CHUBB®

WEEK-7 ASSIGNMENT

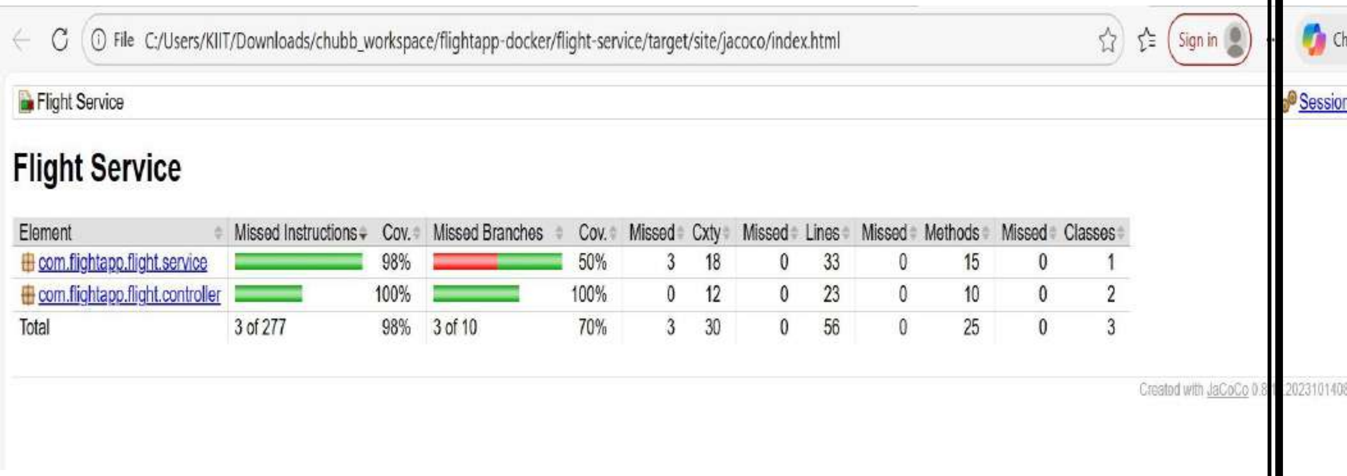
-Riddhima Bhanja
Kalinga Institute of Industrial Technology
Bhubaneswar(Java Track)

INDEX

JACOCO REPORTS

FLIGHT SERVICE:

98% COVERAGE



File C:/Users/KIIT/Downloads/chubb_workspace/flightapp-docker/flight-service/target/site/jacoco/index.html

Flight Service

Sessions

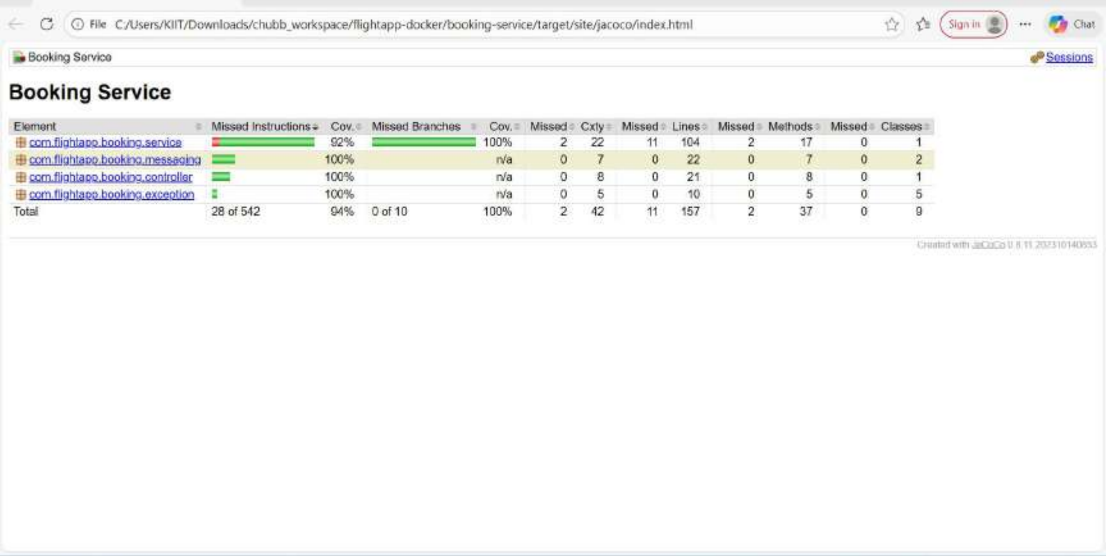
Flight Service

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.flightapp.flight.service		98%		50%	3	18	0	33	0	15	0	1
com.flightapp.flight.controller		100%		100%	0	12	0	23	0	10	0	2
Total	3 of 277	98%	3 of 10	70%	3	30	0	56	0	25	0	3

Created with JaCoCo 0.8 2023101408

BOOKING SERVICE

94% coverage



File C:/Users/KIIT/Downloads/chubb_workspace/flightapp-docker/booking-service/target/site/jacoco/index.html

Booking Service

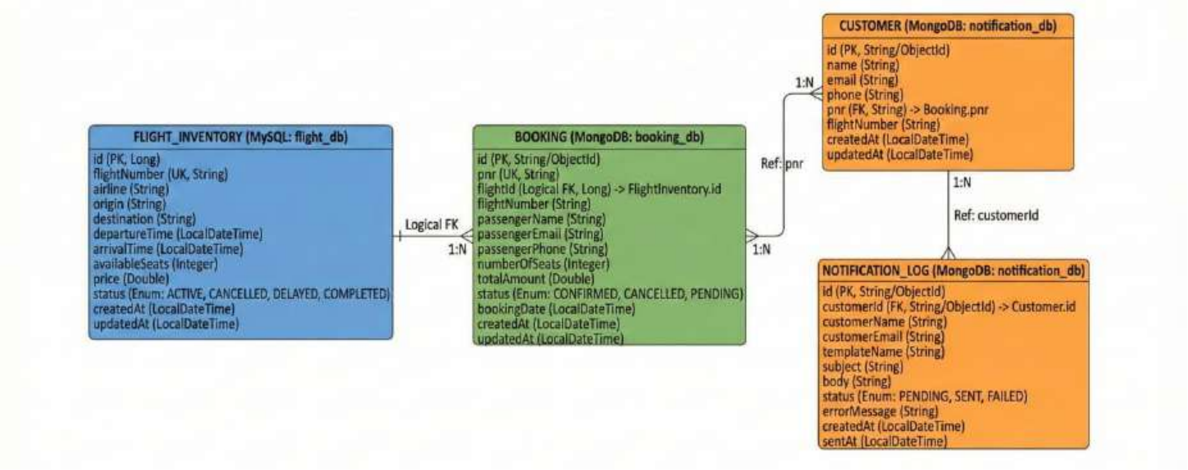
Sessions

Booking Service

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
com.flightapp.booking.service		92%		100%	2	22	11	104	2	17	0	1
com.flightapp.booking.messaging		100%		n/a	0	7	0	22	0	7	0	2
com.flightapp.booking.controller		100%		n/a	0	8	0	21	0	8	0	1
com.flightapp.booking.exception		100%		n/a	0	5	0	10	0	5	0	5
Total	28 of 542	94%	0 of 10	100%	2	42	11	157	2	37	0	9

Created with JaCoCo 0.8.11.202310140853

ER DIAGRAM



FLIGHT_INVENTORY (MySQL: flight_db)

id (PK, Long)
flightNumber (UK, String)
airline (String)
origin (String)
destination (String)
departureTime (LocalDateTime)
arrivalTime (LocalDateTime)
availableSeats (Integer)
price (Double)
status (Enum: ACTIVE, CANCELLED, DELAYED, COMPLETED)
createdAt (LocalDateTime)
updatedAt (LocalDateTime)

BOOKING (MongoDB: booking_db)

id (PK, String/ObjectId)
pnr (UK, String)
flightId (Logical FK, Long) -> FlightInventory.id
flightNumber (String)
passengerName (String)
passengerEmail (String)
passengerPhone (String)
numberOfSeats (Integer)
totalAmount (Double)
status (Enum: CONFIRMED, CANCELLED, PENDING)
bookingDate (LocalDateTime)
createdAt (LocalDateTime)
updatedAt (LocalDateTime)

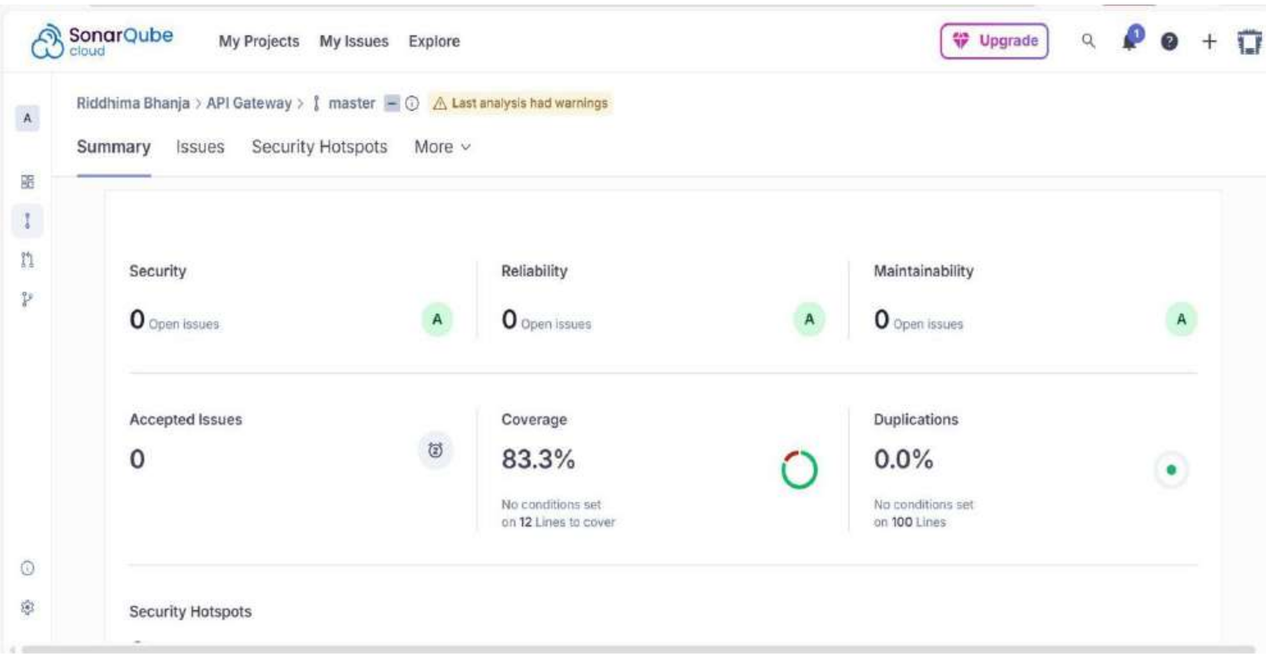
CUSTOMER (MongoDB: notification_db)

id (PK, String/ObjectId)
name (String)
email (String)
phone (String)
pnr (FK, String) -> Booking.pnr
flightNumber (String)
createdAt (LocalDateTime)
updatedAt (LocalDateTime)

NOTIFICATION_LOG (MongoDB: notification_db)

id (PK, String/ObjectId)
customerId (FK, String/ObjectId) -> Customer.id
customerName (String)
customerEmail (String)
templateName (String)
subject (String)
body (String)
status (Enum: PENDING, SENT, FAILED)
errorMessage (String)
createdAt (LocalDateTime)
sentAt (LocalDateTime)

1. SonarQUBE Code Coverage



Riddhima Bhanja > API Gateway > master

⚠ Last analysis had warnings

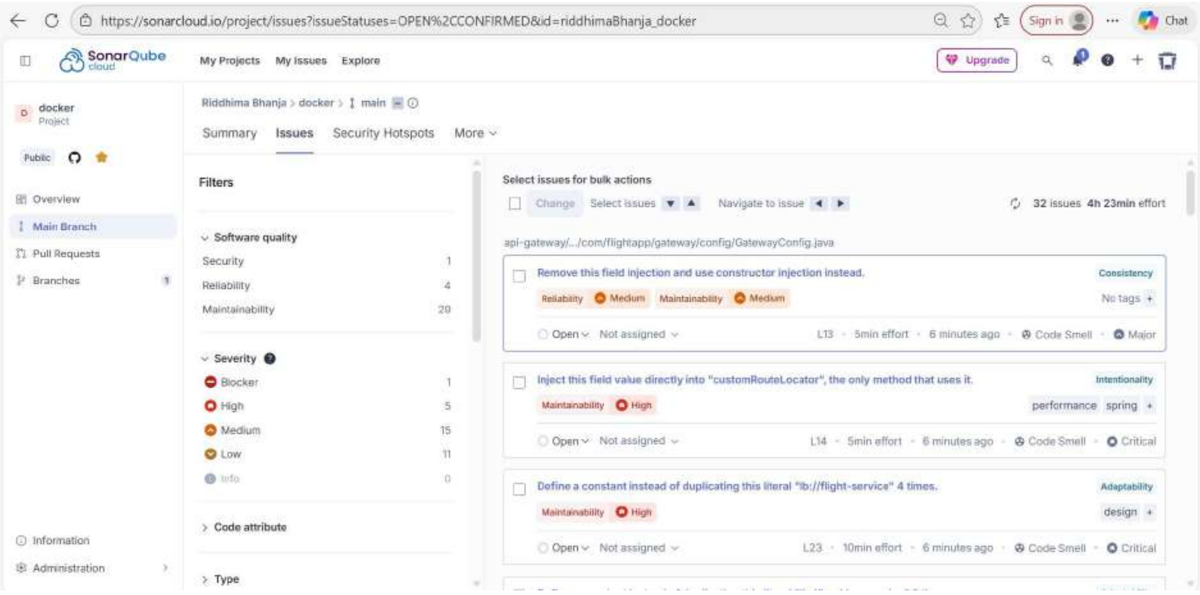
Security	Reliability	Maintainability
0 Open issues A	0 Open issues A	0 Open issues A

Accepted Issues	Coverage	Duplications
0	83.3% No conditions set on 12 Lines to cover	0.0% No conditions set on 100 Lines

Security Hotspots

2. SonarQube Issues

Before fixing:



Filters

Software quality

Security	1
Reliability	4
Maintainability	29

Severity

Blocker	1
High	5
Medium	15
Low	11
Info	0

Code attribute

Type

Select issues for bulk actions

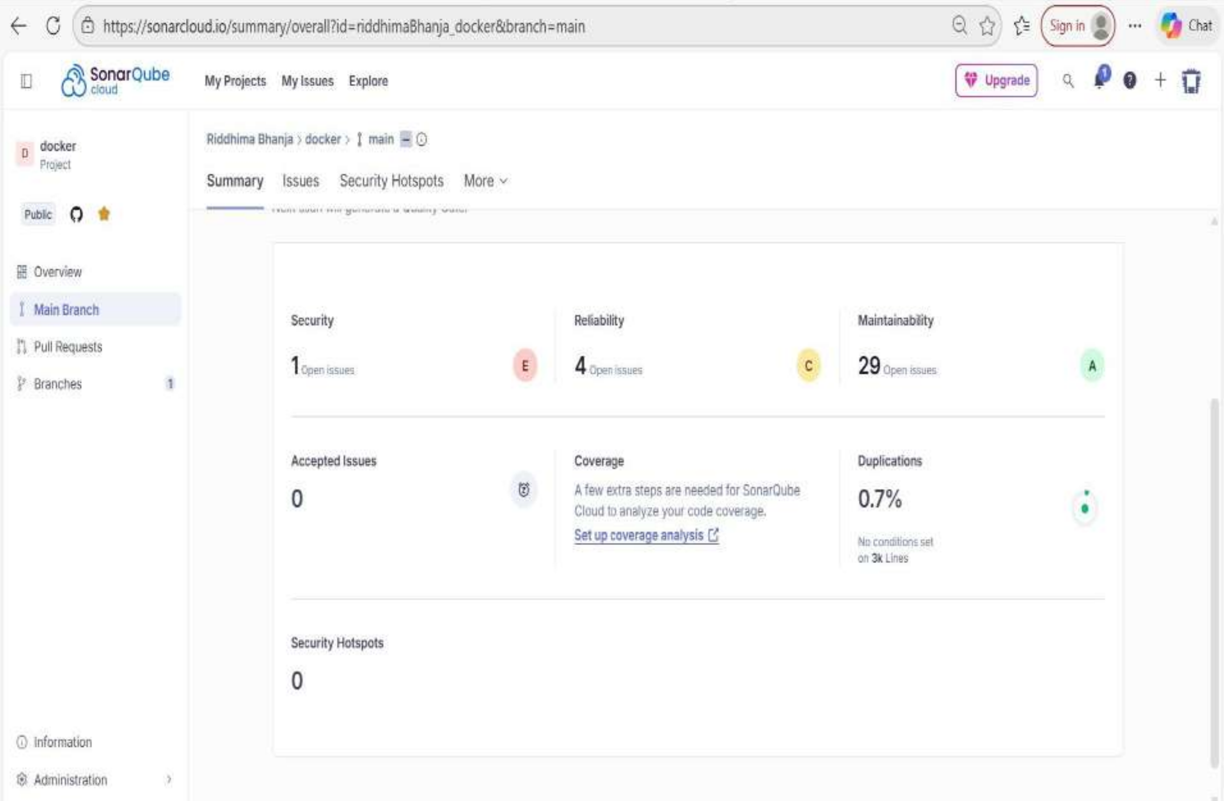
□ Change Select issues Navigate to issue 32 issues 4h 23min effort

api-gateway/.../com/flightapp/gateway/config/GatewayConfig.java

□ Remove this field injection and use constructor injection instead. Consistency
Reliability Medium Maintainability Medium No tags +
Open Not assigned L13 · 5min effort · 6 minutes ago · Code Smell · Major

