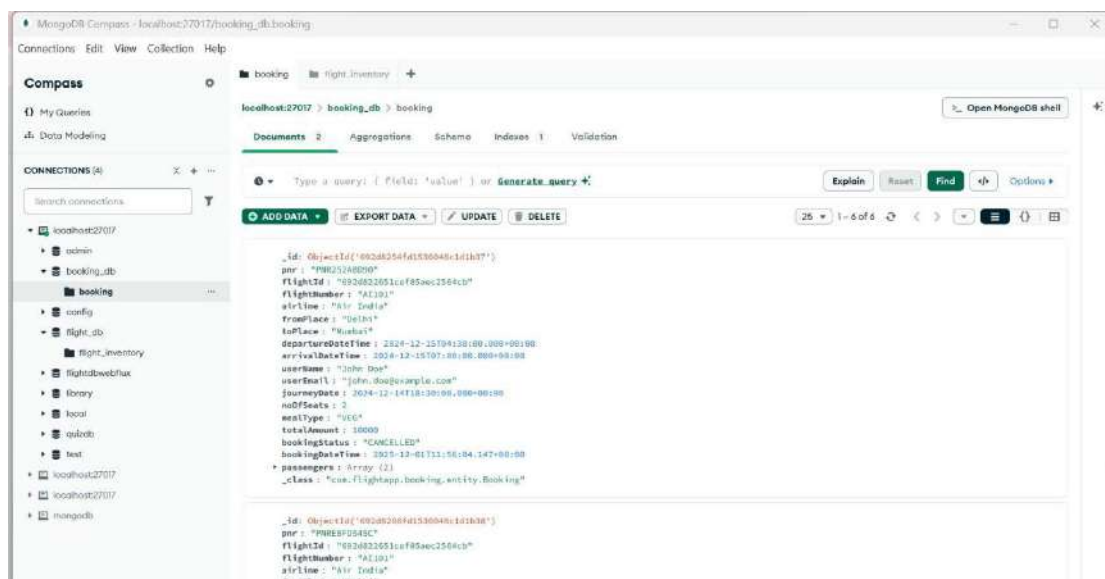


Mongodb logs

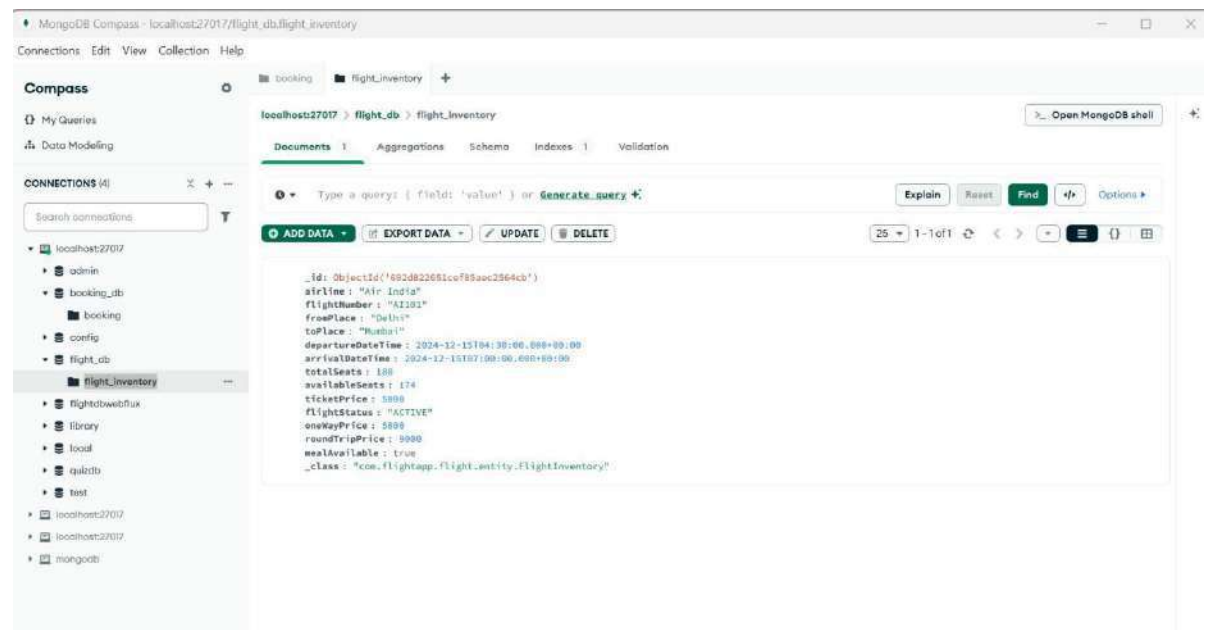


5.Mongodb screenshots

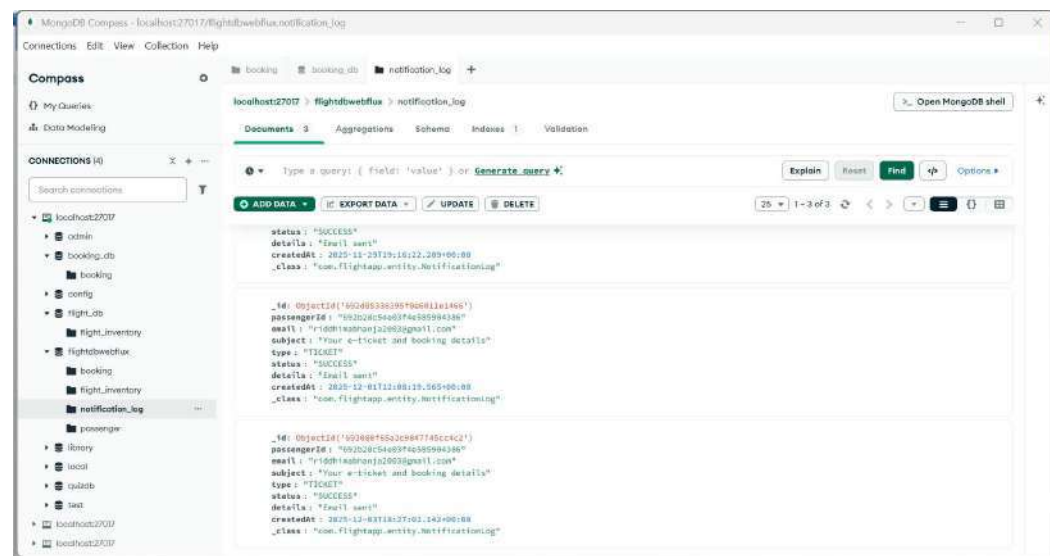
- Booking_db



- Flight db

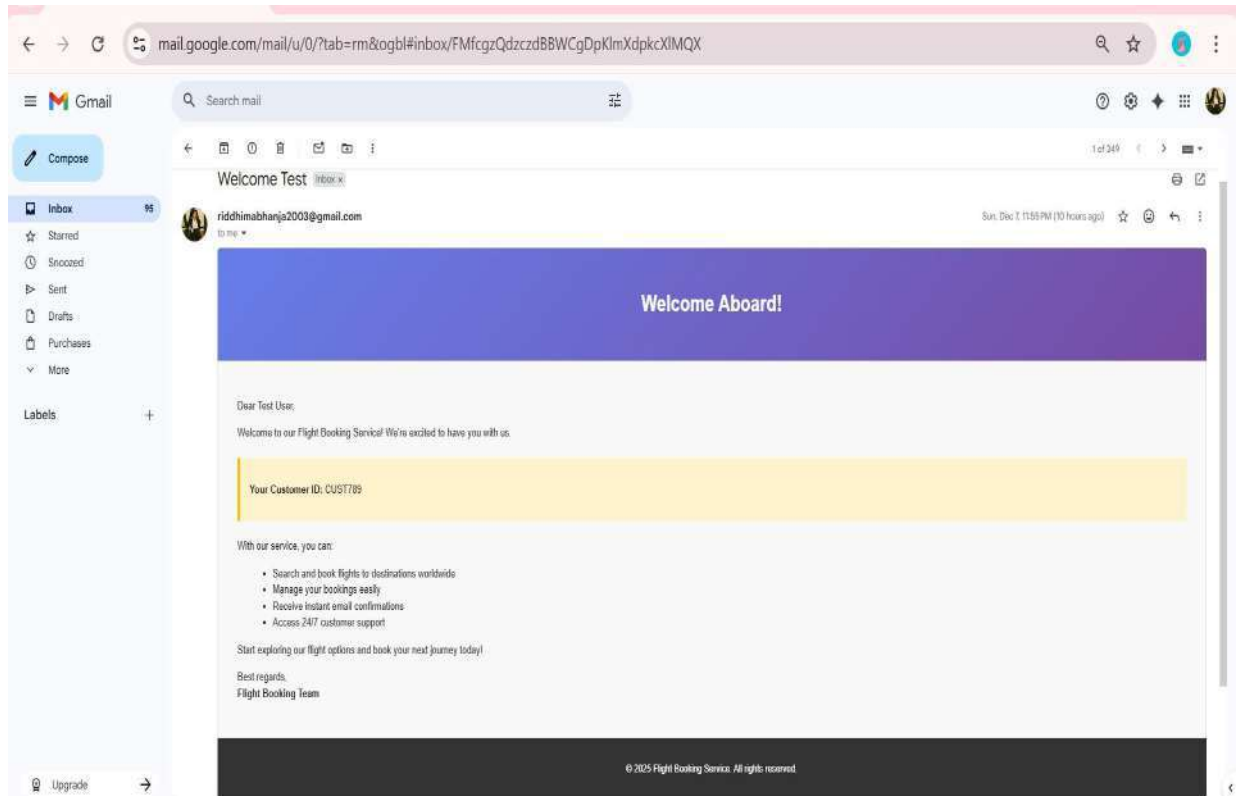


- Notification logs

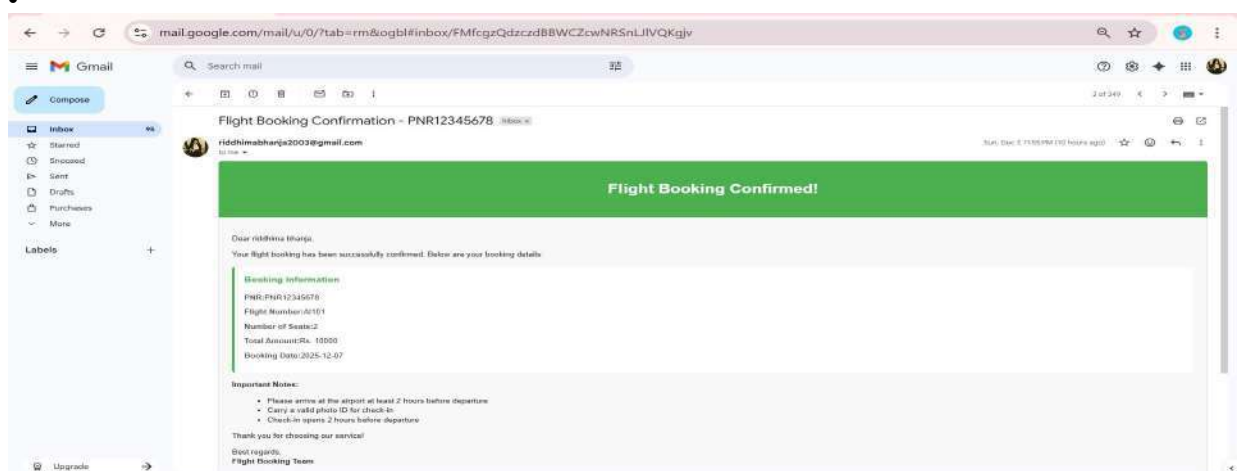