□ Inject this field value directly into "customRouteLocator", the only method that uses it. Intentionality
Maintainability High performance spring +
Open Not assigned L14 · 5min effort · 6 minutes ago · Code Smell · Critical

□ Define a constant instead of duplicating this literal "lb://flight-service" 4 times. Adaptability
Maintainability High design +
Open Not assigned L23 · 10min effort · 6 minutes ago · Code Smell · Critical



Security
1 Open issues E

Reliability
4 Open issues C

Maintainability
29 Open issues A

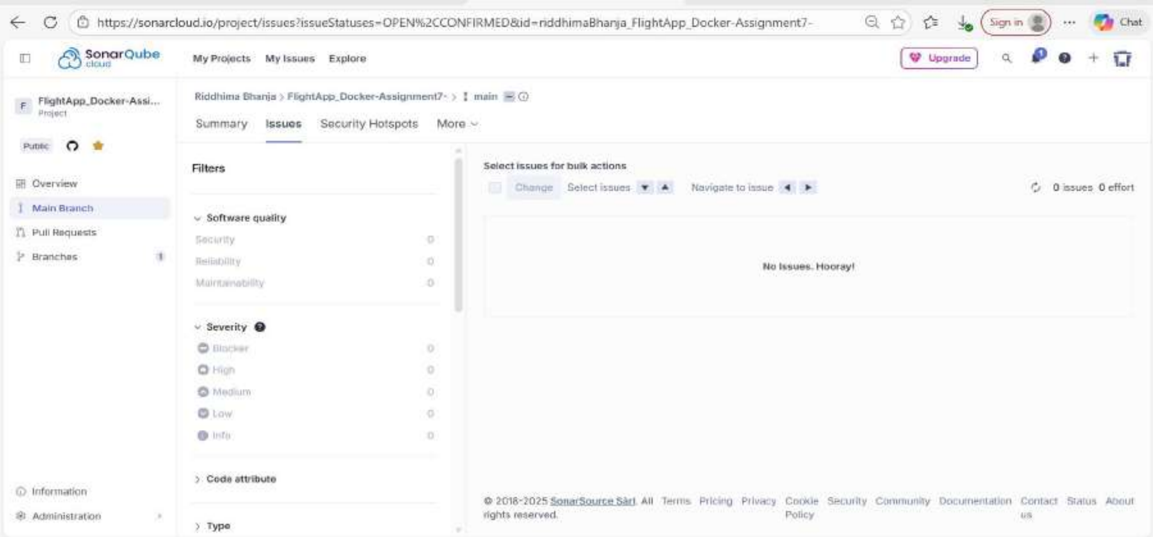
Accepted Issues
0

Coverage
A few extra steps are needed for SonarQube Cloud to analyze your code coverage.
Set up coverage analysis

Duplications
0.7%
No conditions set on 3k Lines

Security Hotspots
0

After fixing:



No Issues. Hooray!

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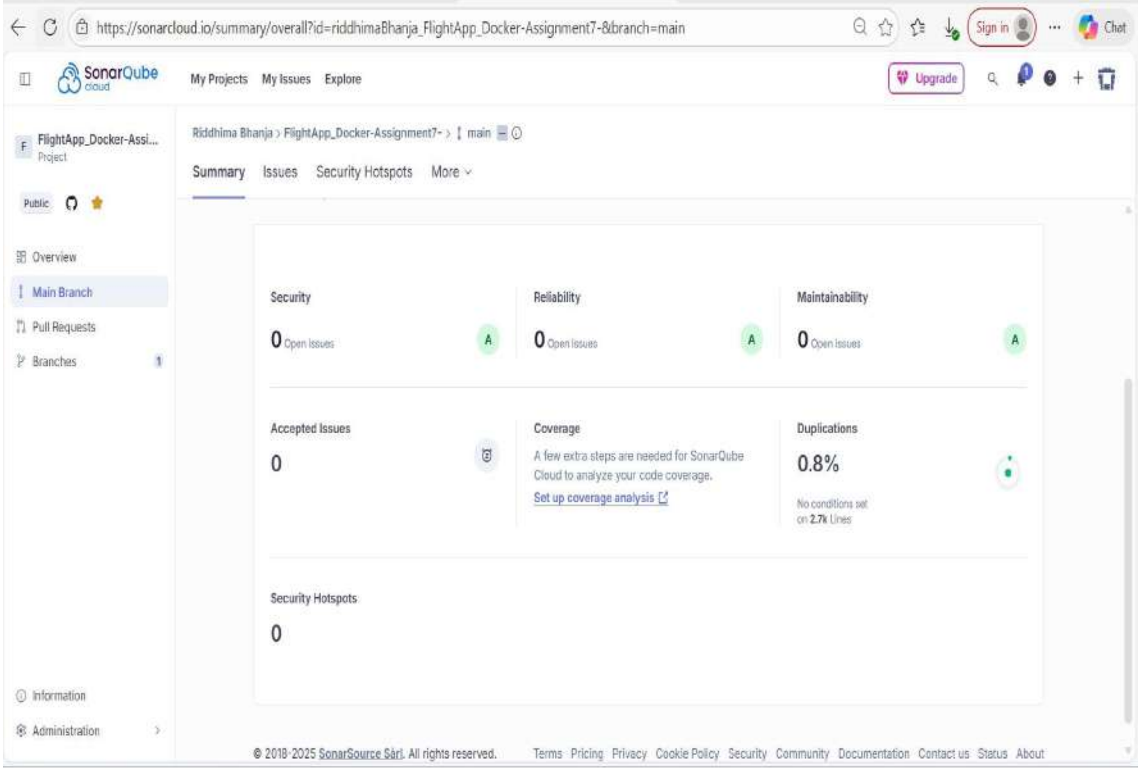

Security 0 Open issues A

Reliability 0 Open issues A

Maintainability 0 Open issues A

Accepted Issues 0

Coverage: A few extra steps are needed for SonarQube Cloud to analyze your code coverage. Set up coverage analysis

Duplications 0.8% No conditions set on 2.7k Lines

Security Hotspots 0

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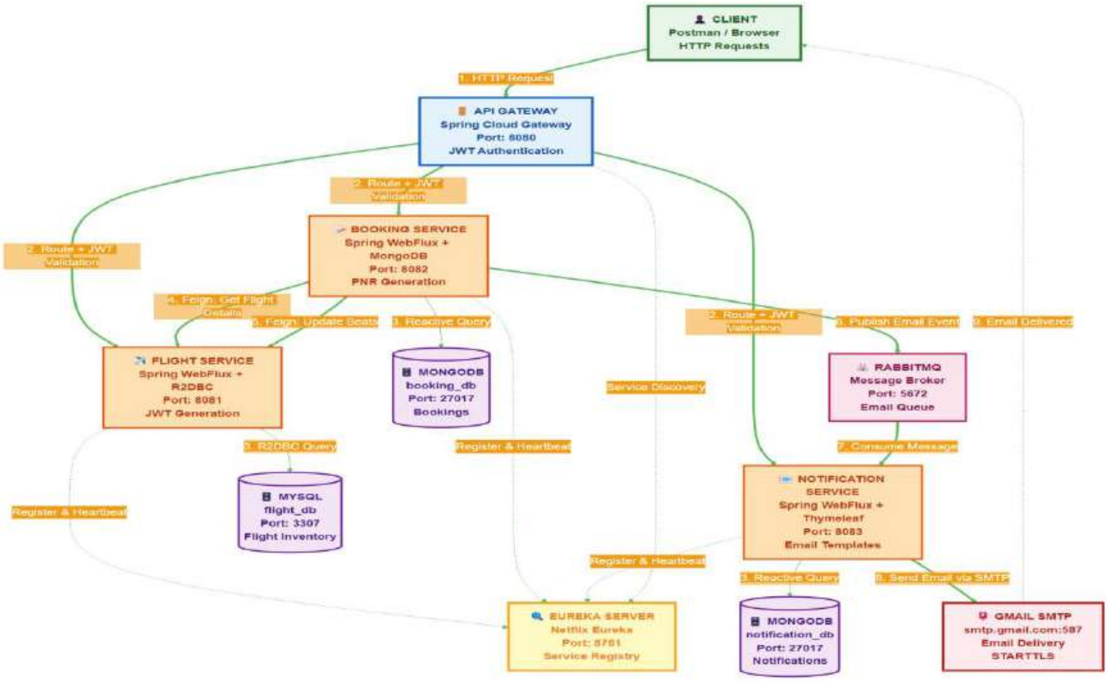
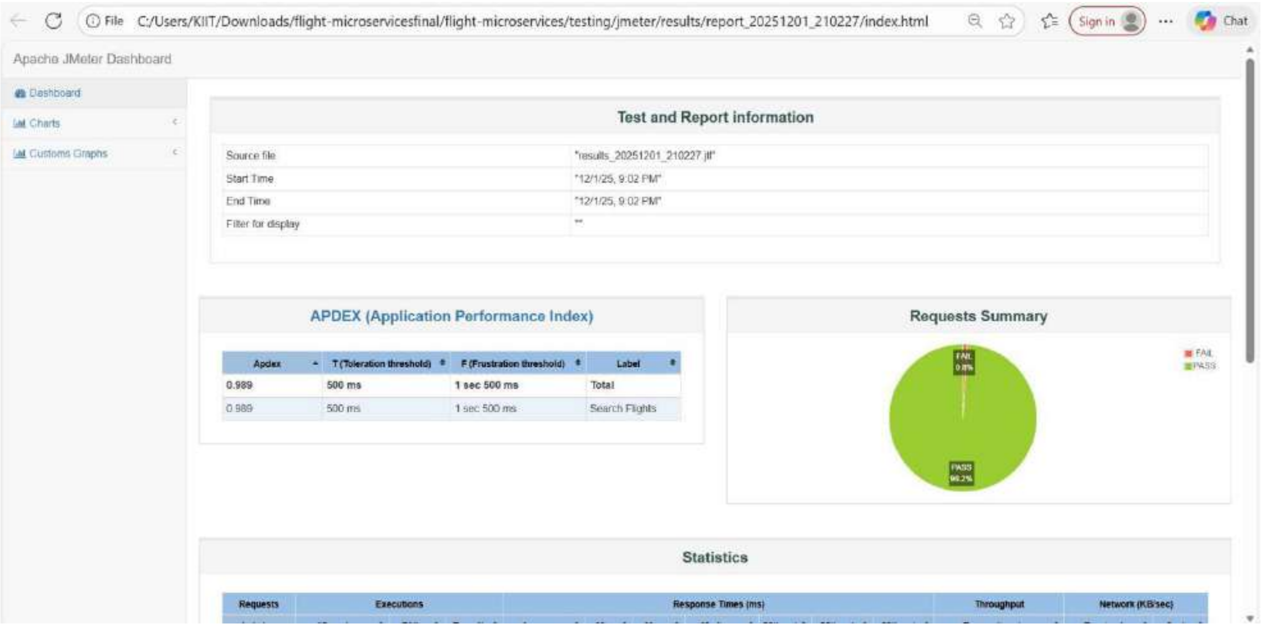
3. System Architecture



4. Jmeter

- Apache Jmeter Dashboard


File
C:/Users/KIIT/Downloads/flight-microservicesfinal/flight-microservices/testing/jmeter/results/report_20251201_210227/index.html
Sign in
Chat
Apache JMeter Dashboard
Dashboard
Charts
Customs Graphs
FAIL 0.8%
PASS 99.2%
FAIL
PASS

Test and Report information

Source file	"results_20251201_210227.jtl"
Start Time	"12/1/25, 9:02 PM"
End Time	"12/1/25, 9:02 PM"
Filter for display	""

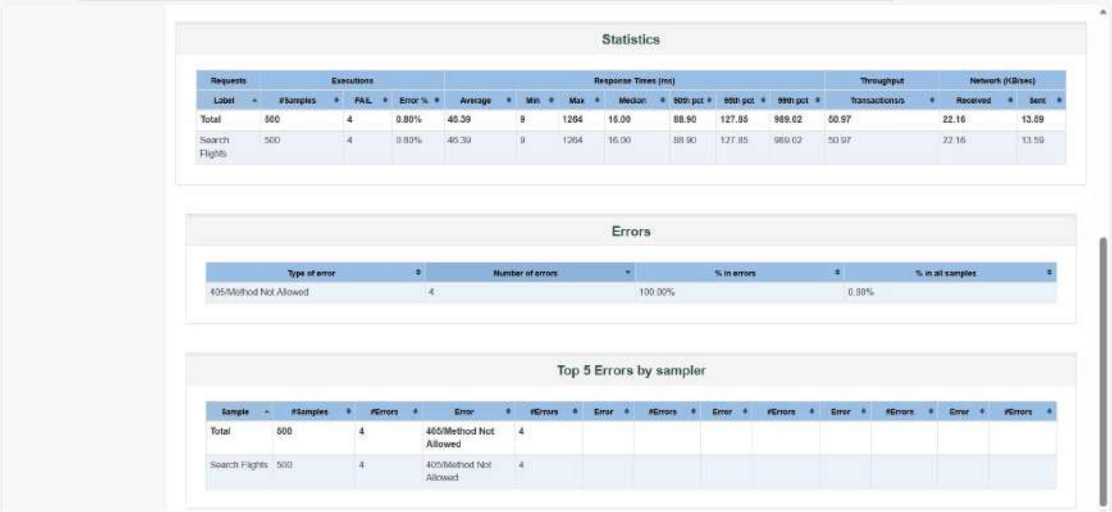
APDEX (Application Performance Index)

Apdex	T (Toleration threshold)	F (Frustration threshold)	Label
0.989	500 ms	1 sec 500 ms	Total
0.989	500 ms	1 sec 500 ms	Search Flights

Requests Summary

Statistics

Requests	Executions	Response Times (ms)	Throughput	Network (KB/sec)



Statistics

Requests	Executions			Response Times (ms)							Throughput	Network (KB/sec)	
Label	#Samples	FAIL	Error %	Average	Min	Max	Median	90th pct	95th pct	99th pct	Transactions/s	Received	Sent
Total	500	4	0.80%	46.39	9	1264	16.00	88.90	127.85	989.02	50.97	22.16	13.59
Search Flights	500	4	0.80%	46.39	9	1264	16.00	88.90	127.85	989.02	50.97	22.16	13.59

Errors

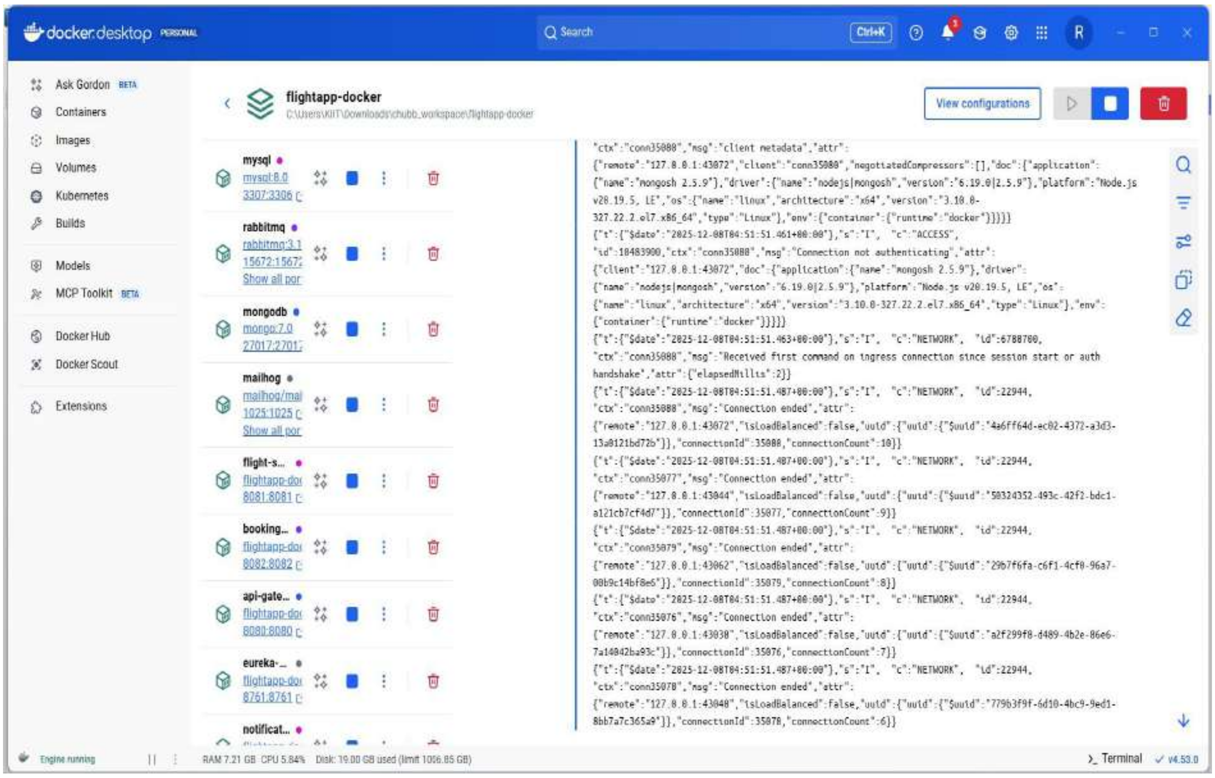
Type of error	Number of errors	% in errors	% in all samples
405/Method Not Allowed	4	100.00%	0.80%

Top 5 Errors by sampler

Sample	#Samples	#Errors	Error	#Errors	Error	#Errors	Error	#Errors	Error	#Errors	Error	#Errors
Total	500	4	405/Method Not Allowed	4								
Search Flights	500	4	405/Method Not Allowed	4								