5. Email

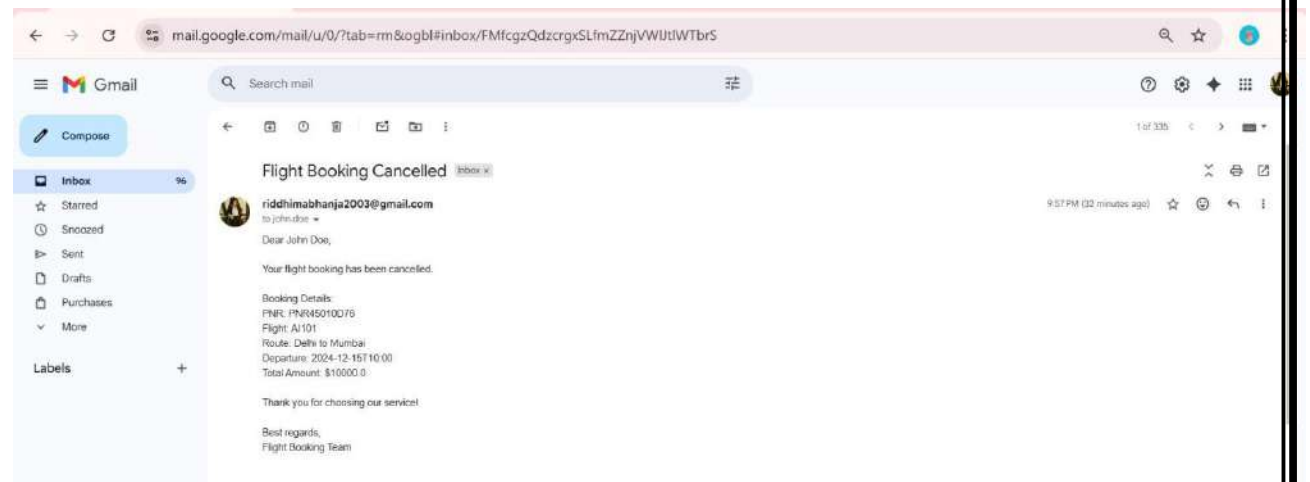
• Welcome Email



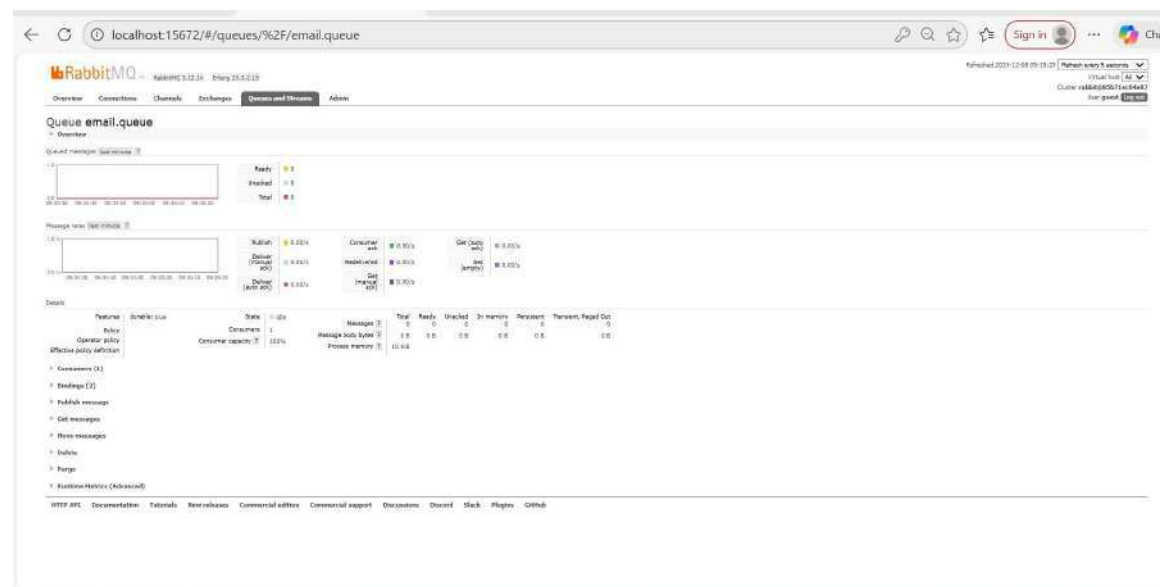
• Confirm Booking Email



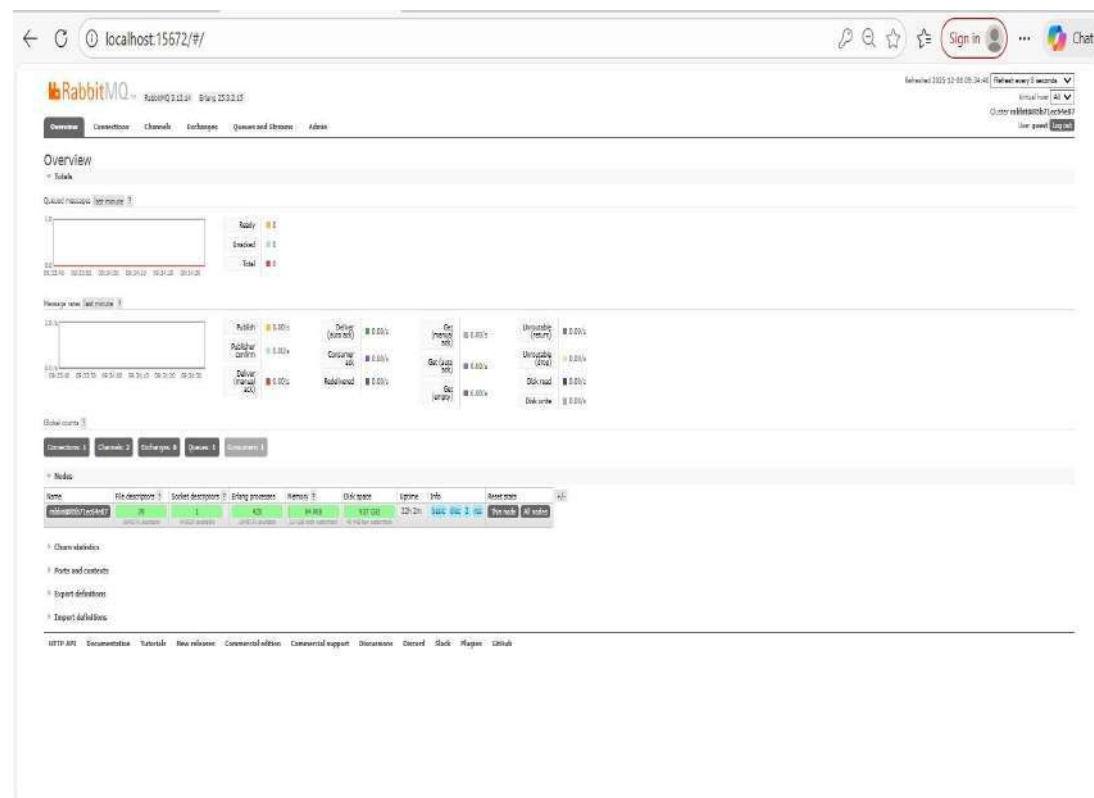
- Flight cancel email



RabbitMQ email-queue dashboard

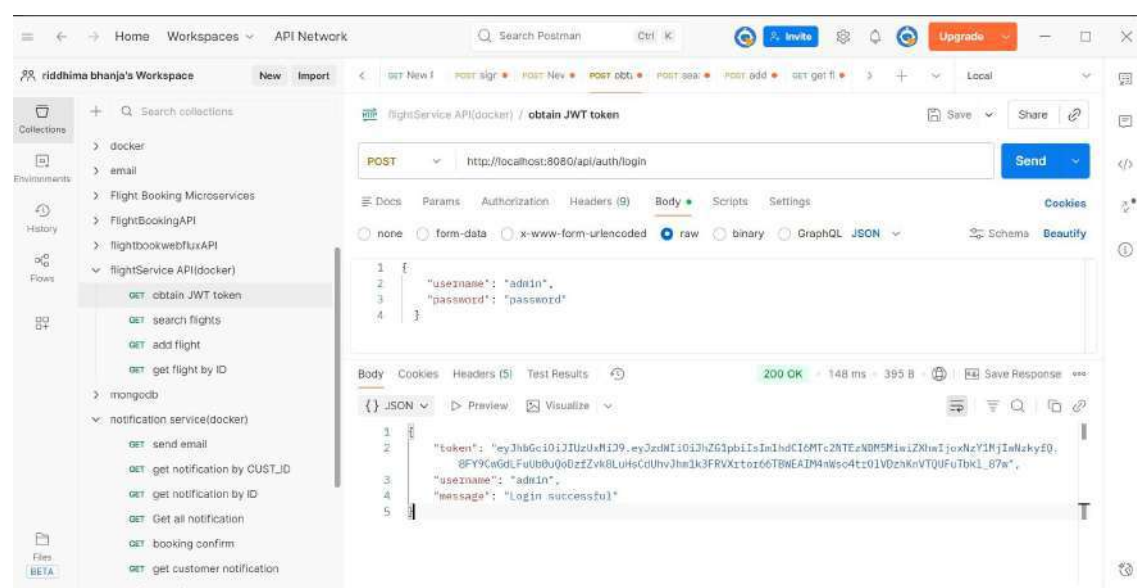