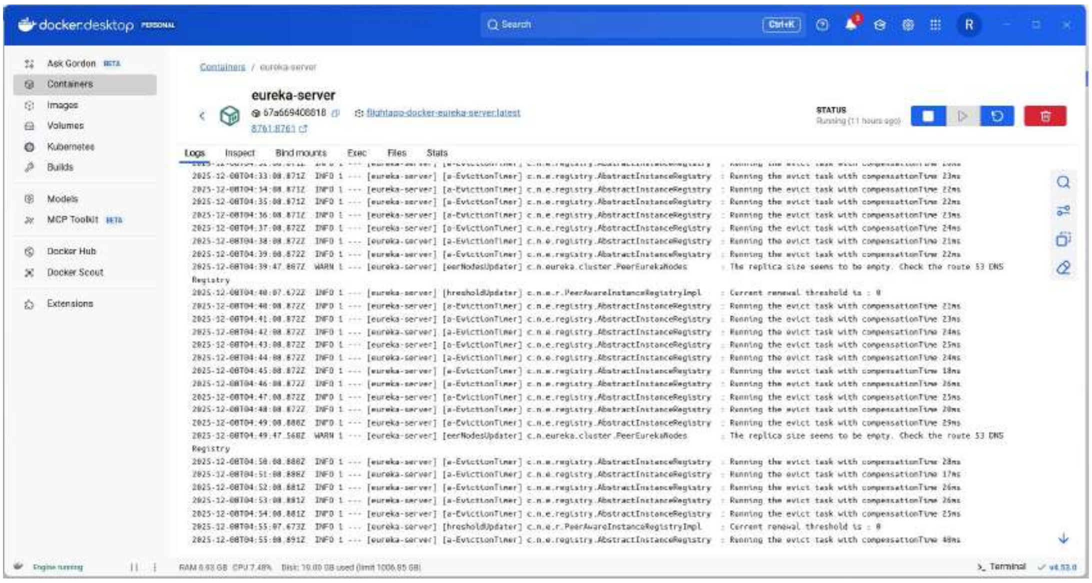
LOGS SCREENSHOTS

DASHBOARD



```
"ctx":"conn35080","msg":"client metadata","attr":
{"remote":"127.0.0.1:43072","client":"conn35080","negotiatedCompressors":[],"doc":{"application":
{"name":"mongosh 2.5.9"},"driver":{"name":"nodejs|mongosh","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"}}}}}
{"t":{"$date":"2025-12-08T04:51:51.461+00:00"},"s":"I",  "c":"ACCESS",
"id":10483900,"ctx":"conn35080","msg":"Connection not authenticating","attr":
{"client":"127.0.0.1:43072","doc":{"application":{"name":"mongosh 2.5.9"},"driver":
{"name":"nodejs|mongosh","version":"6.19.0|2.5.9"},"platform":"Node.js v20.19.5, LE","os":
{"name":"linux","architecture":"x64","version":"3.10.0-327.22.2.el7.x86_64","type":"Linux"},"env":
{"container":{"runtime":"docker"}}}}}
{"t":{"$date":"2025-12-08T04:51:51.463+00:00"},"s":"I",  "c":"NETWORK",  "id":6788700,
"ctx":"conn35080","msg":"Received first command on ingress connection since session start or auth
handshake","attr":{"elapsedMillis":2}}
{"t":{"$date":"2025-12-08T04:51:51.487+00:00"},"s":"I",  "c":"NETWORK",  "id":22944,
"ctx":"conn35080","msg":"Connection ended","attr":
{"remote":"127.0.0.1:43072","isLoadBalanced":false,"uuid":{"uuid":{"$uuid":"4a6ff64d-ec02-4372-a3d3-
13a0121bd72b"}},"connectionId":35080,"connectionCount":10}}
{"t":{"$date":"2025-12-08T04:51:51.487+00:00"},"s":"I",  "c":"NETWORK",  "id":22944,
"ctx":"conn35077","msg":"Connection ended","attr":
{"remote":"127.0.0.1:43044","isLoadBalanced":false,"uuid":{"uuid":{"$uuid":"50324352-493c-42f2-bdc1-
a121cb7cf4d7"}},"connectionId":35077,"connectionCount":9}}
{"t":{"$date":"2025-12-08T04:51:51.487+00:00"},"s":"I",  "c":"NETWORK",  "id":22944,
"ctx":"conn35079","msg":"Connection ended","attr":
{"remote":"127.0.0.1:43062","isLoadBalanced":false,"uuid":{"uuid":{"$uuid":"29b7f6fa-c6f1-4cf0-96a7-
00b9c14bf0e6"}},"connectionId":35079,"connectionCount":8}}
{"t":{"$date":"2025-12-08T04:51:51.487+00:00"},"s":"I",  "c":"NETWORK",  "id":22944,
"ctx":"conn35076","msg":"Connection ended","attr":
{"remote":"127.0.0.1:43038","isLoadBalanced":false,"uuid":{"uuid":{"$uuid":"a2f299f8-d489-4b2e-86e6-
7a14042ba93c"}},"connectionId":35076,"connectionCount":7}}
{"t":{"$date":"2025-12-08T04:51:51.487+00:00"},"s":"I",  "c":"NETWORK",  "id":22944,
"ctx":"conn35078","msg":"Connection ended","attr":
{"remote":"127.0.0.1:43040","isLoadBalanced":false,"uuid":{"uuid":{"$uuid":"779b3f9f-6d10-4bc9-9ed1-
8bb7a7c365a9"}},"connectionId":35078,"connectionCount":6}}
```

EUREKA SERVER LOGS



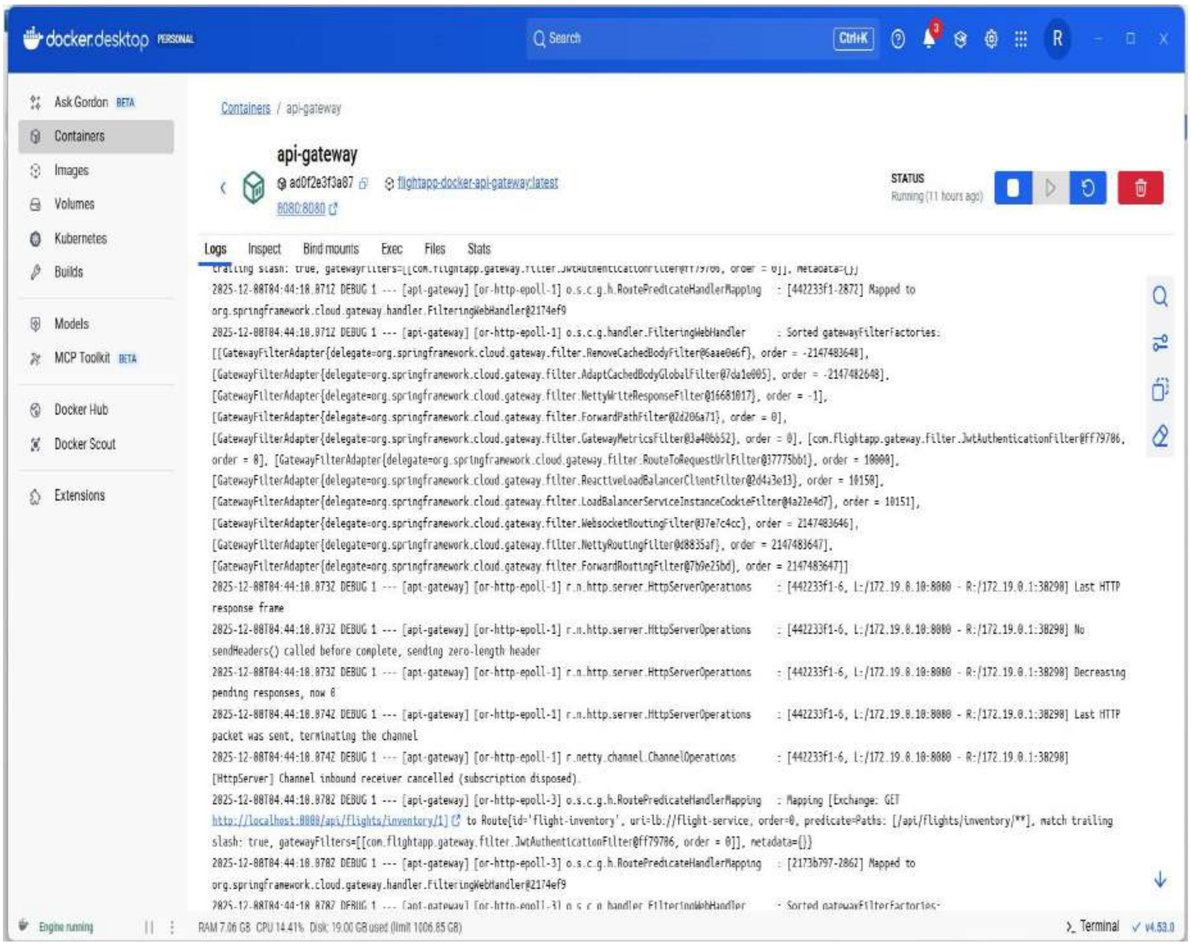
eureka-server
67a669408818
flightapp-docker-eureka-server:latest
8761:8761

STATUS
Running (11 hours ago)

```
2025-12-08T04:33:00.871Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 23ms
2025-12-08T04:34:00.871Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 22ms
2025-12-08T04:35:00.871Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 22ms
2025-12-08T04:36:00.871Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 23ms
2025-12-08T04:37:00.872Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 24ms
2025-12-08T04:38:00.872Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 21ms
2025-12-08T04:39:00.872Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 22ms
2025-12-08T04:39:47.887Z  WARN 1 --- [eureka-server] [eerNodesUpdater] c.n.eureka.cluster.PeerEurekaNodes        : The replica size seems to be empty. Check the route 53 DNS
Registry
2025-12-08T04:40:07.672Z  INFO 1 --- [eureka-server] [hresholdUpdater] c.n.e.r.PeerAwareInstanceRegistryImpl    : Current renewal threshold is : 0
2025-12-08T04:40:00.872Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 22ms
2025-12-08T04:41:00.872Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 23ms
2025-12-08T04:42:00.872Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 24ms
2025-12-08T04:43:00.872Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 25ms
2025-12-08T04:44:00.872Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 24ms
2025-12-08T04:45:00.872Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 18ms
2025-12-08T04:46:00.872Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 26ms
2025-12-08T04:47:00.872Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 25ms
2025-12-08T04:48:00.872Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 20ms
2025-12-08T04:49:00.880Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 29ms
2025-12-08T04:49:47.568Z  WARN 1 --- [eureka-server] [eerNodesUpdater] c.n.eureka.cluster.PeerEurekaNodes        : The replica size seems to be empty. Check the route 53 DNS
Registry
2025-12-08T04:50:00.880Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 28ms
2025-12-08T04:51:00.880Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 17ms
2025-12-08T04:52:00.881Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 26ms
2025-12-08T04:53:00.881Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 26ms
2025-12-08T04:54:00.881Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 25ms
2025-12-08T04:55:07.673Z  INFO 1 --- [eureka-server] [hresholdUpdater] c.n.e.r.PeerAwareInstanceRegistryImpl    : Current renewal threshold is : 0
2025-12-08T04:55:00.891Z  INFO 1 --- [eureka-server] [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry  : Running the evict task with compensationTime 40ms
```

RAM 6.93 GB CPU 7.48% Disk: 19.00 GB used (limit 1006.85 GB)

API GATEWAY



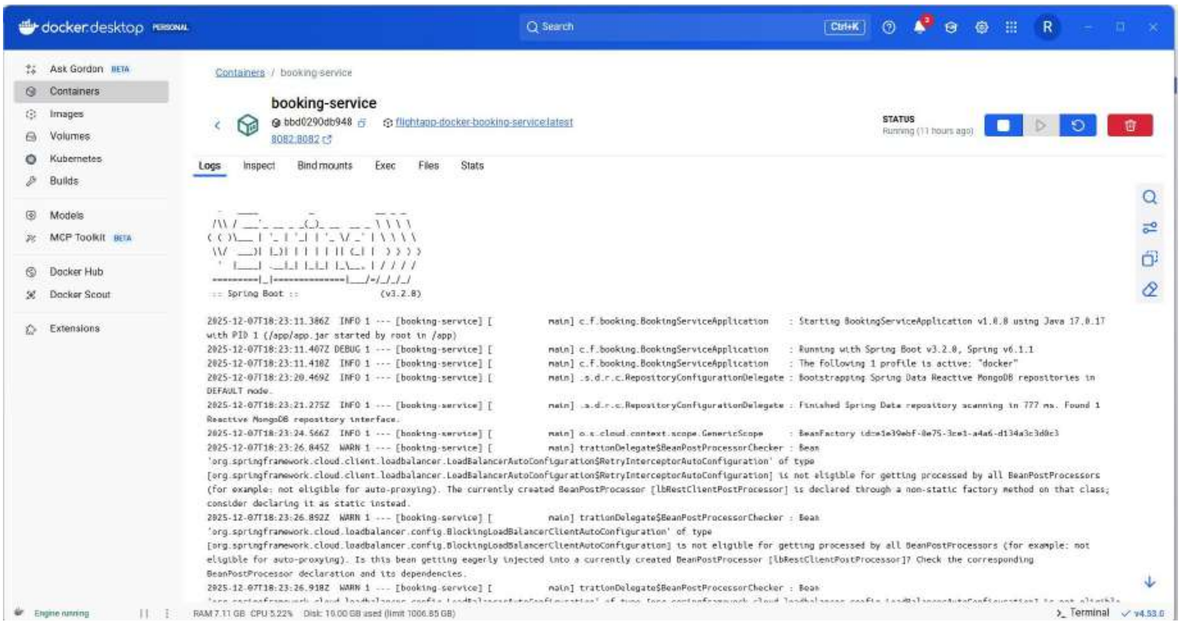
api-gateway
ad0f2e3f3a87
flightapp-docker-api-gateway:latest
8080:8080

STATUS
Running (11 hours ago)

```
trailing slash: true, gatewayFilters=[[com.flightapp.gateway.filter.JwtAuthenticationFilter@ff79786, order = 0]], metadata={}}
2025-12-08T04:44:10.071Z DEBUG 1 --- [api-gateway] [or-http-epoll-1] o.s.c.g.h.RoutePredicateHandlerMapping   : [442233f1-2872] Mapped to
org.springframework.cloud.gateway.handler.FilteringWebHandler@2174ef9
2025-12-08T04:44:10.071Z DEBUG 1 --- [api-gateway] [or-http-epoll-1] o.s.c.g.handler.FilteringWebHandler      : Sorted gatewayFilterFactories:
[[GatewayFilterAdapter{delegate=org.springframework.cloud.gateway.filter.RemoveCachedBodyFilter@6aae0e6f}, order = -2147483648],
[GatewayFilterAdapter{delegate=org.springframework.cloud.gateway.filter.AdaptCachedBodyGlobalFilter@7da1e005}, order = -2147482648],
[GatewayFilterAdapter{delegate=org.springframework.cloud.gateway.filter.NettyWriteResponseFilter@16681017}, order = -1],
[GatewayFilterAdapter{delegate=org.springframework.cloud.gateway.filter.ForwardPathFilter@2d206a71}, order = 0],
[GatewayFilterAdapter{delegate=org.springframework.cloud.gateway.filter.GatewayMetricsFilter@3a40bb52}, order = 0], [com.flightapp.gateway.filter.JwtAuthenticationFilter@ff79786,
order = 0], [GatewayFilterAdapter{delegate=org.springframework.cloud.gateway.filter.RouteToRequestUrlFilter@37775bb1}, order = 10000],
[GatewayFilterAdapter{delegate=org.springframework.cloud.gateway.filter.ReactiveLoadBalancerClientFilter@2d4a3e13}, order = 10150],
[GatewayFilterAdapter{delegate=org.springframework.cloud.gateway.filter.LoadBalancerServiceInstanceCookieFilter@4a22e4d7}, order = 10151],
[GatewayFilterAdapter{delegate=org.springframework.cloud.gateway.filter.WebsocketRoutingFilter@37e7c4cc}, order = 2147483646],
[GatewayFilterAdapter{delegate=org.springframework.cloud.gateway.filter.NettyRoutingFilter@d8835af}, order = 2147483647],
[GatewayFilterAdapter{delegate=org.springframework.cloud.gateway.filter.ForwardRoutingFilter@7b9e25bd}, order = 2147483647]]
2025-12-08T04:44:10.073Z 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
2025-12-08T04:44:10.073Z 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
2025-12-08T04:44:10.073Z 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 0
2025-12-08T04:44:10.074Z 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
2025-12-08T04:44:10.074Z 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).
2025-12-08T04:44:10.078Z 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, predicate=Paths: [/api/flights/inventory/**], match trailing
slash: true, gatewayFilters=[[com.flightapp.gateway.filter.JwtAuthenticationFilter@ff79786, order = 0]], metadata={}}
2025-12-08T04:44:10.078Z DEBUG 1 --- [api-gateway] [or-http-epoll-3] o.s.c.g.h.RoutePredicateHandlerMapping   : [2173b797-2862] Mapped to
org.springframework.cloud.gateway.handler.FilteringWebHandler@2174ef9
2025-12-08T04:44:10.078Z DEBUG 1 --- [api-gateway] [or-http-epoll-3] o.s.c.g.handler.FilteringWebHandler      : Sorted gatewayFilterFactories:
```

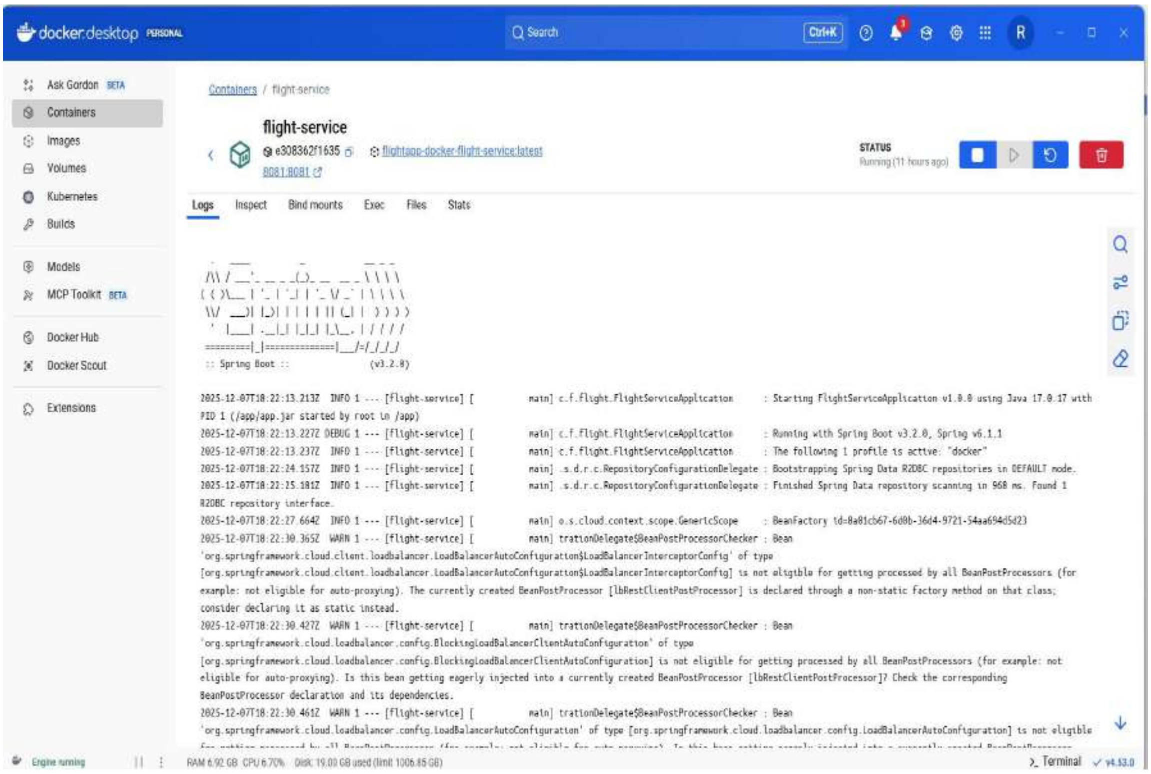
RAM 7.06 GB CPU 14.41% Disk: 19.00 GB used (limit 1006.85 GB)

BOOKING SERVICE LOGS



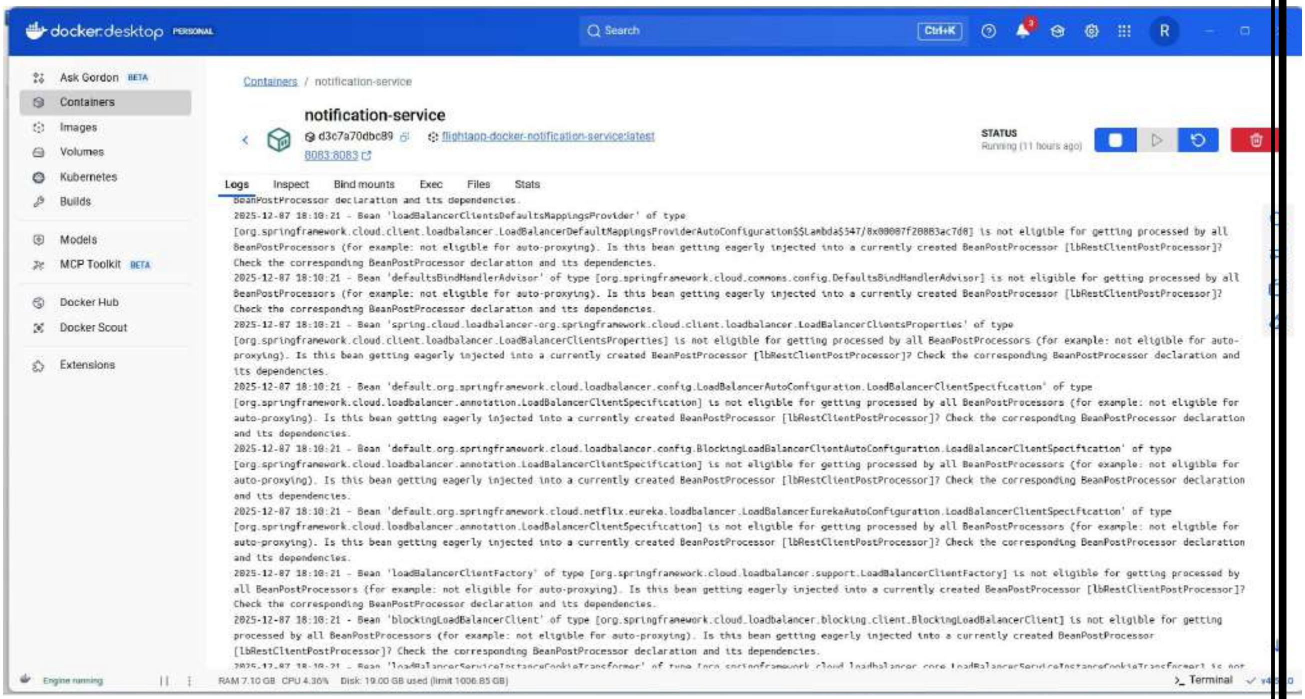
```
  .   ____          _            __ _ _
 /\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v3.2.0)

2025-12-07T18:23:11.386Z  INFO 1 --- [booking-service] [           main] c.f.booking.BookingServiceApplication    : Starting BookingServiceApplication v1.0.0 using Java 17.0.17
with PID 1 (/app/app.jar started by root in /app)
2025-12-07T18:23:11.407Z DEBUG 1 --- [booking-service] [           main] c.f.booking.BookingServiceApplication    : Running with Spring Boot v3.2.0, Spring v6.1.1
2025-12-07T18:23:11.410Z  INFO 1 --- [booking-service] [           main] c.f.booking.BookingServiceApplication    : The following 1 profile is active: "docker"
2025-12-07T18:23:20.469Z  INFO 1 --- [booking-service] [           main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data Reactive MongoDB repositories in
DEFAULT mode.
2025-12-07T18:23:21.275Z  INFO 1 --- [booking-service] [           main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 777 ms. Found 1
Reactive MongoDB repository interface.
2025-12-07T18:23:24.566Z  INFO 1 --- [booking-service] [           main] o.s.cloud.context.scope.GenericScope     : BeanFactory id=e1e39ebf-0e75-3ce1-a4a6-d134a3c3d0c3
2025-12-07T18:23:26.845Z  WARN 1 --- [booking-service] [           main] trationDelegate$BeanPostProcessorChecker : Bean
'org.springframework.cloud.client.loadbalancer.LoadBalancerAutoConfiguration$RetryInterceptorAutoConfiguration' of type
[org.springframework.cloud.client.loadbalancer.LoadBalancerAutoConfiguration$RetryInterceptorAutoConfiguration] is not eligible for getting processed by all BeanPostProcessors
(for example: not eligible for auto-proxying). The currently created BeanPostProcessor [lbRestClientPostProcessor] is declared through a non-static factory method on that class;
consider declaring it as static instead.
2025-12-07T18:23:26.892Z  WARN 1 --- [booking-service] [           main] trationDelegate$BeanPostProcessorChecker : Bean
'org.springframework.cloud.loadbalancer.config.BlockingLoadBalancerClientAutoConfiguration' of type
[org.springframework.cloud.loadbalancer.config.BlockingLoadBalancerClientAutoConfiguration] is not eligible for getting processed by all BeanPostProcessors (for example: not
eligible for auto-proxying). Is this bean getting eagerly injected into a currently created BeanPostProcessor [lbRestClientPostProcessor]? Check the corresponding
BeanPostProcessor declaration and its dependencies.
2025-12-07T18:23:26.918Z  WARN 1 --- [booking-service] [           main] trationDelegate$BeanPostProcessorChecker : Bean
```

FLIGHT SERVICE LOGS



```
  .   ____          _            __ _ _
 /\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v3.2.0)

2025-12-07T18:22:13.213Z  INFO 1 --- [flight-service] [           main] c.f.flight.FlightServiceApplication      : Starting FlightServiceApplication v1.0.0 using Java 17.0.17 with
PID 1 (/app/app.jar started by root in /app)
2025-12-07T18:22:13.227Z DEBUG 1 --- [flight-service] [           main] c.f.flight.FlightServiceApplication      : Running with Spring Boot v3.2.0, Spring v6.1.1
2025-12-07T18:22:13.237Z  INFO 1 --- [flight-service] [           main] c.f.flight.FlightServiceApplication      : The following 1 profile is active: "docker"
2025-12-07T18:22:24.157Z  INFO 1 --- [flight-service] [           main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data R2DBC repositories in DEFAULT mode.
2025-12-07T18:22:25.181Z  INFO 1 --- [flight-service] [           main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 968 ms. Found 1
R2DBC repository interface.
2025-12-07T18:22:27.664Z  INFO 1 --- [flight-service] [           main] o.s.cloud.context.scope.GenericScope     : BeanFactory id=8a81cb67-6d0b-36d4-9721-54aa694d5d23
2025-12-07T18:22:30.365Z  WARN 1 --- [flight-service] [           main] trationDelegate$BeanPostProcessorChecker : Bean
'org.springframework.cloud.client.loadbalancer.LoadBalancerAutoConfiguration$LoadBalancerInterceptorConfig' of type
[org.springframework.cloud.client.loadbalancer.LoadBalancerAutoConfiguration$LoadBalancerInterceptorConfig] is not eligible for getting processed by all BeanPostProcessors (for
example: not eligible for auto-proxying). The currently created BeanPostProcessor [lbRestClientPostProcessor] is declared through a non-static factory method on that class;
consider declaring it as static instead.
2025-12-07T18:22:30.427Z  WARN 1 --- [flight-service] [           main] trationDelegate$BeanPostProcessorChecker : Bean
'org.springframework.cloud.loadbalancer.config.BlockingLoadBalancerClientAutoConfiguration' of type
[org.springframework.cloud.loadbalancer.config.BlockingLoadBalancerClientAutoConfiguration] is not eligible for getting processed by all BeanPostProcessors (for example: not
eligible for auto-proxying). Is this bean getting eagerly injected into a currently created BeanPostProcessor [lbRestClientPostProcessor]? Check the corresponding
BeanPostProcessor declaration and its dependencies.
2025-12-07T18:22:30.461Z  WARN 1 --- [flight-service] [           main] trationDelegate$BeanPostProcessorChecker : Bean
'org.springframework.cloud.loadbalancer.config.LoadBalancerAutoConfiguration' of type [org.springframework.cloud.loadbalancer.config.LoadBalancerAutoConfiguration] is not eligible
```

NOTIFICATION SERVICE LOGS



notification-service

d3c7a70dbc89 flightapp-docker-notification-service:latest

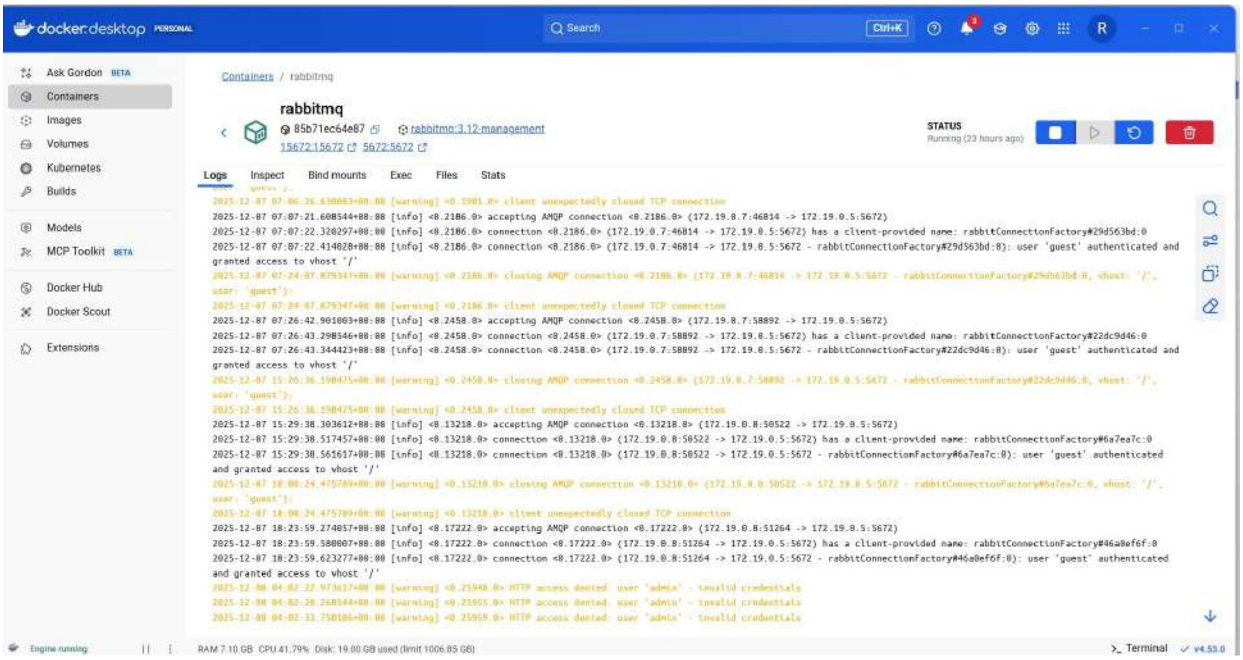
8083:8083

STATUS
Running (11 hours ago)

```
BeanPostProcessor declaration and its dependencies.
2025-12-07 18:10:21 - Bean 'loadBalancerClientsDefaultsMappingsProvider' of type
[org.springframework.cloud.client.loadbalancer.LoadBalancerDefaultMappingsProviderAutoConfiguration$$Lambda$547/0x00007f20083ac7d0] is not eligible for getting processed by all
BeanPostProcessors (for example: not eligible for auto-proxying). Is this bean getting eagerly injected into a currently created BeanPostProcessor [lbRestClientPostProcessor]?
Check the corresponding BeanPostProcessor declaration and its dependencies.
2025-12-07 18:10:21 - Bean 'defaultsBindHandlerAdvisor' of type [org.springframework.cloud.commons.config.DefaultsBindHandlerAdvisor] is not eligible for getting processed by all
BeanPostProcessors (for example: not eligible for auto-proxying). Is this bean getting eagerly injected into a currently created BeanPostProcessor [lbRestClientPostProcessor]?
Check the corresponding BeanPostProcessor declaration and its dependencies.
2025-12-07 18:10:21 - Bean 'spring.cloud.loadbalancer-org.springframework.cloud.client.loadbalancer.LoadBalancerClientsProperties' of type
[org.springframework.cloud.client.loadbalancer.LoadBalancerClientsProperties] is not eligible for getting processed by all BeanPostProcessors (for example: not eligible for auto-
proxying). Is this bean getting eagerly injected into a currently created BeanPostProcessor [lbRestClientPostProcessor]? Check the corresponding BeanPostProcessor declaration and
its dependencies.
2025-12-07 18:10:21 - Bean 'default.org.springframework.cloud.loadbalancer.config.LoadBalancerAutoConfiguration.LoadBalancerClientSpecification' of type
[org.springframework.cloud.loadbalancer.annotation.LoadBalancerClientSpecification] is not eligible for getting processed by all BeanPostProcessors (for example: not eligible for
auto-proxying). Is this bean getting eagerly injected into a currently created BeanPostProcessor [lbRestClientPostProcessor]? Check the corresponding BeanPostProcessor declaration
and its dependencies.
2025-12-07 18:10:21 - Bean 'default.org.springframework.cloud.loadbalancer.config.BlockingLoadBalancerClientAutoConfiguration.LoadBalancerClientSpecification' of type
[org.springframework.cloud.loadbalancer.annotation.LoadBalancerClientSpecification] is not eligible for getting processed by all BeanPostProcessors (for example: not eligible for
auto-proxying). Is this bean getting eagerly injected into a currently created BeanPostProcessor [lbRestClientPostProcessor]? Check the corresponding BeanPostProcessor declaration
and its dependencies.
2025-12-07 18:10:21 - Bean 'default.org.springframework.cloud.netflix.eureka.loadbalancer.LoadBalancerEurekaAutoConfiguration.LoadBalancerClientSpecification' of type
[org.springframework.cloud.loadbalancer.annotation.LoadBalancerClientSpecification] is not eligible for getting processed by all BeanPostProcessors (for example: not eligible for
auto-proxying). Is this bean getting eagerly injected into a currently created BeanPostProcessor [lbRestClientPostProcessor]? Check the corresponding BeanPostProcessor declaration
and its dependencies.
2025-12-07 18:10:21 - Bean 'loadBalancerClientFactory' of type [org.springframework.cloud.loadbalancer.support.LoadBalancerClientFactory] is not eligible for getting processed by
all BeanPostProcessors (for example: not eligible for auto-proxying). Is this bean getting eagerly injected into a currently created BeanPostProcessor [lbRestClientPostProcessor]?
Check the corresponding BeanPostProcessor declaration and its dependencies.
2025-12-07 18:10:21 - Bean 'blockingLoadBalancerClient' of type [org.springframework.cloud.loadbalancer.blocking.client.BlockingLoadBalancerClient] is not eligible for getting
processed by all BeanPostProcessors (for example: not eligible for auto-proxying). Is this bean getting eagerly injected into a currently created BeanPostProcessor
[lbRestClientPostProcessor]? Check the corresponding BeanPostProcessor declaration and its dependencies.
2025-12-07 18:10:21 - Bean 'loadBalancerServiceInstanceCookieTransformer' of type [org.springframework.cloud.loadbalancer.core.LoadBalancerServiceInstanceCookieTransformer] is not
```

RAM 7.10 GB CPU 4.30% Disk: 19.00 GB used (limit 1006.85 GB)