RabbitMQ overview dashboard

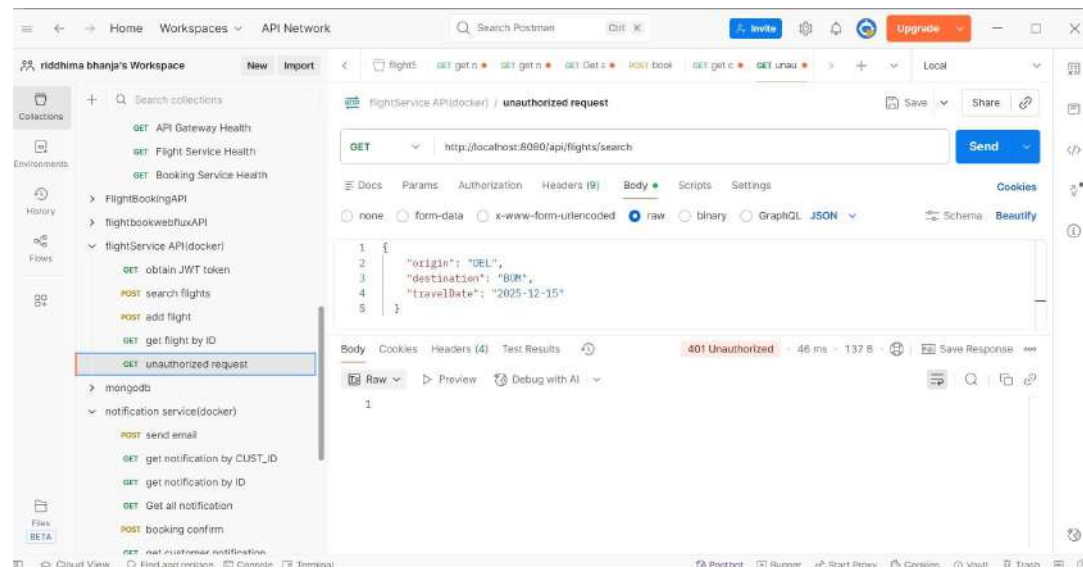


6. Postman screenshots

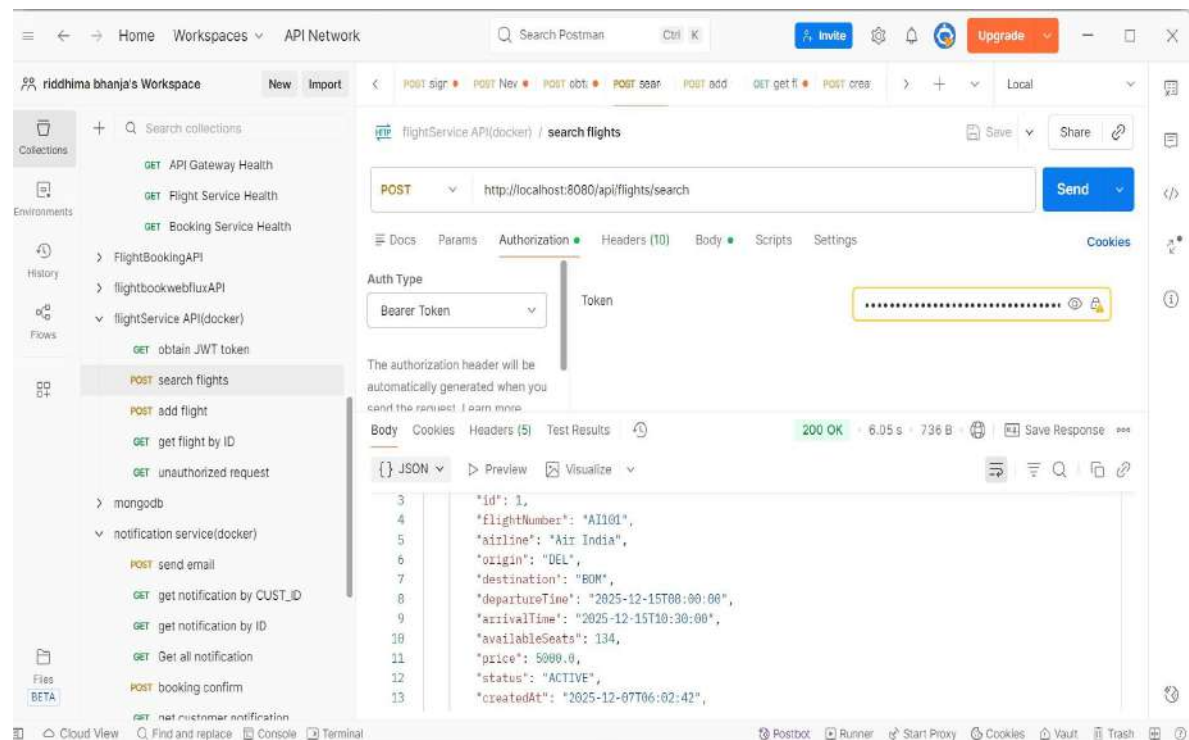
Obtain JWT TOKEN



Unauthorized access

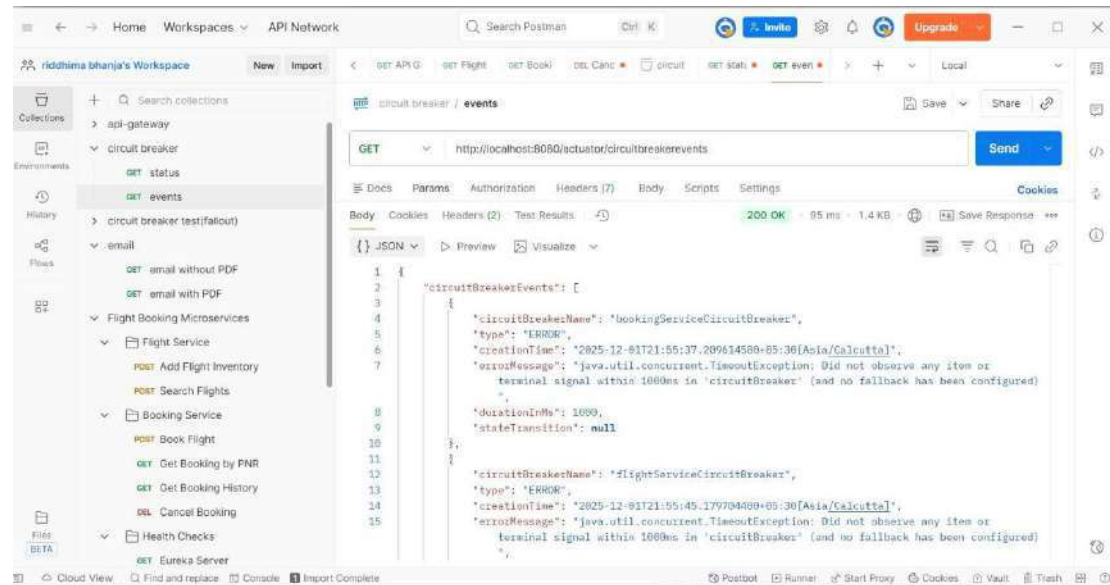


Same endpoint with auth bearer token

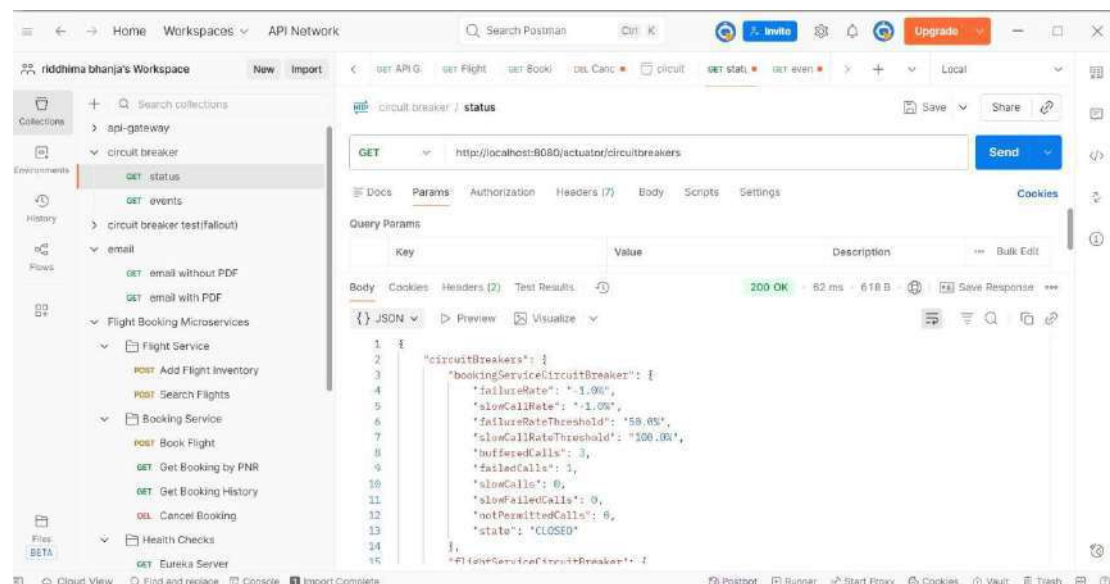