RabbitMQ logs



rabbitmq

85b71ec64e87 rabbitmq:3.12-management

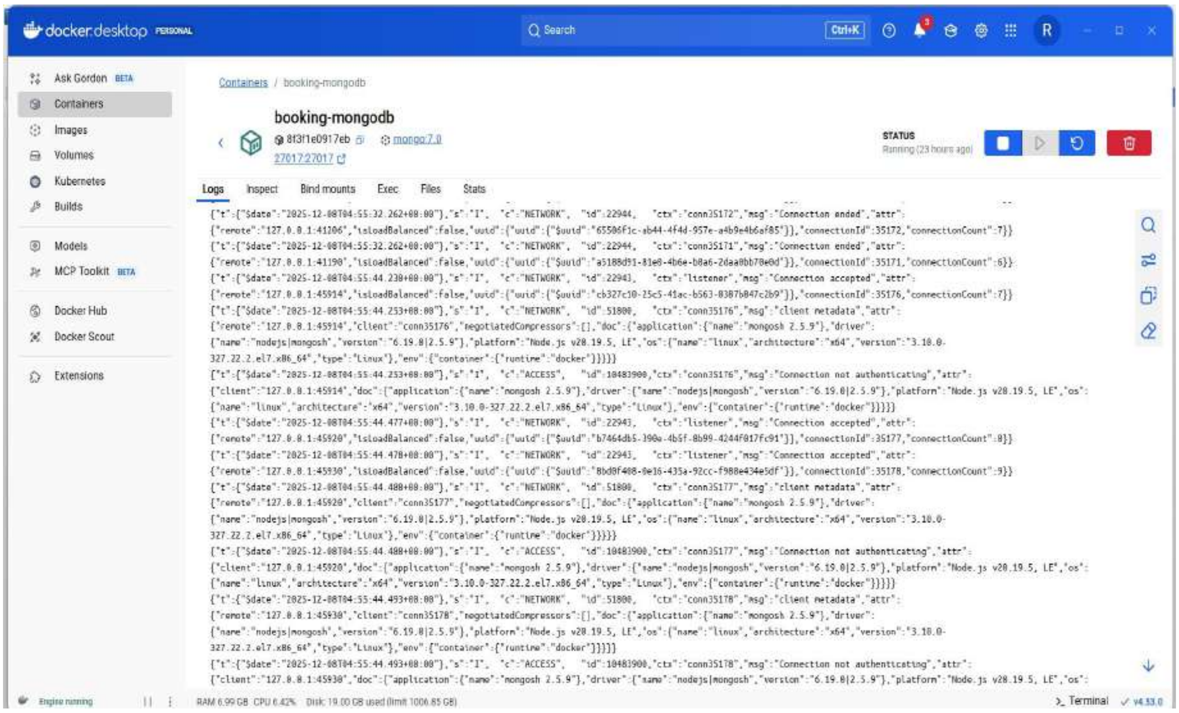
15672:15672 5672:5672

STATUS
Running (23 hours ago)

```
2025-12-07 07:06:26.630083+00:00 [warning] <0.1991.0> client unexpectedly closed TCP connection
2025-12-07 07:07:21.608544+00:00 [info] <0.2186.0> accepting AMQP connection <0.2186.0> (172.19.0.7:46814 -> 172.19.0.5:5672)
2025-12-07 07:07:22.320297+00:00 [info] <0.2186.0> connection <0.2186.0> (172.19.0.7:46814 -> 172.19.0.5:5672) has a client-provided name: rabbitConnectionFactory#29d563bd:0
2025-12-07 07:07:22.414028+00:00 [info] <0.2186.0> connection <0.2186.0> (172.19.0.7:46814 -> 172.19.0.5:5672 - rabbitConnectionFactory#29d563bd:0): user 'guest' authenticated and
granted access to vhost '/'
2025-12-07 07:24:07.079347+00:00 [warning] <0.2186.0> closing AMQP connection <0.2186.0> (172.19.0.7:46814 -> 172.19.0.5:5672 - rabbitConnectionFactory#29d563bd:0, vhost: '/',
user: 'guest'):
2025-12-07 07:24:07.079347+00:00 [warning] <0.2186.0> client unexpectedly closed TCP connection
2025-12-07 07:26:42.901003+00:00 [info] <0.2458.0> accepting AMQP connection <0.2458.0> (172.19.0.7:58892 -> 172.19.0.5:5672)
2025-12-07 07:26:43.298546+00:00 [info] <0.2458.0> connection <0.2458.0> (172.19.0.7:58892 -> 172.19.0.5:5672) has a client-provided name: rabbitConnectionFactory#22dc9d46:0
2025-12-07 07:26:43.344423+00:00 [info] <0.2458.0> connection <0.2458.0> (172.19.0.7:58892 -> 172.19.0.5:5672 - rabbitConnectionFactory#22dc9d46:0): user 'guest' authenticated and
granted access to vhost '/'
2025-12-07 15:26:36.190475+00:00 [warning] <0.2458.0> closing AMQP connection <0.2458.0> (172.19.0.7:58892 -> 172.19.0.5:5672 - rabbitConnectionFactory#22dc9d46:0, vhost: '/',
user: 'guest'):
2025-12-07 15:26:36.190475+00:00 [warning] <0.2458.0> client unexpectedly closed TCP connection
2025-12-07 15:29:38.303612+00:00 [info] <0.13218.0> accepting AMQP connection <0.13218.0> (172.19.0.8:50522 -> 172.19.0.5:5672)
2025-12-07 15:29:38.517457+00:00 [info] <0.13218.0> connection <0.13218.0> (172.19.0.8:50522 -> 172.19.0.5:5672) has a client-provided name: rabbitConnectionFactory#6a7ea7c:0
2025-12-07 15:29:38.561617+00:00 [info] <0.13218.0> connection <0.13218.0> (172.19.0.8:50522 -> 172.19.0.5:5672 - rabbitConnectionFactory#6a7ea7c:0): user 'guest' authenticated
and granted access to vhost '/'
2025-12-07 18:08:24.475789+00:00 [warning] <0.13218.0> closing AMQP connection <0.13218.0> (172.19.0.8:50522 -> 172.19.0.5:5672 - rabbitConnectionFactory#6a7ea7c:0, vhost: '/',
user: 'guest'):
2025-12-07 18:08:24.475789+00:00 [warning] <0.13218.0> client unexpectedly closed TCP connection
2025-12-07 18:23:59.274057+00:00 [info] <0.17222.0> accepting AMQP connection <0.17222.0> (172.19.0.8:51264 -> 172.19.0.5:5672)
2025-12-07 18:23:59.580607+00:00 [info] <0.17222.0> connection <0.17222.0> (172.19.0.8:51264 -> 172.19.0.5:5672) has a client-provided name: rabbitConnectionFactory#46a0ef6f:0
2025-12-07 18:23:59.623277+00:00 [info] <0.17222.0> connection <0.17222.0> (172.19.0.8:51264 -> 172.19.0.5:5672 - rabbitConnectionFactory#46a0ef6f:0): user 'guest' authenticated
and granted access to vhost '/'
2025-12-08 04:02:22.973617+00:00 [warning] <0.25948.0> HTTP access denied: user 'admin' - invalid credentials
2025-12-08 04:02:28.268544+00:00 [warning] <0.25955.0> HTTP access denied: user 'admin' - invalid credentials
2025-12-08 04:02:33.750186+00:00 [warning] <0.25959.0> HTTP access denied: user 'admin' - invalid credentials
```

RAM 7.10 GB CPU 41.79% Disk: 19.00 GB used (limit 1006.85 GB)

Mongodb logs



booking-mongodb

8f3f1e0917eb mongo:7.0

27017:27017

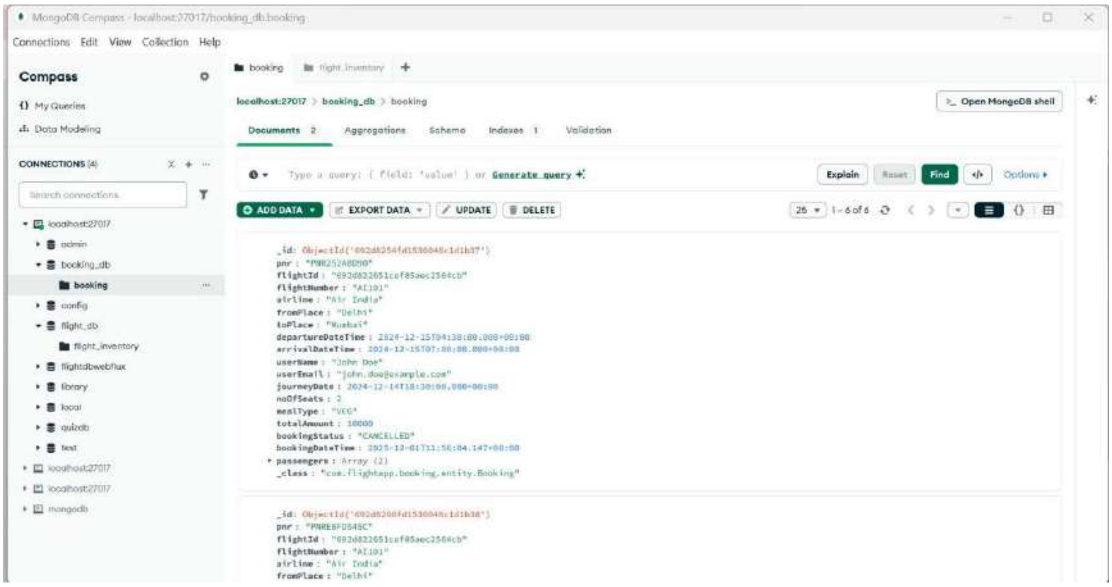
STATUS Running (23 hours ago)

```
{"t":{"$date":"2025-12-08T04:55:32.262+00:00"},"s":"I",  "c":"NETWORK",  "id":22944,   "ctx":"conn35172","msg":"Connection ended","attr":
{"remote":"127.0.0.1:41206","isLoadBalanced":false,"uuid":{"uuid":{"$uuid":"65506f1c-ab44-4f4d-957e-a4b9e4b6af85"}},"connectionId":35172,"connectionCount":7}}
{"t":{"$date":"2025-12-08T04:55:32.262+00:00"},"s":"I",  "c":"NETWORK",  "id":22944,   "ctx":"conn35171","msg":"Connection ended","attr":
{"remote":"127.0.0.1:41190","isLoadBalanced":false,"uuid":{"uuid":{"$uuid":"a5188d91-81e0-4b6e-b8a6-2daa0bb70e0d"}},"connectionId":35171,"connectionCount":6}}
{"t":{"$date":"2025-12-08T04:55:44.230+00:00"},"s":"I",  "c":"NETWORK",  "id":22943,   "ctx":"listener","msg":"Connection accepted","attr":
{"remote":"127.0.0.1:45914","isLoadBalanced":false,"uuid":{"uuid":{"$uuid":"cb327c10-25c5-41ac-b563-0387b047c2b9"}},"connectionId":35176,"connectionCount":7}}
{"t":{"$date":"2025-12-08T04:55:44.253+00:00"},"s":"I",  "c":"NETWORK",  "id":51800,   "ctx":"conn35176","msg":"client metadata","attr":
{"remote":"127.0.0.1:45914","client":"conn35176","negotiatedCompressors":[],"doc":{"application":{"name":"mongosh 2.5.9"},"driver":
{"name":"nodejs|mongosh","version":"6.19.0|2.5.9"},"platform":"Node.js v20.19.5, LE","os":{"name":"linux","architecture":"x64","version":"3.10.0-
327.22.2.el7.x86_64","type":"Linux"},"env":{"container":{"runtime":"docker"}}}}}
{"t":{"$date":"2025-12-08T04:55:44.253+00:00"},"s":"I",  "c":"ACCESS",   "id":10483900,"ctx":"conn35176","msg":"Connection not authenticating","attr":
{"client":"127.0.0.1:45914","doc":{"application":{"name":"mongosh 2.5.9"},"driver":{"name":"nodejs|mongosh","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"}}}}}
{"t":{"$date":"2025-12-08T04:55:44.477+00:00"},"s":"I",  "c":"NETWORK",  "id":22943,   "ctx":"listener","msg":"Connection accepted","attr":
{"remote":"127.0.0.1:45920","isLoadBalanced":false,"uuid":{"uuid":{"$uuid":"b7464db5-390a-4b5f-8b99-4244f017fc91"}},"connectionId":35177,"connectionCount":8}}
{"t":{"$date":"2025-12-08T04:55:44.478+00:00"},"s":"I",  "c":"NETWORK",  "id":22943,   "ctx":"listener","msg":"Connection accepted","attr":
{"remote":"127.0.0.1:45930","isLoadBalanced":false,"uuid":{"uuid":{"$uuid":"8bd0f408-0e16-435a-92cc-f988e434e5df"}},"connectionId":35178,"connectionCount":9}}
{"t":{"$date":"2025-12-08T04:55:44.488+00:00"},"s":"I",  "c":"NETWORK",  "id":51800,   "ctx":"conn35177","msg":"client metadata","attr":
{"remote":"127.0.0.1:45920","client":"conn35177","negotiatedCompressors":[],"doc":{"application":{"name":"mongosh 2.5.9"},"driver":
{"name":"nodejs|mongosh","version":"6.19.0|2.5.9"},"platform":"Node.js v20.19.5, LE","os":{"name":"linux","architecture":"x64","version":"3.10.0-
327.22.2.el7.x86_64","type":"Linux"},"env":{"container":{"runtime":"docker"}}}}}
{"t":{"$date":"2025-12-08T04:55:44.488+00:00"},"s":"I",  "c":"ACCESS",   "id":10483900,"ctx":"conn35177","msg":"Connection not authenticating","attr":
{"client":"127.0.0.1:45920","doc":{"application":{"name":"mongosh 2.5.9"},"driver":{"name":"nodejs|mongosh","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"}}}}}
{"t":{"$date":"2025-12-08T04:55:44.493+00:00"},"s":"I",  "c":"NETWORK",  "id":51800,   "ctx":"conn35178","msg":"client metadata","attr":
{"remote":"127.0.0.1:45930","client":"conn35178","negotiatedCompressors":[],"doc":{"application":{"name":"mongosh 2.5.9"},"driver":
{"name":"nodejs|mongosh","version":"6.19.0|2.5.9"},"platform":"Node.js v20.19.5, LE","os":{"name":"linux","architecture":"x64","version":"3.10.0-
327.22.2.el7.x86_64","type":"Linux"},"env":{"container":{"runtime":"docker"}}}}}
{"t":{"$date":"2025-12-08T04:55:44.493+00:00"},"s":"I",  "c":"ACCESS",   "id":10483900,"ctx":"conn35178","msg":"Connection not authenticating","attr":
{"client":"127.0.0.1:45930","doc":{"application":{"name":"mongosh 2.5.9"},"driver":{"name":"nodejs|mongosh","version":"6.19.0|2.5.9"},"platform":"Node.js v20.19.5, LE","os":
```

RAM 6.99 GB CPU 6.42% Disk: 19.00 GB used (limit 1006.85 GB)

5.Mongodb screenshots

- Booking_db

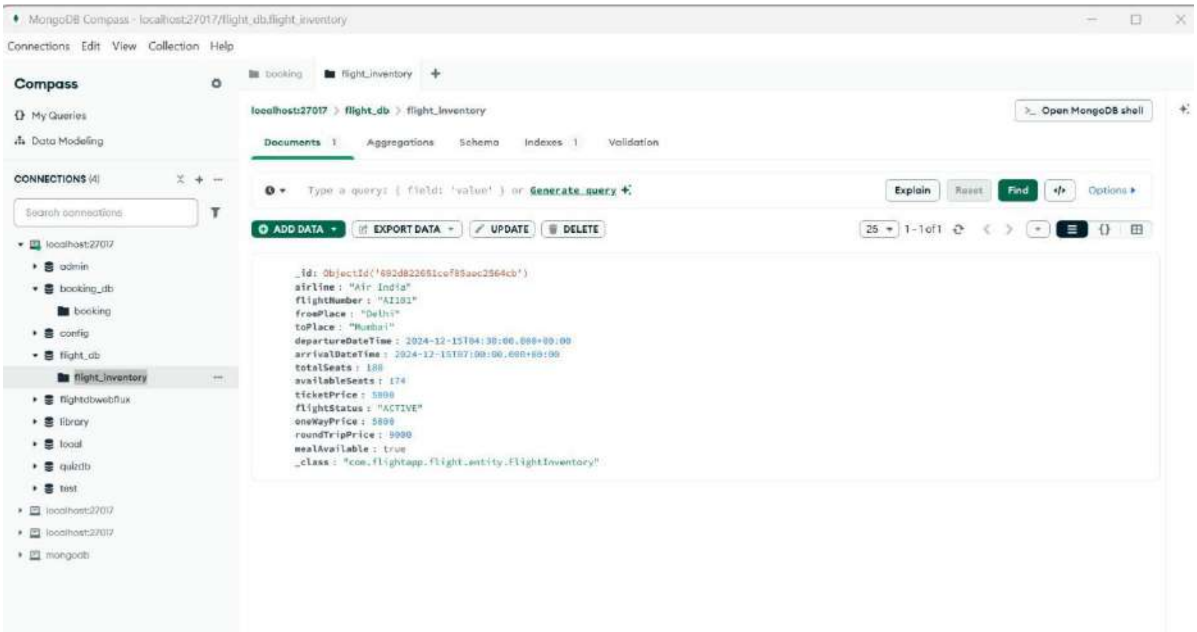


MongoDB Compass - localhost:27017/booking_db.booking

localhost:27017 > booking_db > booking

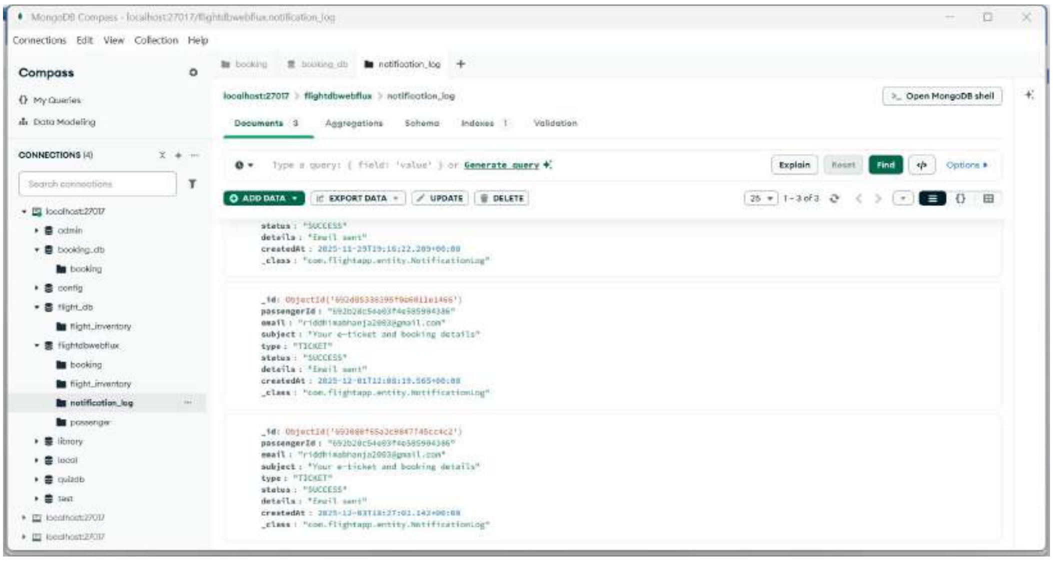
```
_id: ObjectId('692d8254fd1530048c1d1b37')
pnr : "PNR252A8D90"
flightId : "692d822651cef05aec2564cb"
flightNumber : "AI101"
airline : "Air India"
fromPlace : "Delhi"
toPlace : "Mumbai"
departureDateTime : 2024-12-15T04:30:00.000+00:00
arrivalDateTime : 2024-12-15T07:00:00.000+00:00
userName : "John Doe"
userEmail : "john.doe@example.com"
journeyDate : 2024-12-14T18:30:00.000+00:00
noOfSeats : 2
mealType : "VEG"
totalAmount : 10000
bookingStatus : "CANCELLED"
bookingDateTime : 2025-12-01T11:56:04.147+00:00
▸ passengers : Array (2)
_class : "com.flightapp.booking.entity.Booking"

_id: ObjectId('692d8208fd1530048c1d1b38')
pnr : "PNRE8F0545C"
flightId : "692d822651cef05aec2564cb"
flightNumber : "AI101"
airline : "Air India"
fromPlace : "Delhi"
```