- **Circuit Breaker**

Events:

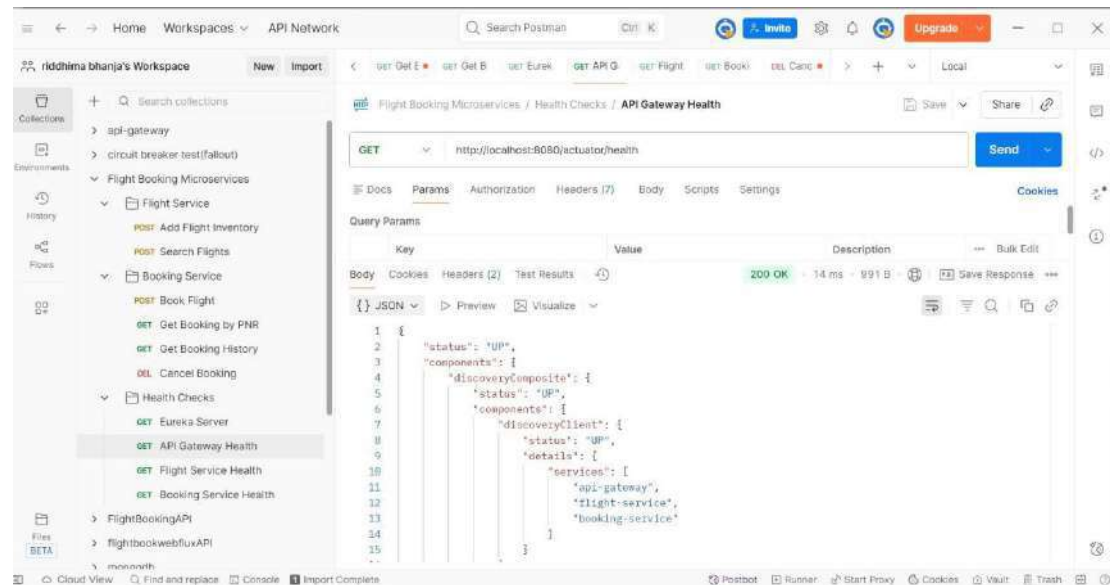


Status:

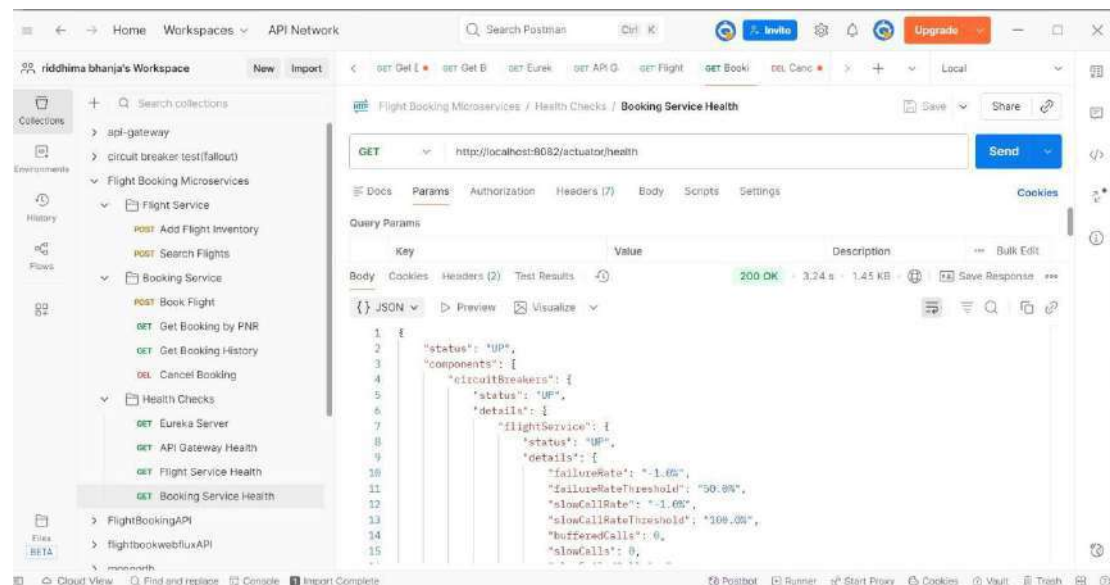


• Health Check

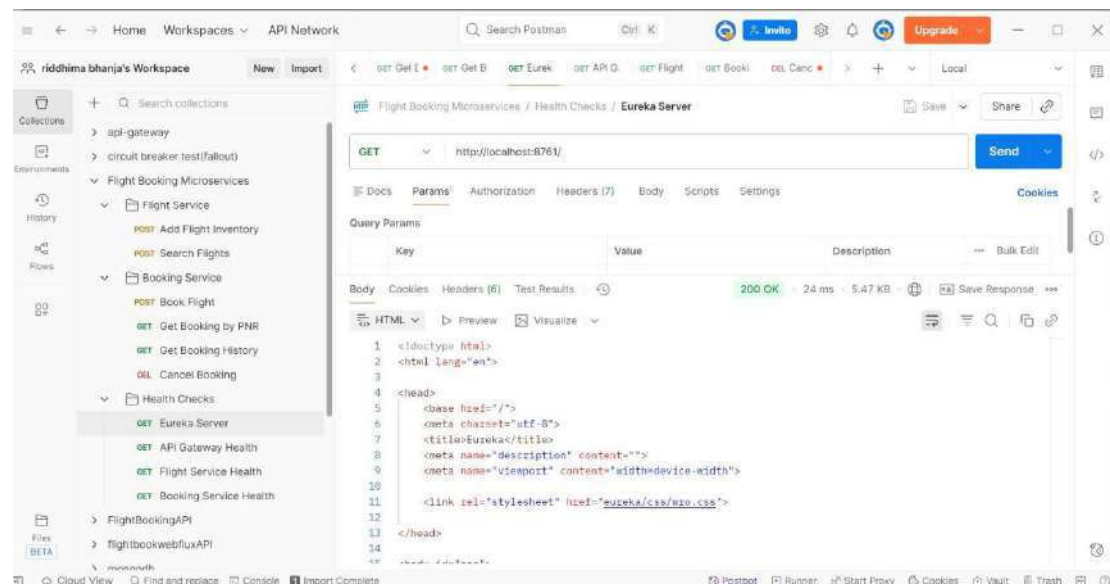
API gateway health:



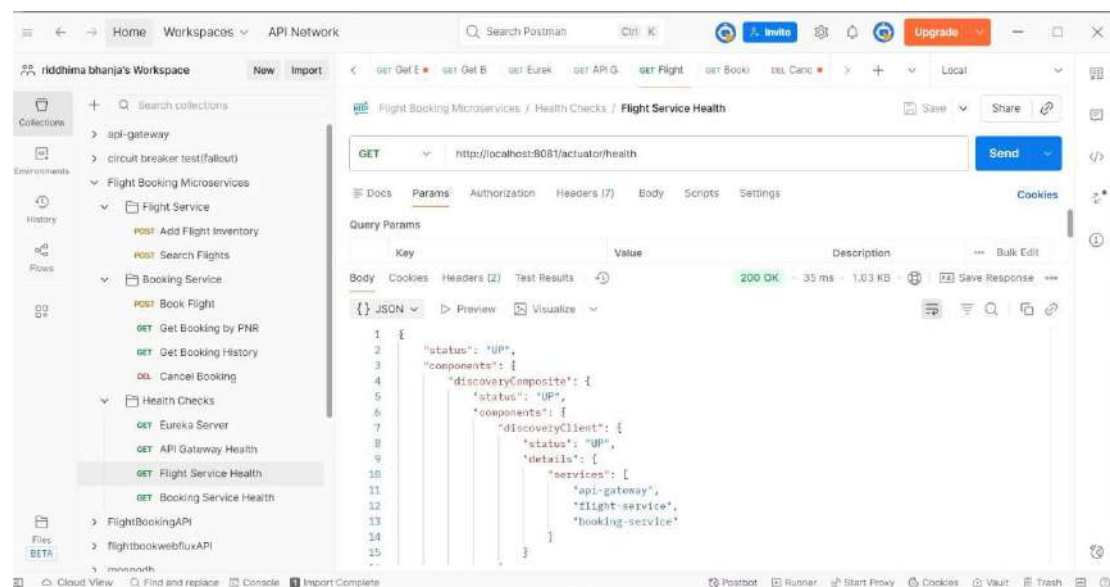
Booking Service Health:



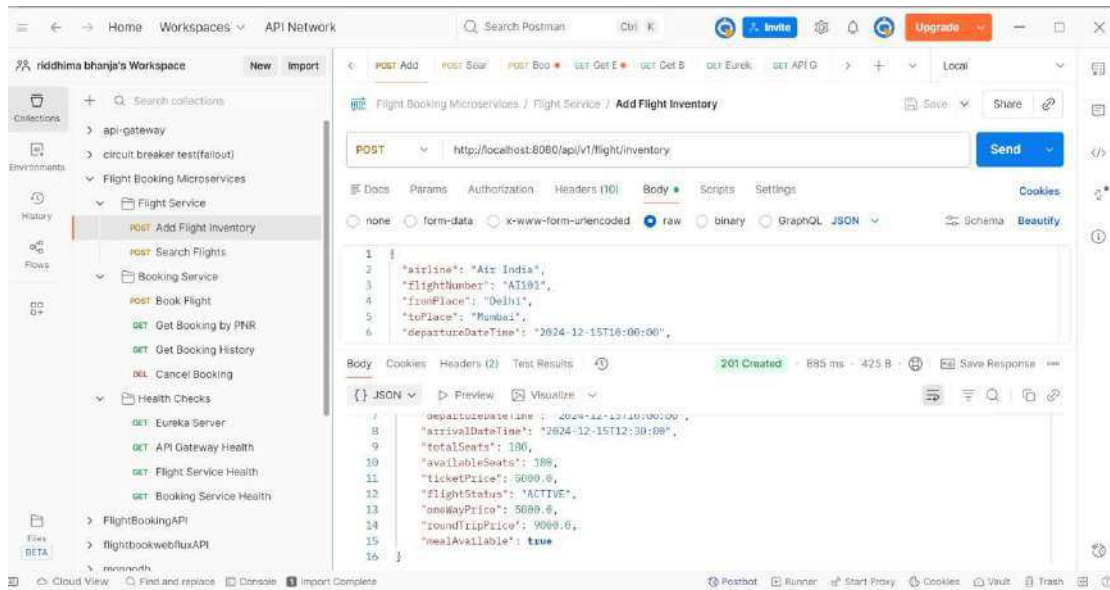
Eureka server:



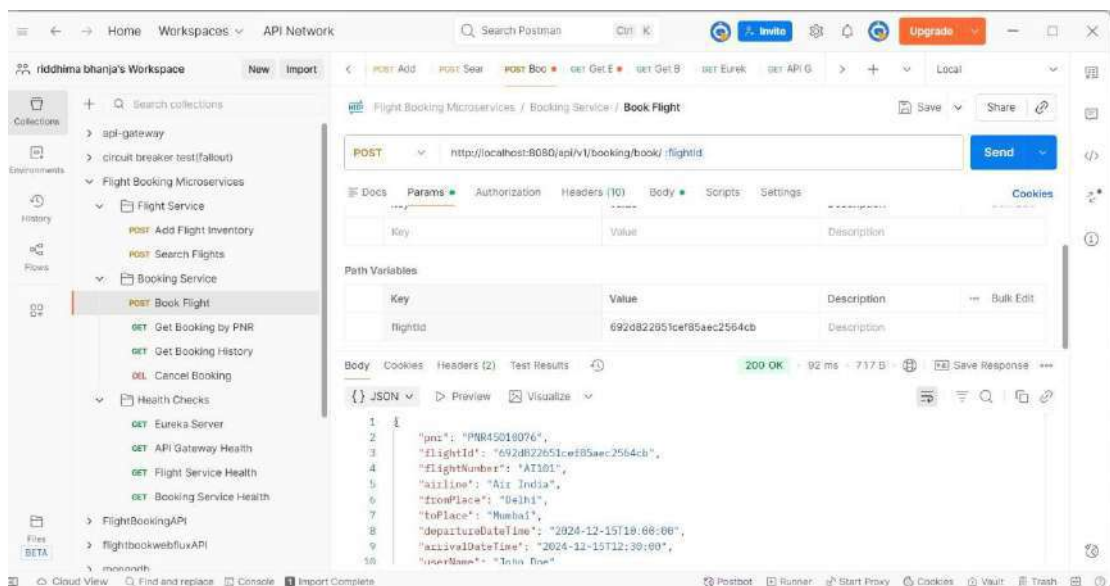
Flight Service Health:



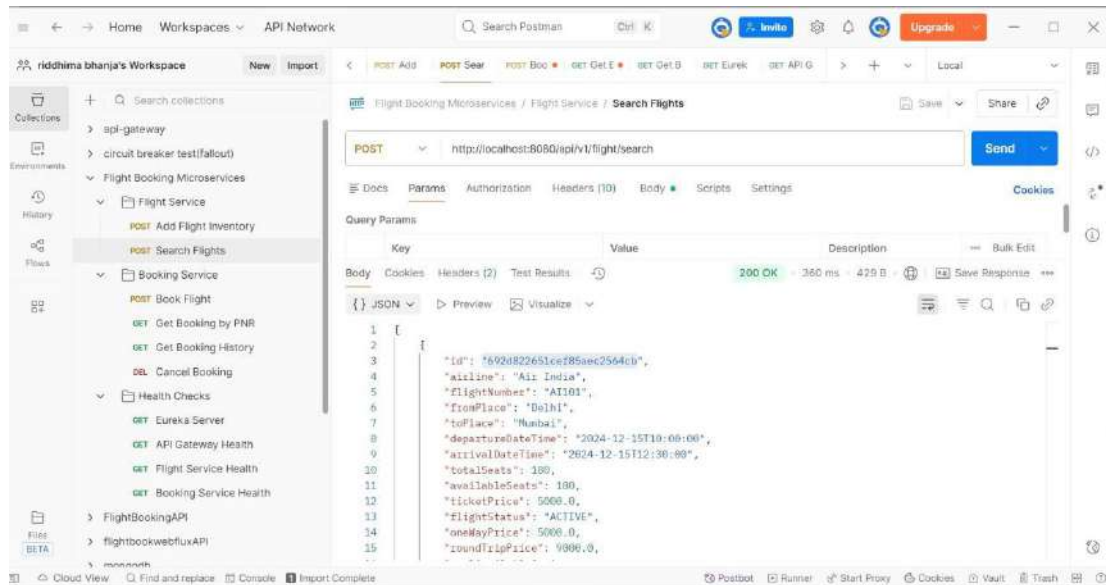
ADD FLIGHT



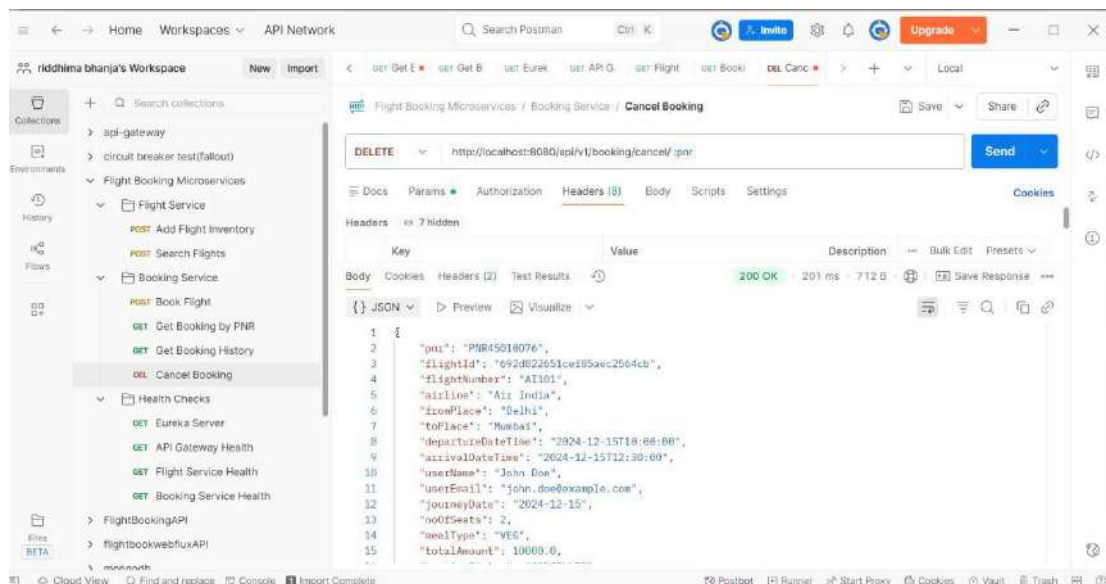
BOOK FLIGHT



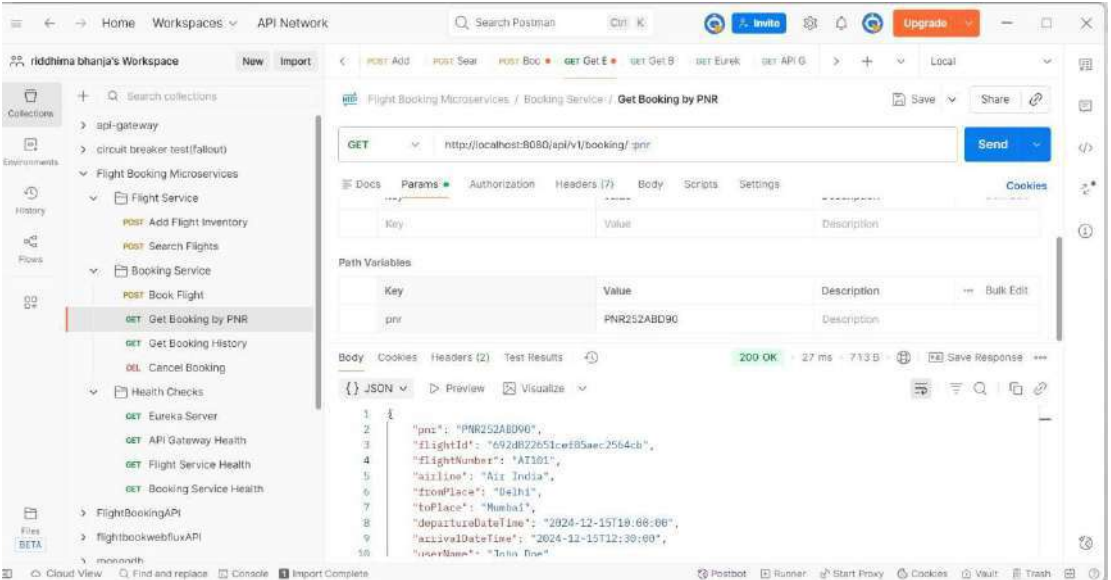
SEARCH FLIGHTS



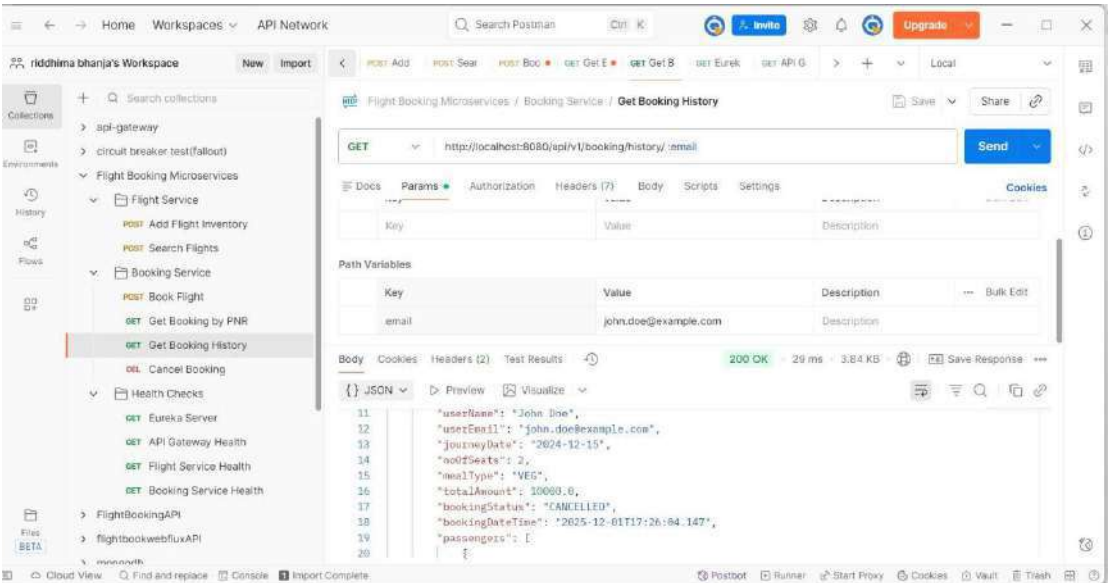
CANCEL BOOKING



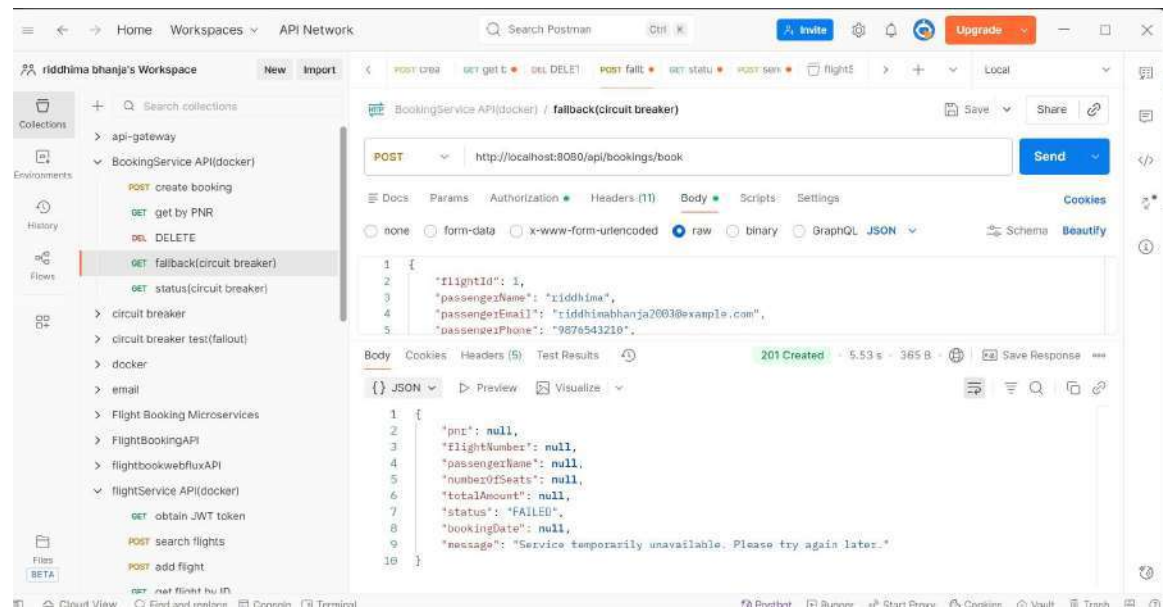
GET BOOKING BY PNR



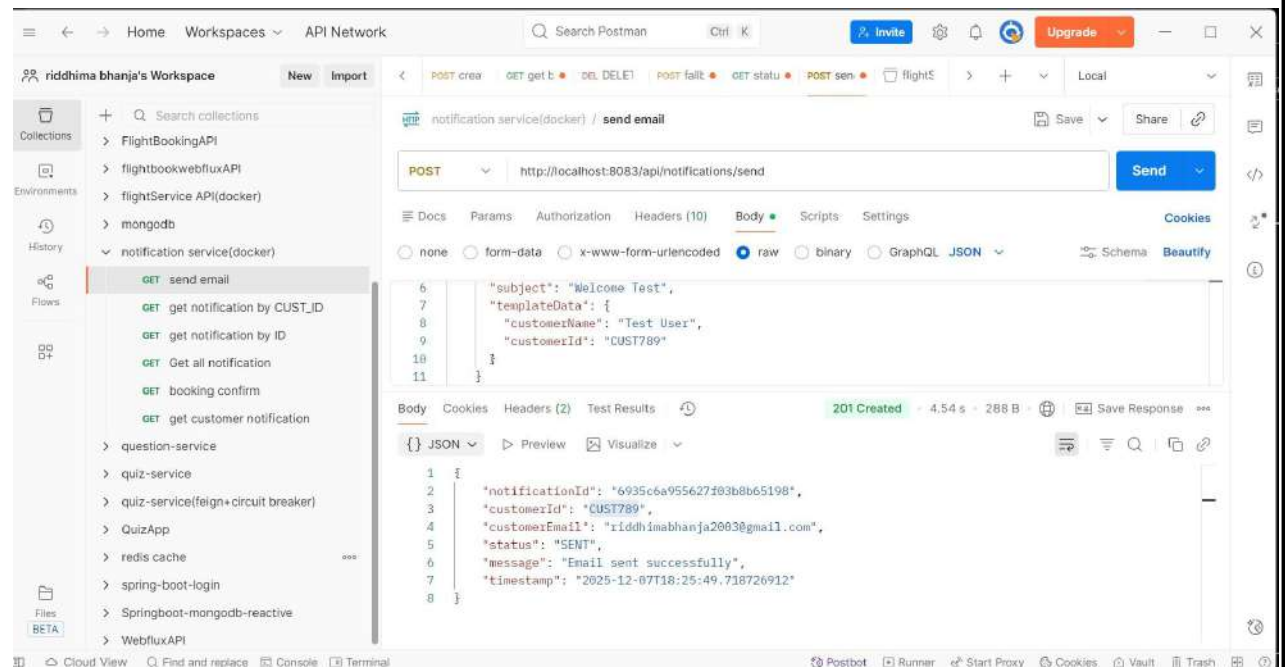
GET BOOKING HISTORY



FALLBACK case



SEND EMAIL



GET BY ID

The screenshot shows the Postman interface with a workspace named 'riddhima bhanja's Workspace'. The left sidebar lists collections and environments. The main panel shows a GET request to 'http://localhost:8083/api/notifications/6935e9a61ee8f9036919f375' with a status of '200 OK'. The response body is a JSON object containing HTML content.

Request URL: `http://localhost:8083/api/notifications/6935e9a61ee8f9036919f375`

Response Status: **200 OK** - 85 ms - 2.51 KB

Response Body (JSON):

```
{  "id": "6935e9a61ee8f9036919f375",  "customerName": "Riddhima Bhanja",  "flightNumber": "AI101",  "status": "SENT",  "createdAt": "2025-12-07T16:21:58.004",  "sentAt": "2025-12-07T16:21:59.659"}
```

BOOKING CONFIRMATION EMAIL

The screenshot shows the Postman interface with a workspace named 'riddhima bhanja's Workspace'. The left sidebar lists collections and environments. The main panel shows a POST request to 'http://localhost:8083/api/notifications/send' with a status of '201 Created'. The response body is a JSON object containing booking confirmation details.