- Flight_db



```
_id: ObjectId('692d822651cef85aac2564cb')
airline : "Air India"
flightNumber : "AI101"
fromPlace : "Delhi"
toPlace : "Mumbai"
departureDateTime : 2024-12-15T04:30:00.000+00:00
arrivalDateTime : 2024-12-15T07:00:00.000+00:00
totalSeats : 180
availableSeats : 174
ticketPrice : 5000
flightStatus : "ACTIVE"
oneWayPrice : 5000
roundTripPrice : 9000
mealAvailable : true
_class : "com.flightapp.flight.entity.FlightInventory"
```

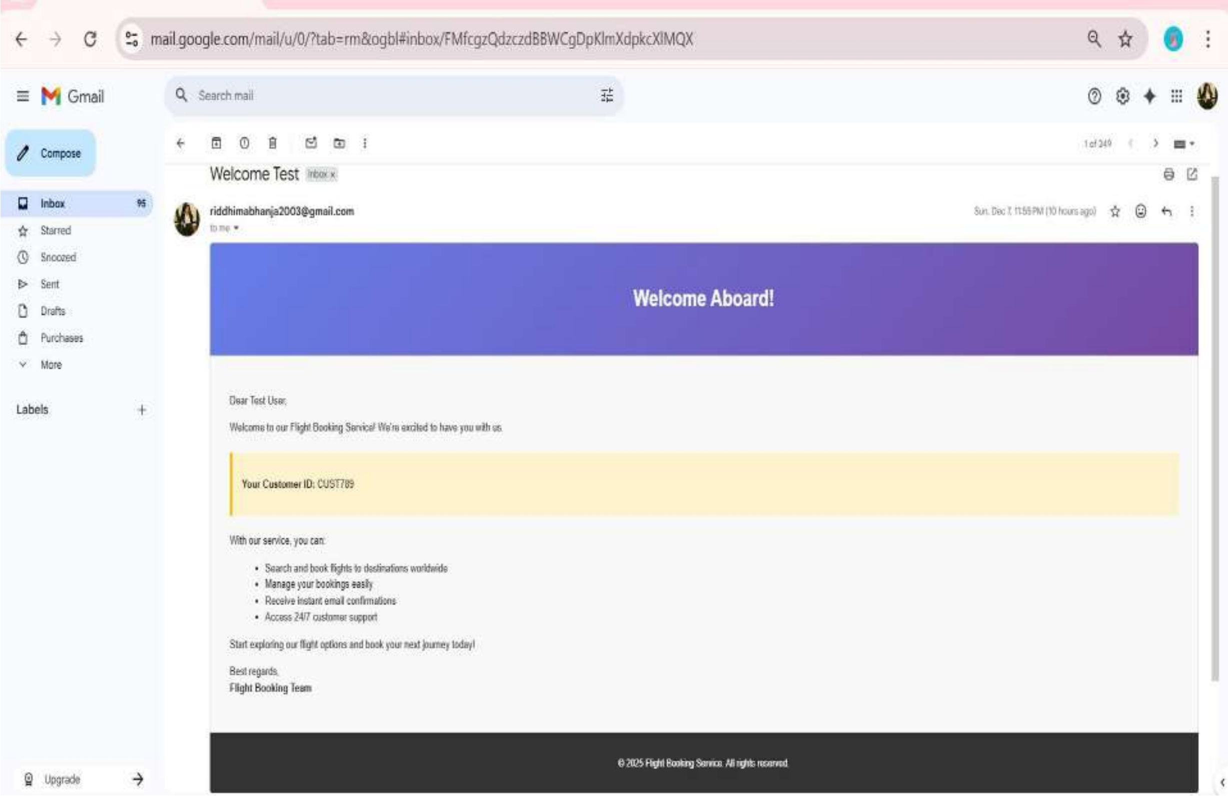
- Notification_logs



```
status : "SUCCESS"
details : "Email sent"
createdAt : 2025-11-25T19:16:22.205+00:00
_class : "com.flightapp.entity.NotificationLog"

_id: ObjectId('692d05338395f0c601le1466')
passengerId : "692b20c54e03f4e585904386"
email : "riddhimabhanja2003@gmail.com"
subject : "Your e-ticket and booking details"
type : "TICKET"
status : "SUCCESS"
details : "Email sent"
createdAt : 2025-12-01T12:08:19.565+00:00
_class : "com.flightapp.entity.NotificationLog"

_id: ObjectId('693080f65a2c9847745cc4c2')
passengerId : "692b20c54e03f4e585904386"
email : "riddhimabhanja2003@gmail.com"
subject : "Your e-ticket and booking details"
type : "TICKET"
status : "SUCCESS"
details : "Email sent"
createdAt : 2025-12-03T18:27:01.142+00:00
_class : "com.flightapp.entity.NotificationLog"
```

5. **Email**

- Welcome Email



mail.google.com/mail/u/0/?tab=rm&ogbl#inbox/FMfcgzQdzczdBBWCgDpKlmXdpkcXlMQX
Gmail
Search mail
Compose
Inbox 95
Starred
Snoozed
Sent
Drafts
Purchases
More
Labels
Upgrade
1 of 349
Inbox ×
Sun, Dec 7, 11:55 PM (10 hours ago)

Welcome Test

riddhimabhanja2003@gmail.com
to me

Welcome Aboard!

Dear Test User,

Welcome to our Flight Booking Service! We're excited to have you with us.

Your Customer ID: CUST789

With our service, you can:

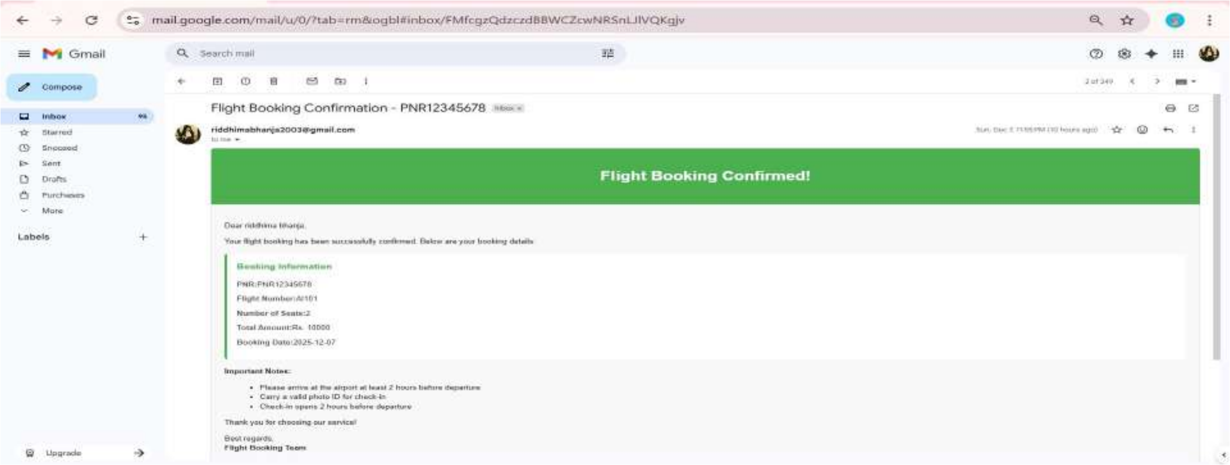
- Search and book flights to destinations worldwide
- Manage your bookings easily
- Receive instant email confirmations
- Access 24/7 customer support

Start exploring our flight options and book your next journey today!

Best regards,
Flight Booking Team

© 2025 Flight Booking Service. All rights reserved.

- Confirm Booking Email
-



Flight Booking Confirmation - PNR12345678

riddhimabhanja2003@gmail.com
to me

Flight Booking Confirmed!

Dear riddhima bhanja,

Your flight booking has been successfully confirmed. Below are your booking details:

Booking Information

PNR:PNR12345678
Flight Number:AI101
Number of Seats:2
Total Amount:Rs. 10000
Booking Date:2025-12-07

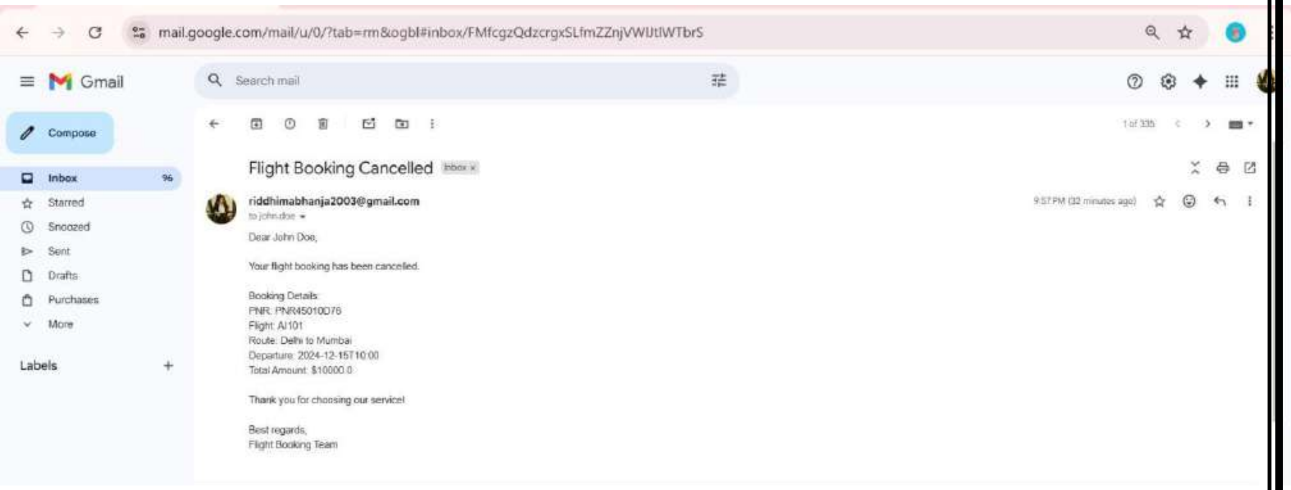
Important Notes:

- Please arrive at the airport at least 2 hours before departure
- Carry a valid photo ID for check-in
- Check-in opens 2 hours before departure

Thank you for choosing our service!

Best regards,
Flight Booking Team

- <u>Flight cancel email</u>



Flight Booking Cancelled

riddhimabhanja2003@gmail.com
to john.doe

Dear John Doe,

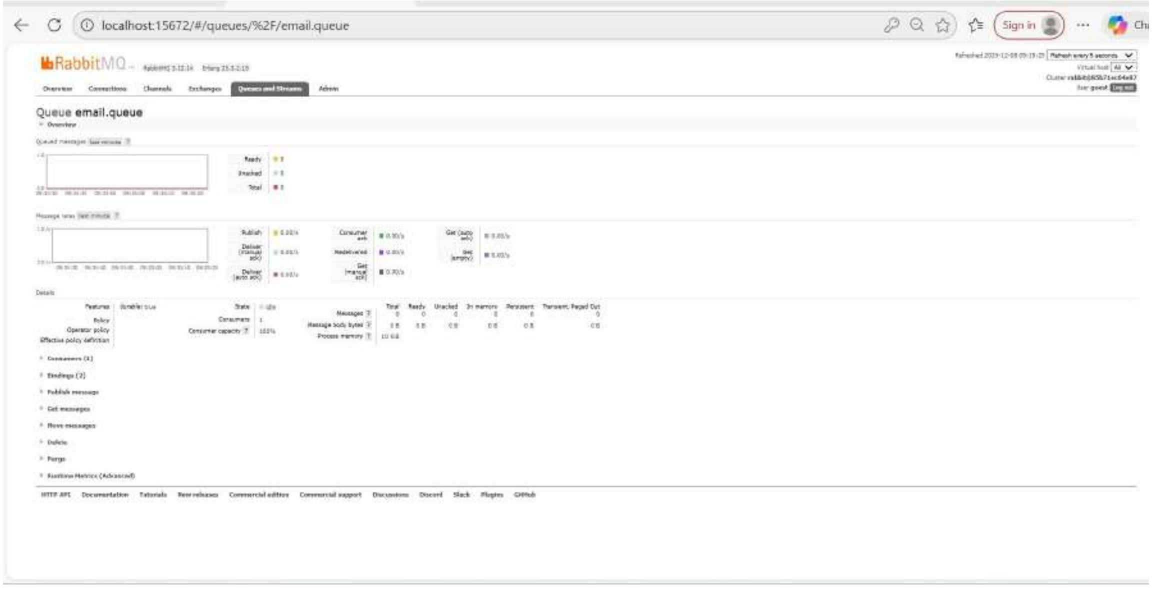
Your flight booking has been cancelled.

Booking Details:
PNR: PNR45010D76
Flight: AI101
Route: Delhi to Mumbai
Departure: 2024-12-15T10:00
Total Amount: $10000.0

Thank you for choosing our service!