Request URL: `http://localhost:8083/api/notifications/send`

Request Body (JSON):

```
{  "templateName": "booking-confirmation",  "subject": "Flight Booking Confirmation - PNR12345678",  "templatedData": {    "customerName": "riddhima bhanja",    "pnr": "PNR12345678",    "flightNumber": "AI101"  }}
```

Response Status: **201 Created** - 6.01 s - 288 B

Response Body (JSON):

```
{  "notificationId": "6935c6f155627f03b8b65197",  "customerId": "CUST123",  "customerEmail": "riddhimabhanja2003@gmail.com",  "status": "SENT",  "message": "Email sent successfully",  "timestamp": "2025-12-07T18:25:07.687277843"}
```

GET ALL NOTIFICATION

The screenshot shows the Postman interface with a workspace named 'riddhima bhanja's Workspace'. The left sidebar lists collections, environments, history, and flows. The 'notification service(docker)' collection is expanded, showing several endpoints. The selected endpoint is 'GET all notification'. The request is a GET method to 'http://localhost:8083/api/notifications/all'. The response is a 200 OK status with a response time of 117 ms and a body size of 46.5 KB. The response body is a JSON array containing one notification object.

```
GET http://localhost:8083/api/notifications/all
```

Query Params

Key	Value	Description
-----	-------	-------------

Body

```
{  
  "id": "69359bdcba6bb290bcb8712",  
  "customerId": "CUST123",  
  "customerName": "riddhima bhanja",  
  "customerEmail": "riddhimabhanja2003@example.com",  
  "templateName": "booking-confirmation",  
  "subject": "Booking Confirmation",  
  "body": "<!DOCTYPE html><html><head>\n  <meta charset='UTF-8'>\n  <meta name='viewport' content='width=device-width, initial-scale=1.0'>\n  <title>Booking Confirmation</title>\n  <style>\n    body {\n      font-family: Arial,\n      sans-serif;\n      line-height: 1.6;\n      color: #333;\n      max-width: 600px;\n      margin: 0 auto;\n      padding: 20px;\n      \n      .header {\n        background-color: #04CAF50;\n        color: white;\n        padding: 20px;\n        text-align: center;\n        background-color: #f0f0f0;\n      }\n    }\n  </style>\n  <body>\n    <h2>Booking Confirmation</h2>\n    <p>Dear Customer,</p>\n  </body>\n</html>"
```

GET CUSTOMER NOTIFICATION

The screenshot shows the Postman interface with a workspace named 'riddhima bhanja's Workspace'. The left sidebar lists collections, environments, history, and flows. The 'notification service(docker)' collection is expanded, showing several endpoints. The selected endpoint is 'GET customer notification'. The request is a GET method to 'http://localhost:8083/api/notifications/customer/CUST123'. The response is a 200 OK status with a response time of 394 ms and a body size of 31.01 KB. The response body is a JSON object representing a customer notification.

```
GET http://localhost:8083/api/notifications/customer/CUST123
```

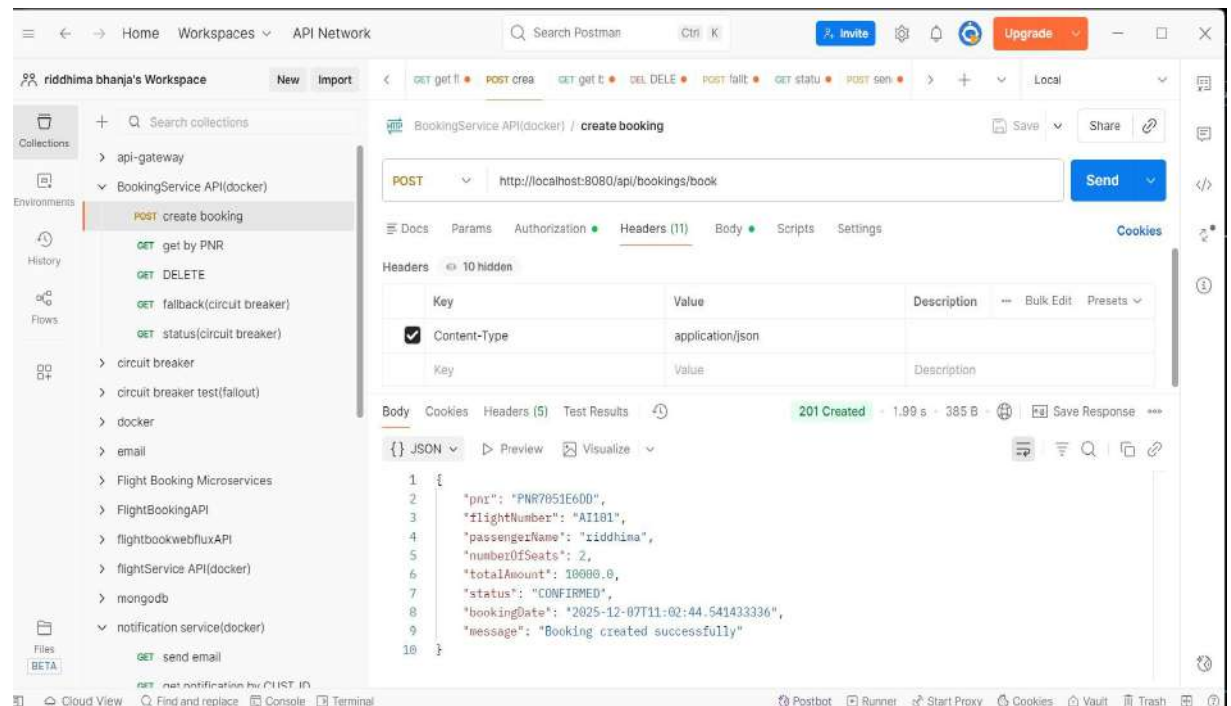
Query Params

Key	Value	Description
-----	-------	-------------

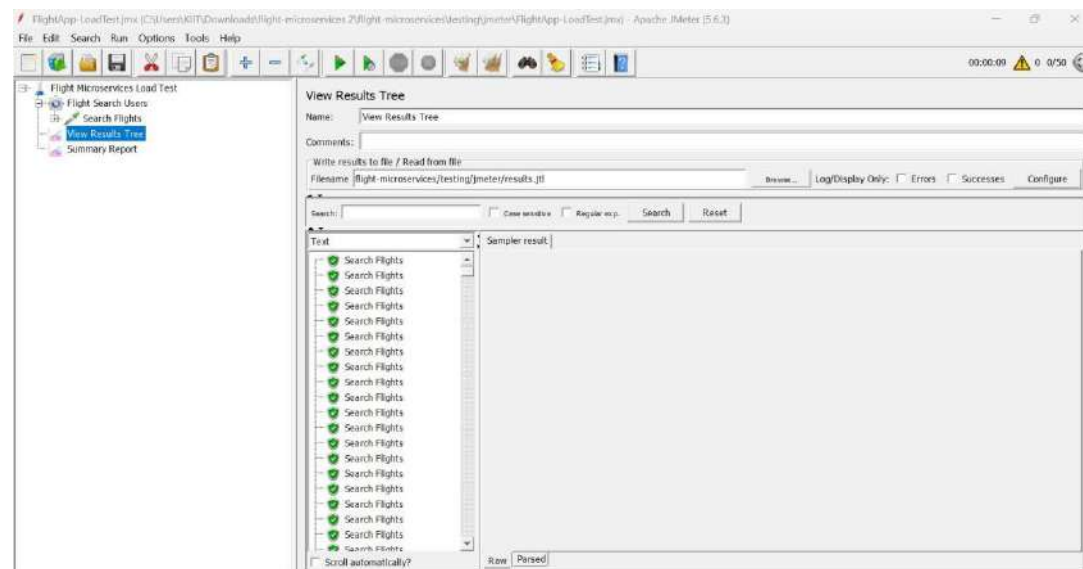
Body

```
{  
  "status": "FAILED",  
  "errorMessage": "Failed to send email",  
  "createdAt": "2025-12-07T15:11:04.1",  
  "sentAt": null,  
  "id": "69359bdcba6bb290bcb8711",  
  "customerId": "CUST123",  
  "customerName": "riddhima bhanja",  
  "customerEmail": "riddhimabhanja2003@example.com",  
  "templateName": "booking-confirmation",  
  "subject": "Booking Confirmation",  
  "body": "<!DOCTYPE html><html><head>\n  <meta charset='UTF-8'>\n  <meta name='viewport' content='width=device-width, initial-scale=1.0'>\n  <title>Booking Confirmation</title>\n  <style>\n    body {\n      font-family: Arial,\n      sans-serif;\n      line-height: 1.6;\n      color: #333;\n      max-width: 600px;\n      margin: 0 auto;\n      padding: 20px;\n      \n      .header {\n        background-color: #04CAF50;\n        color: white;\n        padding: 20px;\n        text-align: center;\n        background-color: #f0f0f0;\n      }\n    }\n  </style>\n  <body>\n    <h2>Booking Confirmation</h2>\n    <p>Dear Customer,</p>\n  </body>\n</html>"
```

CREATE BOOKING



• Jmeter result tree



• Jmeter Summary report

20 Requests

The screenshot shows the Apache JMeter 5.6.3 Summary Report window. The 'Test Plan' tree on the left includes a 'Thread Group' with sub-items: 'search flights', 'add flights', 'getbyID', 'create_booking', 'getbyPNR', 'delete', 'send email', 'booking confirm', and 'Summary Report'. The 'Summary Report' tab is selected, displaying a table with performance metrics for 20 samples.