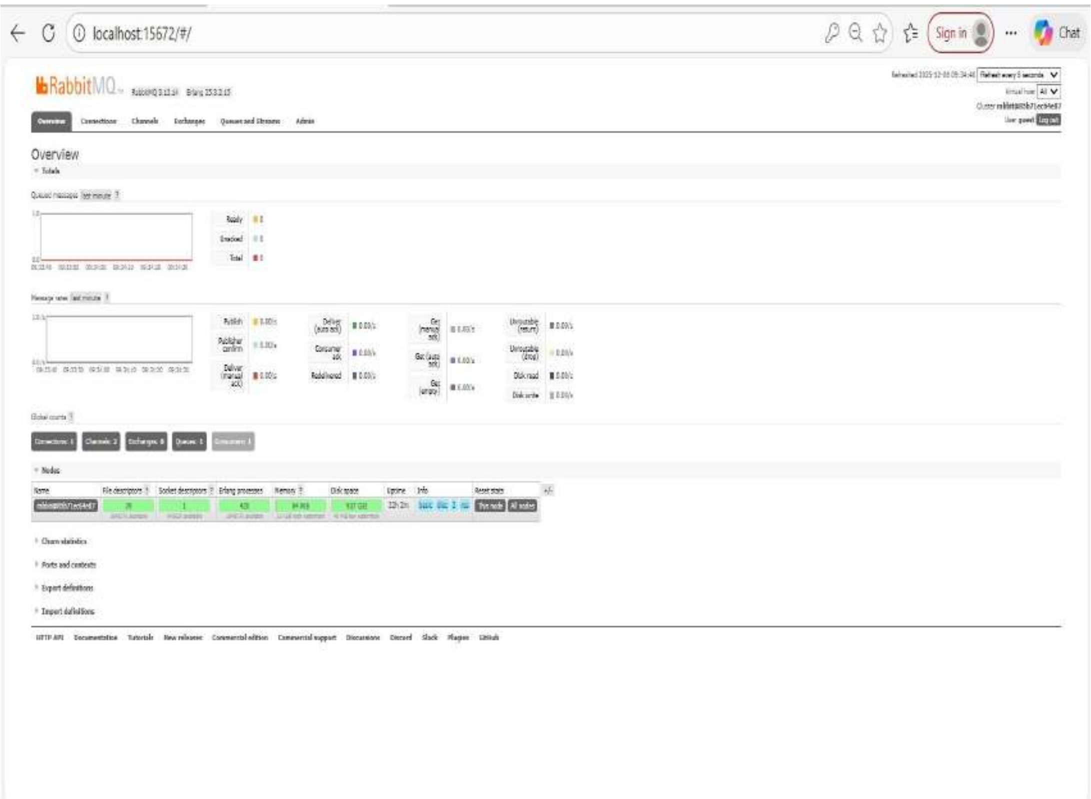
Best regards,
Flight Booking Team

<u>RabbitMQ email-queue dashboard</u>



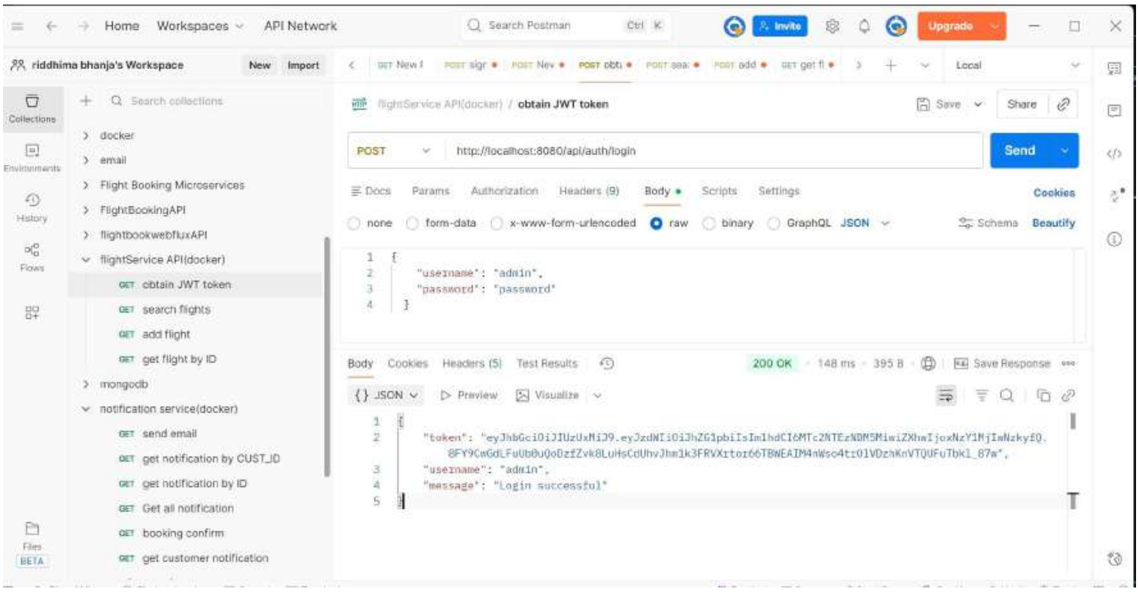
Queue email.queue

RabbitMQ overview dashboard



6. Postman screenshots

Obtain JWT TOKEN



POST http://localhost:8080/api/auth/login

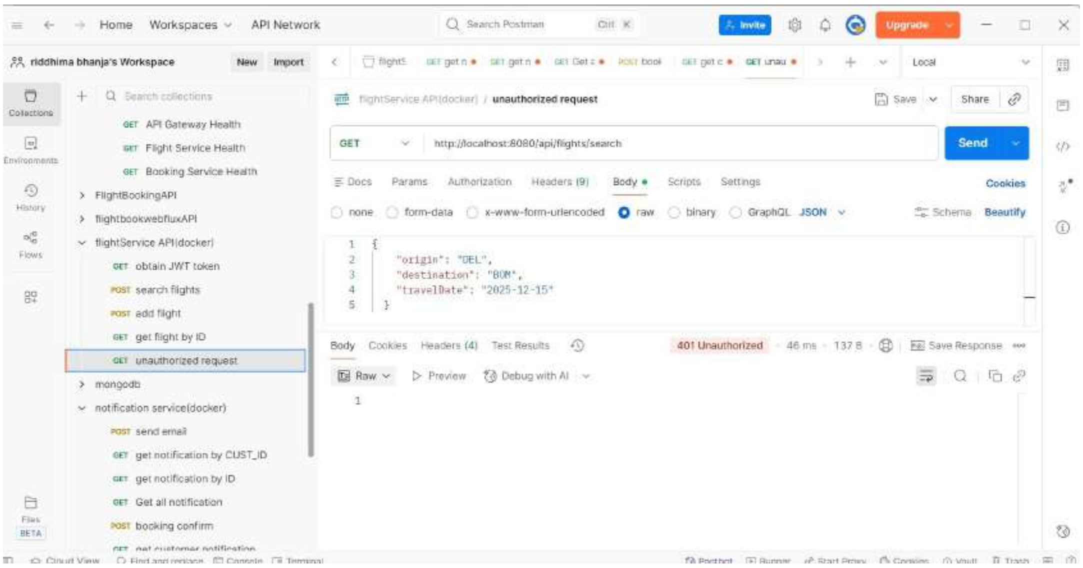
Body: ○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON

```
{
    "username": "admin",
    "password": "password"
}
```

200 OK · 148 ms · 395 B

```
{
    "token": "eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJhZG1pbiIsImlhdCI6MTc2NTEzNDM5MiwiZXhwIjoxNzY1MjIwNzkyfQ.
        8FY9CwGdLFuUb0uQoDzfZvk8LuHsCdUhvJhm1k3FRVXrtor66TBWEAIM4nWso4tr0lVDzhKnVTQUFuTbkl_87w",
    "username": "admin",
    "message": "Login successful"
}
```

Unauthorized access



flightService API(docker) / unauthorized request

GET http://localhost:8080/api/flights/search

Body: ○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON

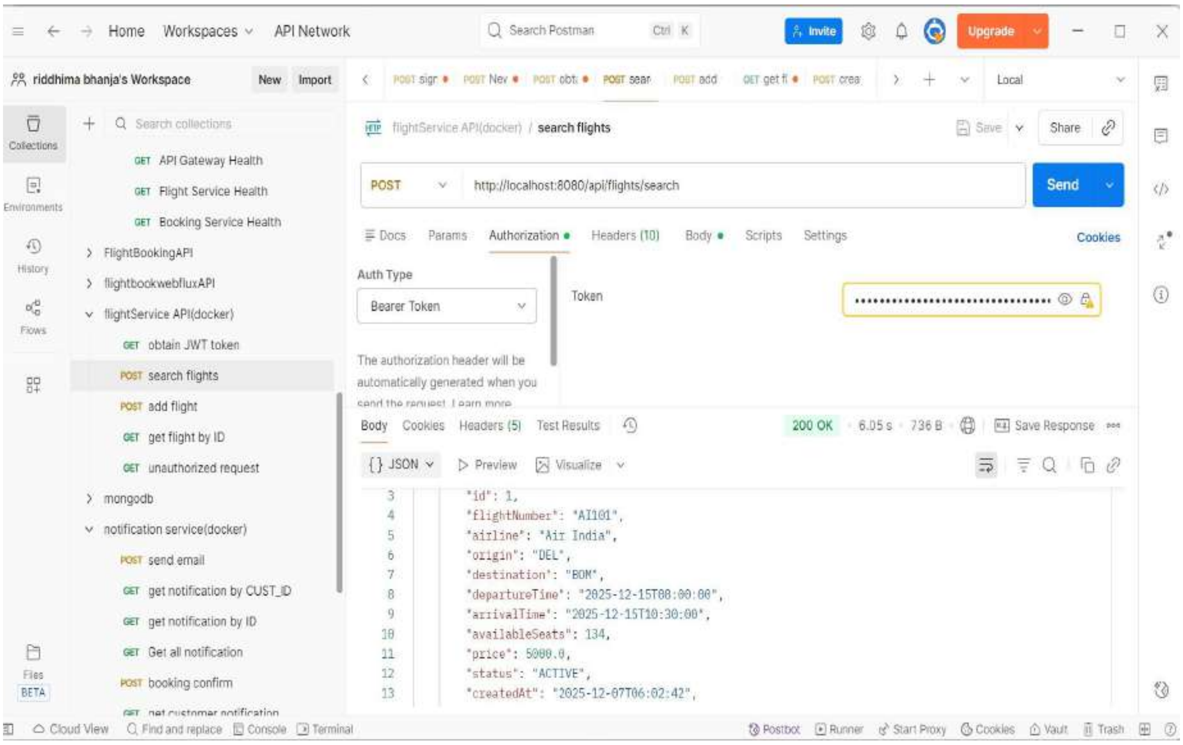
```
{
    "origin": "DEL",
    "destination": "BOM",
    "travelDate": "2025-12-15"
}
```

401 Unauthorized · 46 ms · 137 B

Raw

```
1
```

Same endpoint with auth bearer token



flightService API(docker) / search flights

POST http://localhost:8080/api/flights/search

Auth Type: Bearer Token

Token: ••••••••••••••••••••••••••••••••••

The authorization header will be automatically generated when you send the request. Learn more

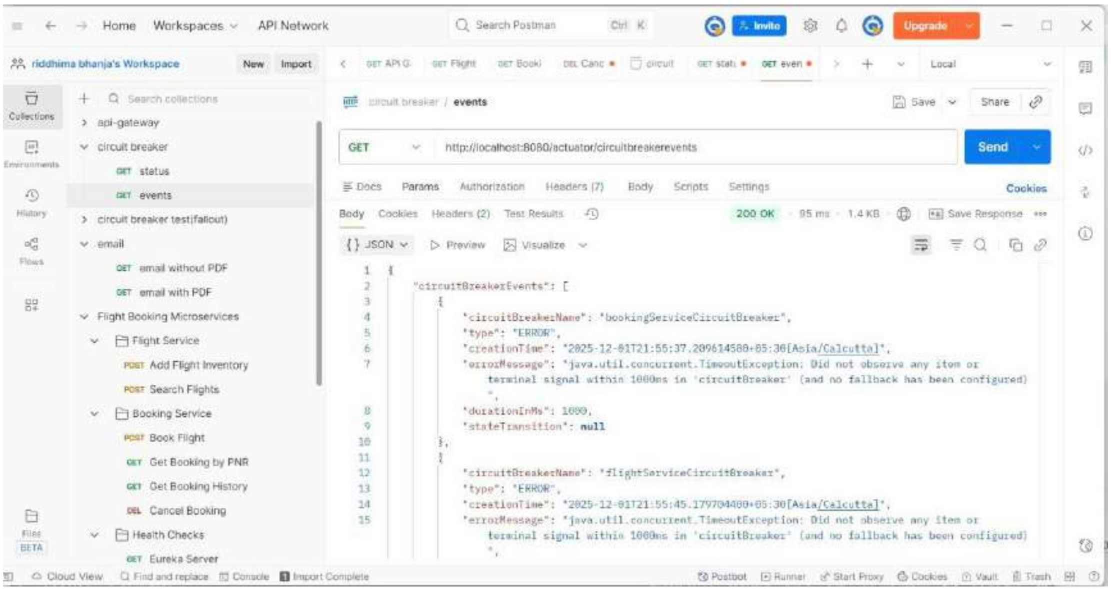
200 OK · 6.05 s · 736 B

JSON

```
    "id": 1,
    "flightNumber": "AI101",
    "airline": "Air India",
    "origin": "DEL",
    "destination": "BOM",
    "departureTime": "2025-12-15T08:00:00",
    "arrivalTime": "2025-12-15T10:30:00",
    "availableSeats": 134,
    "price": 5000.0,
    "status": "ACTIVE",
    "createdAt": "2025-12-07T06:02:42",
```

- **<u>Circuit Breaker</u>**

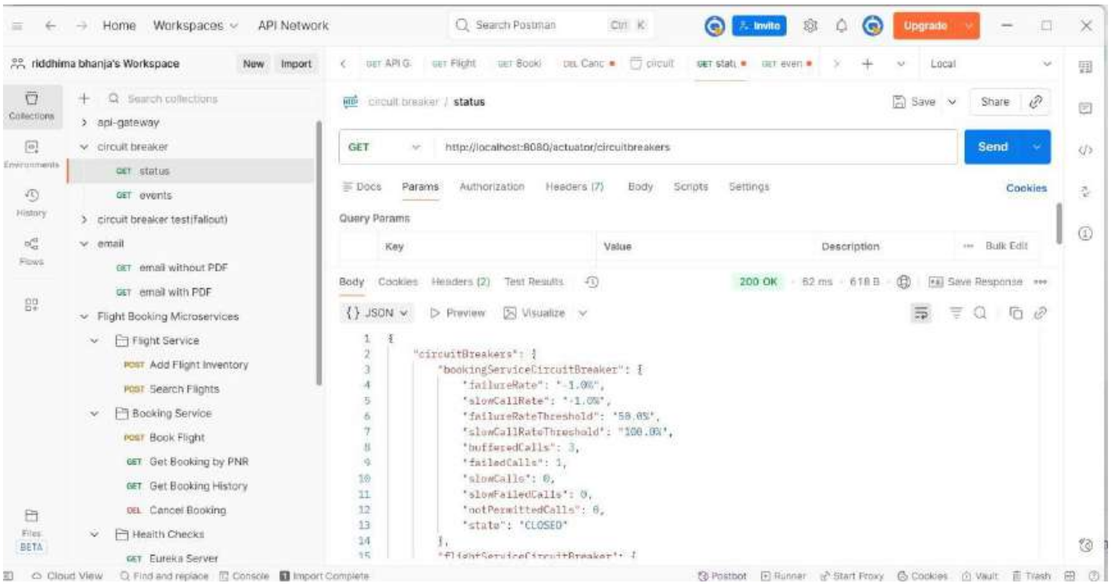
Events:



GET http://localhost:8080/actuator/circuitbreakerevents

```
{
    "circuitBreakerEvents": [
        {
            "circuitBreakerName": "bookingServiceCircuitBreaker",
            "type": "ERROR",
            "creationTime": "2025-12-01T21:55:37.209614500+05:30[Asia/Calcutta]",
            "errorMessage": "java.util.concurrent.TimeoutException: Did not observe any item or
                terminal signal within 1000ms in 'circuitBreaker' (and no fallback has been configured)
                ",
            "durationInMs": 1000,
            "stateTransition": null
        },
        {
            "circuitBreakerName": "flightServiceCircuitBreaker",
            "type": "ERROR",
            "creationTime": "2025-12-01T21:55:45.179704400+05:30[Asia/Calcutta]",
            "errorMessage": "java.util.concurrent.TimeoutException: Did not observe any item or
                terminal signal within 1000ms in 'circuitBreaker' (and no fallback has been configured)
                ",
```

<u>Status:</u>

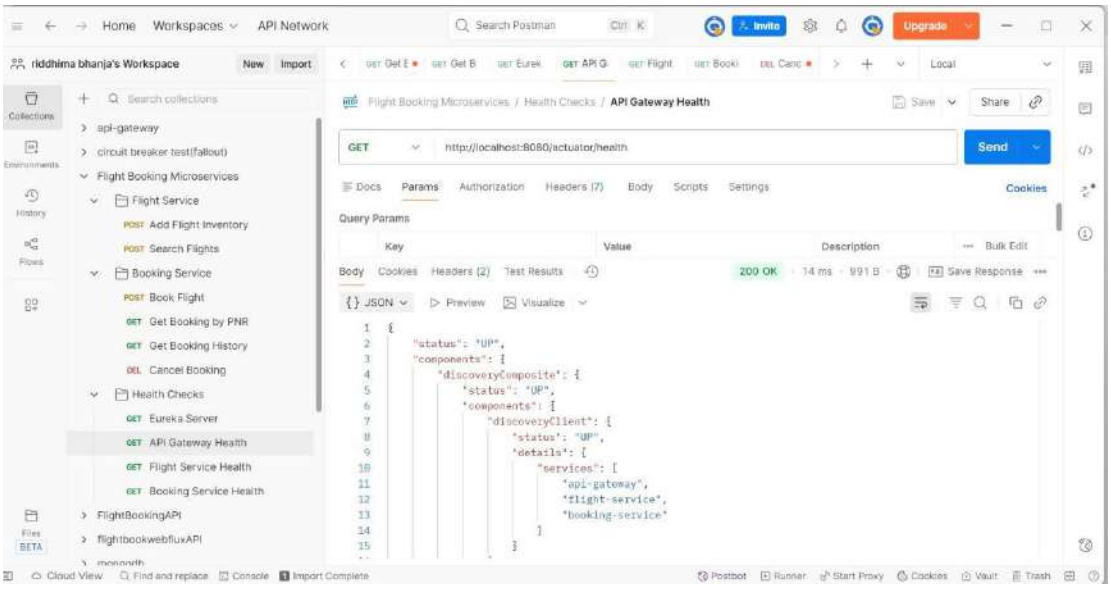


GET http://localhost:8080/actuator/circuitbreakers

```
{
    "circuitBreakers": {
        "bookingServiceCircuitBreaker": {
            "failureRate": "-1.0%",
            "slowCallRate": "-1.0%",
            "failureRateThreshold": "50.0%",
            "slowCallRateThreshold": "100.0%",
            "bufferedCalls": 3,
            "failedCalls": 1,
            "slowCalls": 0,
            "slowFailedCalls": 0,
            "notPermittedCalls": 0,
            "state": "CLOSED"
        },
        "flightServiceCircuitBreaker": {
```

- ## Health Check

API gateway health:



Flight Booking Microservices / Health Checks / **API Gateway Health**

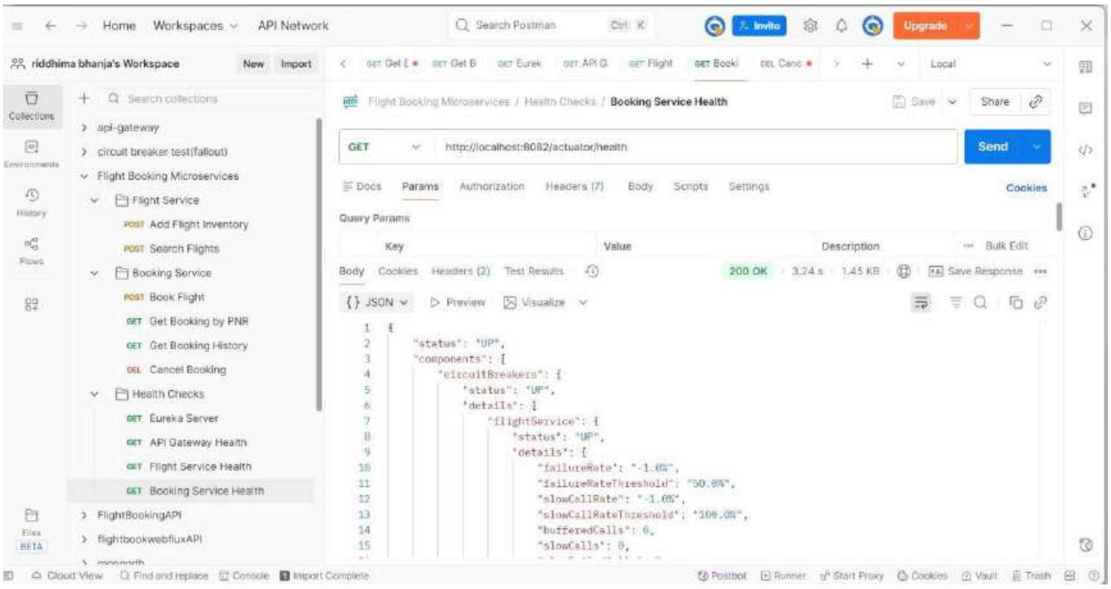
GET http://localhost:8080/actuator/health