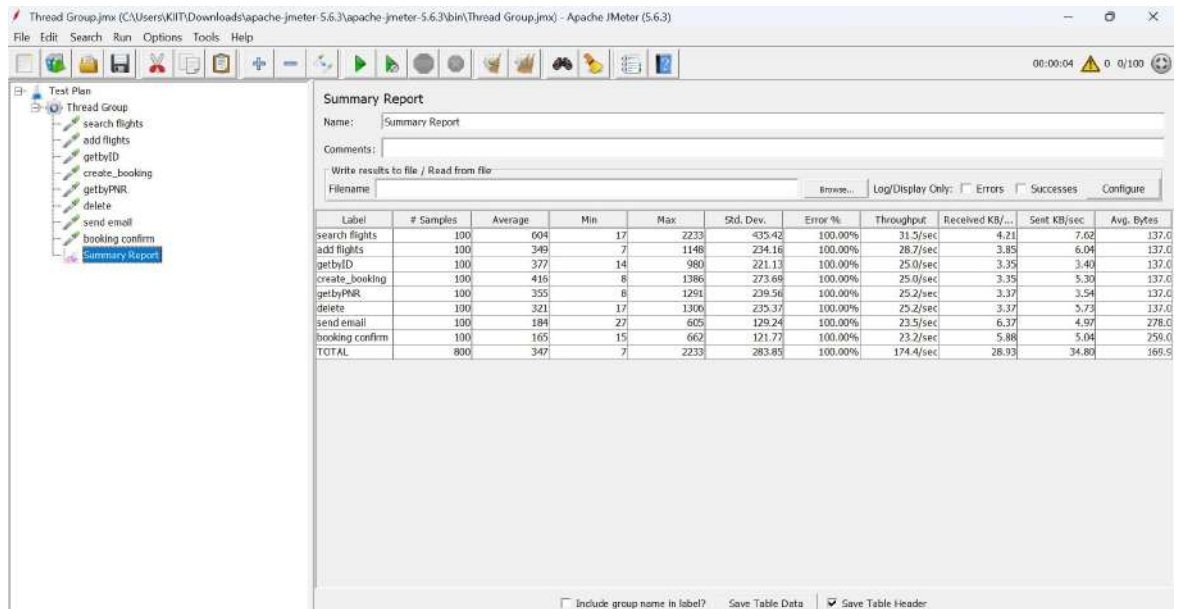
Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
search flights	20	21	0	45	9.10	100.00%	20.5/sec	2.74	4.90	137.0
add flights	20	13	5	38	8.59	100.00%	20.5/sec	2.76	4.32	137.0
getbyID	20	13	5	30	7.25	100.00%	20.1/sec	2.89	2.73	137.0
create_booking	20	12	5	27	5.08	100.00%	20.0/sec	2.68	4.24	137.0
getbyPNR	20	13	4	38	8.59	100.00%	19.6/sec	2.62	2.75	137.0
delete	20	16	4	48	11.23	100.00%	19.5/sec	2.61	4.44	137.0
send email	20	943	461	1401	280.30	100.00%	13.0/sec	3.54	2.76	278.0
booking confirm	20	94	62	133	21.88	100.00%	100.0/sec	25.25	21.04	259.0
TOTAL	160	141	4	1401	320.23	100.00%	97.0/sec	16.10	19.37	169.9

50 Requests

The screenshot shows the Apache JMeter 5.6.3 Summary Report window for 50 requests. The 'Test Plan' tree on the left is identical to the previous screenshot. The 'Summary Report' tab displays a table with performance metrics for 50 samples.

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
search flights	50	119	0	333	73.51	100.00%	38.6/sec	5.17	9.36	137.0
add flights	50	79	4	218	57.14	100.00%	33.4/sec	4.40	7.00	137.0
getbyID	50	84	4	213	64.07	100.00%	32.0/sec	4.40	4.46	137.0
create_booking	50	80	4	196	50.25	100.00%	31.8/sec	4.26	6.75	137.0
getbyPNR	50	83	11	212	58.23	100.00%	30.9/sec	4.14	4.35	137.0
delete	50	87	5	255	55.57	100.00%	30.7/sec	4.11	6.00	137.0
send email	50	115	17	256	53.91	100.00%	29.7/sec	8.00	6.24	278.0
booking confirm	50	108	19	287	62.02	100.00%	29.7/sec	7.51	6.43	259.0
TOTAL	490	95	4	333	61.83	100.00%	226.1/sec	37.51	45.13	169.9

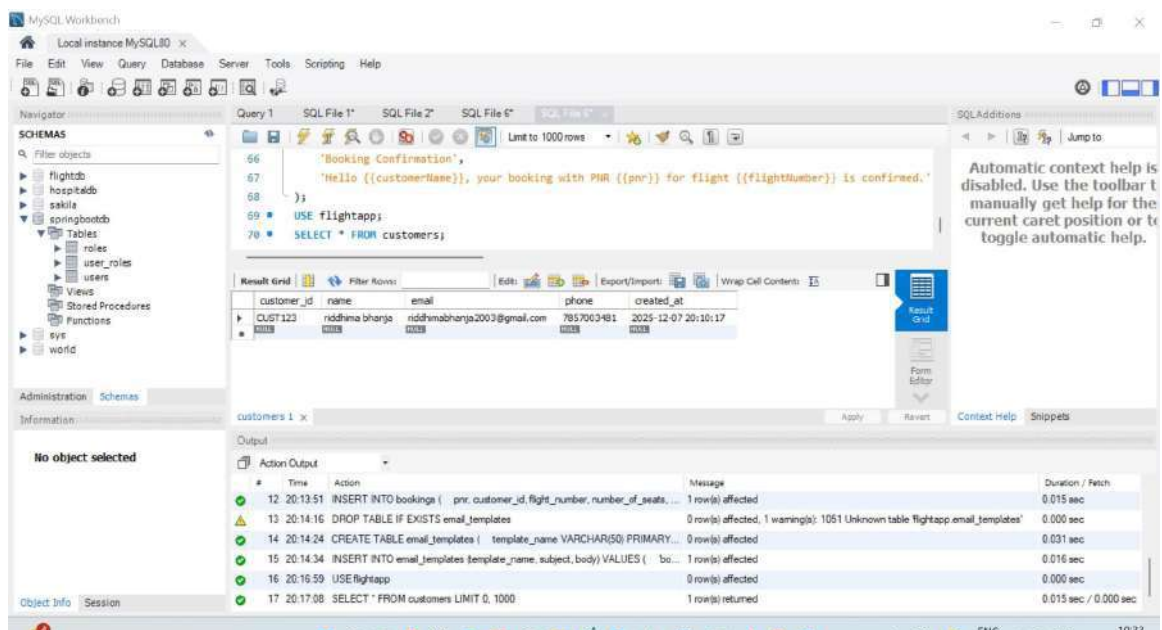
100 Requests



The screenshot shows the Apache JMeter Summary Report for a test plan named 'Thread Group.jmx'. The report displays performance metrics for 100 requests across various test elements. The 'Summary Report' tab is selected, showing a table with columns: Label, # Samples, Average, Min, Max, Std. Dev., Error %, Throughput, Received KB/sec, Sent KB/sec, and Avg. Bytes. The 'TOTAL' row shows 800 samples, an average of 347, and a throughput of 174.4/sec.

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
search flights	100	604	17	2233	435.42	100.00%	31.5/sec	4.21	7.62	137.0
add flights	100	349	7	1148	234.16	100.00%	28.7/sec	3.85	6.04	137.0
getbyID	100	377	14	980	221.13	100.00%	25.0/sec	3.35	3.40	137.0
create_booking	100	416	8	1386	273.69	100.00%	25.0/sec	3.35	5.30	137.0
getbyPNR	100	355	8	1291	239.56	100.00%	25.2/sec	3.37	3.54	137.0
delete	100	321	17	1300	235.37	100.00%	25.2/sec	3.37	5.73	137.0
send email	100	194	27	605	129.24	100.00%	23.5/sec	6.37	4.97	278.0
booking confirm	100	165	15	662	121.77	100.00%	23.2/sec	5.84	5.04	259.0
TOTAL	800	347	7	2233	283.85	100.00%	174.4/sec	28.93	34.80	165.9

MySQL Workbench



The screenshot shows the MySQL Workbench interface. The 'Query Editor' displays a SQL query that inserts a booking confirmation message into the 'bookings' table and selects all records from the 'customers' table. The 'Result Grid' shows the output of the query, displaying columns: customer_id, name, email, phone, and created_at. The 'Output' tab shows the execution log, including the time taken for each statement and the number of rows affected.

```
66 'Booking Confirmation',
67 'Hello {{customerName}}, your booking with PNR {{pnr}} for flight {{flightNumber}} is confirmed.'
68 );
69 USE flightapp;
70 SELECT * FROM customers;
```

customer_id	name	email	phone	created_at
CUST123	niddhima bharja	niddhimabharja2003@gmail.com	7857003481	2025-12-07 20:10:17

#	Time	Action	Message	Duration / Fetch
12	20:13:51	INSERT INTO bookings (pnr, customer_id, flight_number, number_of_seats, ...)	1 row(s) affected	0.015 sec
13	20:14:16	DROP TABLE IF EXISTS email_templates	0 row(s) affected, 1 warning(s): 1051 Unknown table 'flightapp.email_templates'	0.000 sec
14	20:14:24	CREATE TABLE email_templates (template_name VARCHAR(50) PRIMARY...	0 row(s) affected	0.031 sec
15	20:14:34	INSERT INTO email_templates (template_name, subject, body) VALUES ('bo...	1 row(s) affected	0.016 sec
16	20:16:59	USE flightapp	0 row(s) affected	0.000 sec
17	20:17:08	SELECT * FROM customers LIMIT 0, 1000	1 row(s) returned	0.015 sec / 0.000 sec

EUREKA DASHBOARD