Key	Value	Description

Body · 200 OK · 14 ms · 991 B · JSON

```
{
    "status": "UP",
    "components": {
        "discoveryComposite": {
            "status": "UP",
            "components": {
                "discoveryClient": {
                    "status": "UP",
                    "details": {
                        "services": [
                            "api-gateway",
                            "flight-service",
                            "booking-service"
                        ]
                    }
```

Booking Service Health:



Flight Booking Microservices / Health Checks / **Booking Service Health**

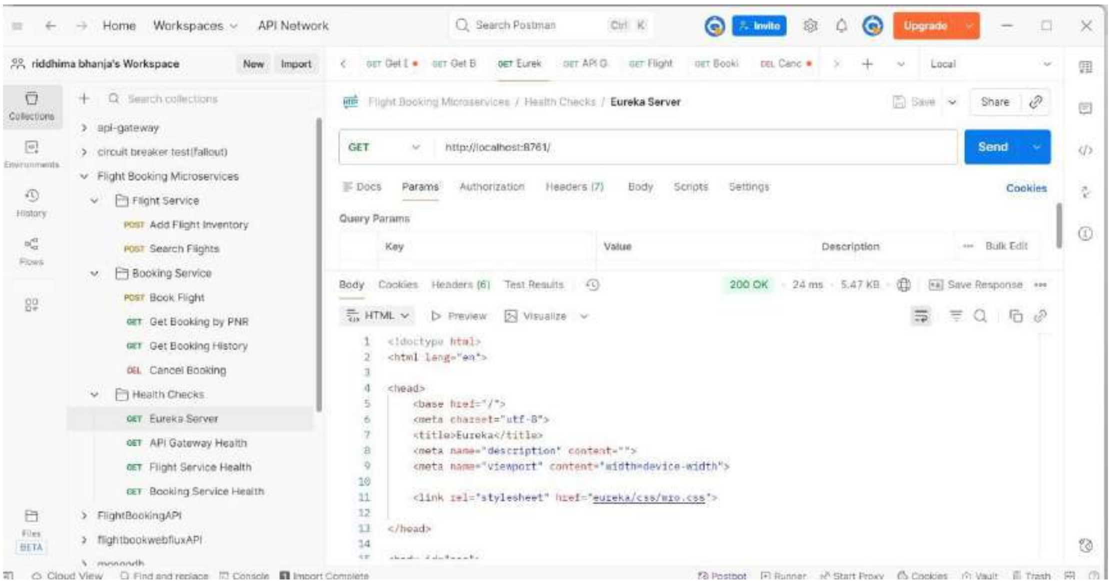
GET http://localhost:8082/actuator/health

Key	Value	Description

Body · 200 OK · 3.24 s · 1.45 KB · JSON

```
{
    "status": "UP",
    "components": {
        "circuitBreakers": {
            "status": "UP",
            "details": {
                "flightService": {
                    "status": "UP",
                    "details": {
                        "failureRate": "-1.0%",
                        "failureRateThreshold": "50.0%",
                        "slowCallRate": "-1.0%",
                        "slowCallRateThreshold": "100.0%",
                        "bufferedCalls": 0,
                        "slowCalls": 0,
```

Eureka server:



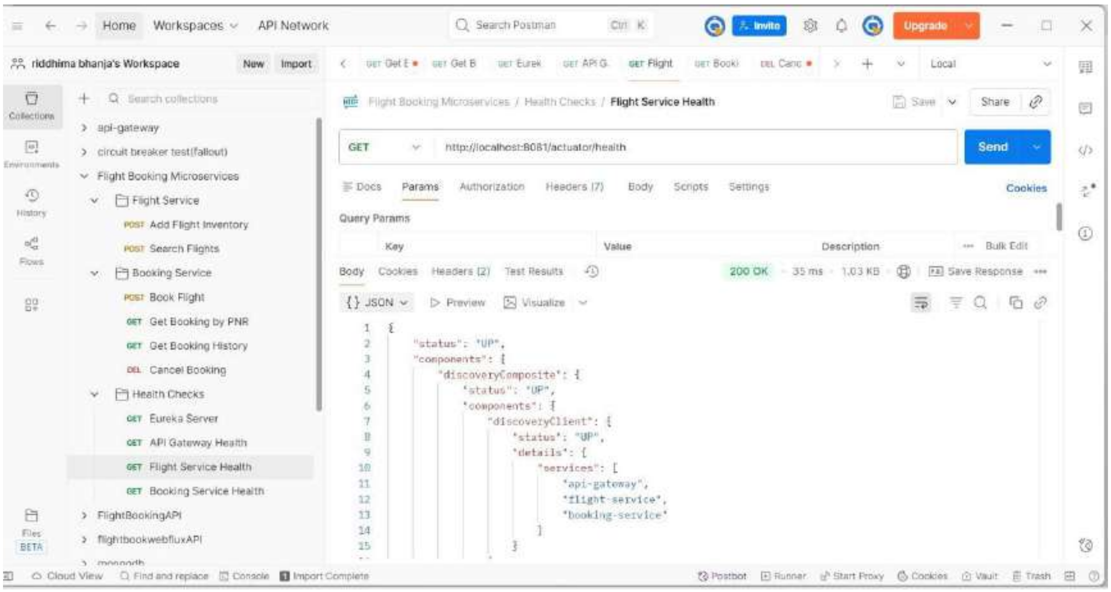
Flight Booking Microservices / Health Checks / Eureka Server

GET http://localhost:8761/

200 OK · 24 ms · 5.47 KB

```
<!doctype html>
<html lang="en">

<head>
    <base href="/">
    <meta charset="utf-8">
    <title>Eureka</title>
    <meta name="description" content="">
    <meta name="viewport" content="width=device-width">

    <link rel="stylesheet" href="eureka/css/wro.css">

</head>

```

Flight Service Health:



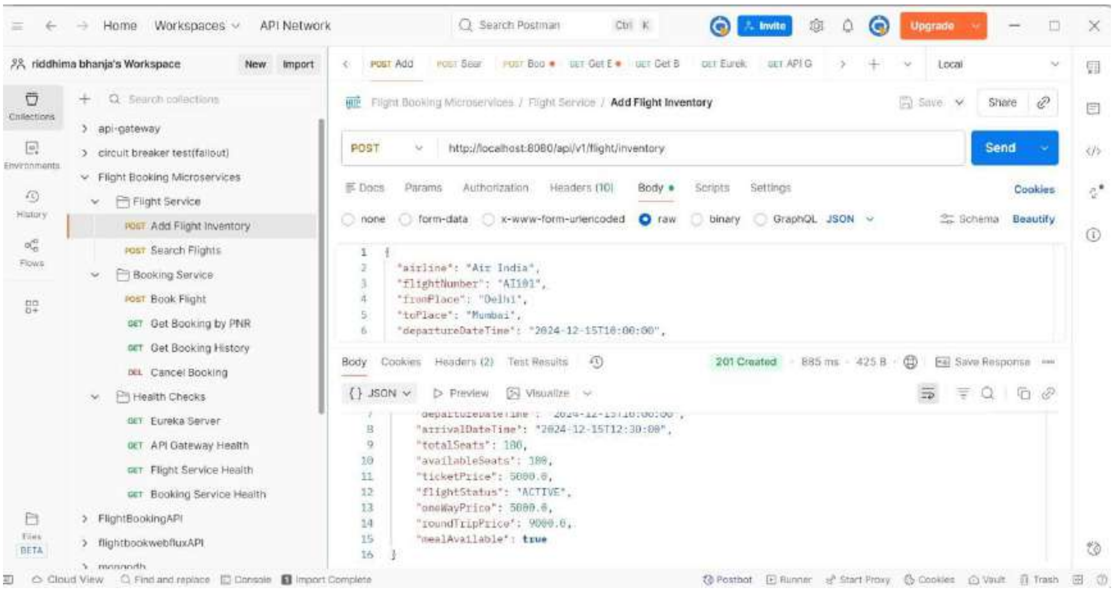
Flight Booking Microservices / Health Checks / Flight Service Health

GET http://localhost:8081/actuator/health

200 OK · 35 ms · 1.03 KB

```
{
    "status": "UP",
    "components": {
        "discoveryComposite": {
            "status": "UP",
            "components": {
                "discoveryClient": {
                    "status": "UP",
                    "details": {
                        "services": [
                            "api-gateway",
                            "flight-service",
                            "booking-service"
                        ]
                    }
```

ADD FLIGHT



Flight Booking Microservices / Flight Service / Add Flight Inventory

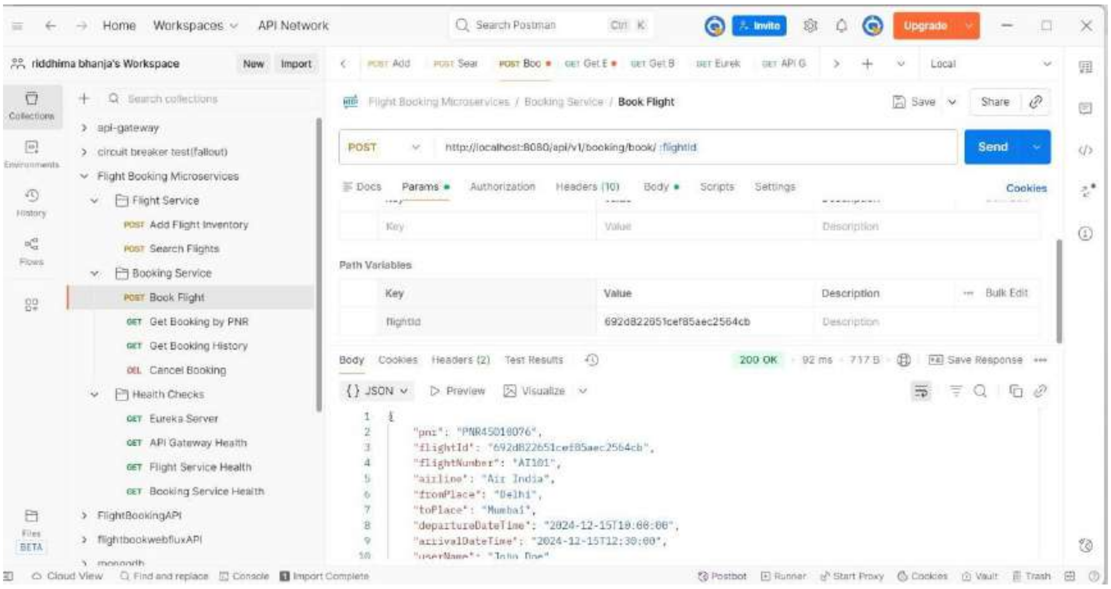
POST http://localhost:8080/api/v1/flight/inventory

```
{
  "airline": "Air India",
  "flightNumber": "AI101",
  "fromPlace": "Delhi",
  "toPlace": "Mumbai",
  "departureDateTime": "2024-12-15T10:00:00",
```

201 Created · 885 ms · 425 B

```
    "departureDateTime": "2024-12-15T10:00:00",
    "arrivalDateTime": "2024-12-15T12:30:00",
    "totalSeats": 100,
    "availableSeats": 100,
    "ticketPrice": 5000.0,
    "flightStatus": "ACTIVE",
    "oneWayPrice": 5000.0,
    "roundTripPrice": 9000.0,
    "mealAvailable": true
}
```

BOOK FLIGHT



Flight Booking Microservices / Booking Service / Book Flight

POST http://localhost:8080/api/v1/booking/book/ :flightId

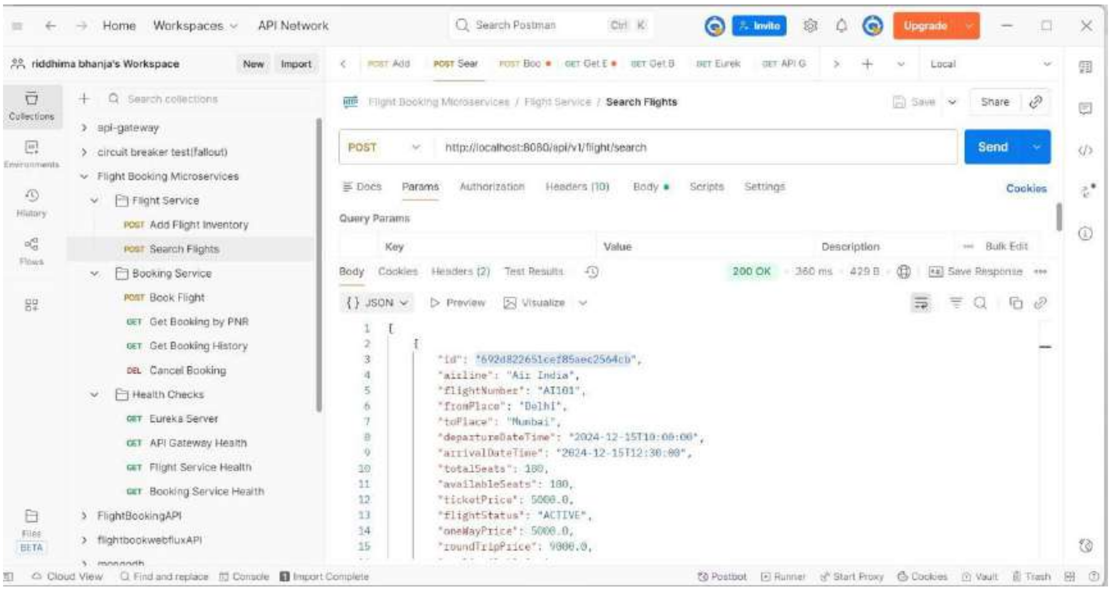
Path Variables

Key	Value	Description
flightId	692d822651cef85aec2564cb	Description

200 OK · 92 ms · 717 B

```
{
    "pnr": "PNR45018076",
    "flightId": "692d822651cef85aec2564cb",
    "flightNumber": "AI101",
    "airline": "Air India",
    "fromPlace": "Delhi",
    "toPlace": "Mumbai",
    "departureDateTime": "2024-12-15T10:00:00",
    "arrivalDateTime": "2024-12-15T12:30:00",
    "userName": "John Doe"
```

SEARCH FLIGHTS



Flight Booking Microservices / Flight Service / Search Flights

POST http://localhost:8080/api/v1/flight/search

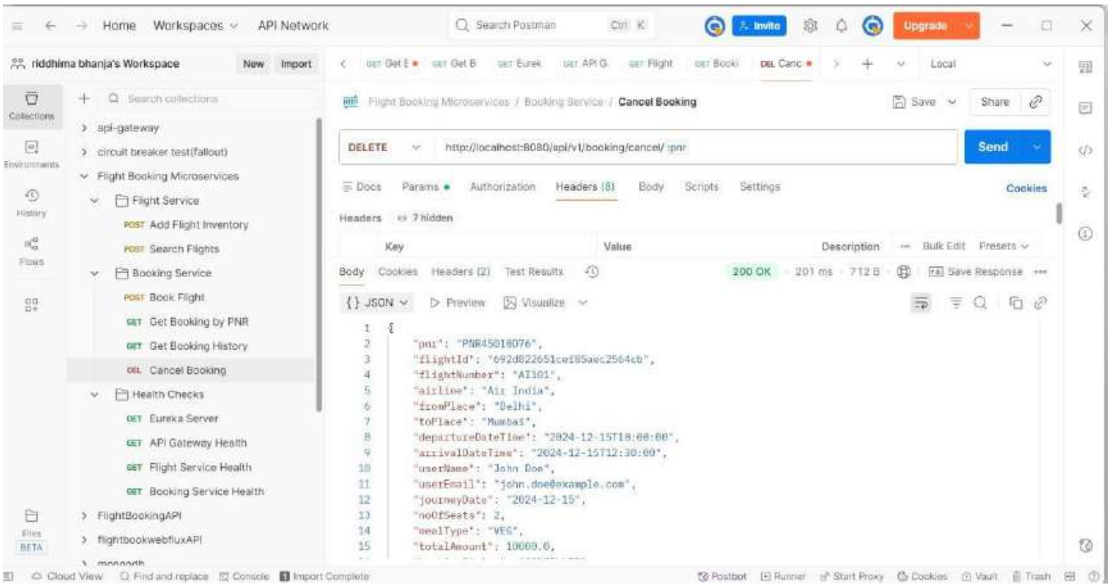
Query Params

Key	Value	Description

Body · 200 OK · 360 ms · 429 B

```
[
    {
        "id": "692d822651cef85aec2564cb",
        "airline": "Air India",
        "flightNumber": "AI101",
        "fromPlace": "Delhi",
        "toPlace": "Mumbai",
        "departureDateTime": "2024-12-15T10:00:00",
        "arrivalDateTime": "2024-12-15T12:30:00",
        "totalSeats": 180,
        "availableSeats": 180,
        "ticketPrice": 5000.0,
        "flightStatus": "ACTIVE",
        "oneWayPrice": 5000.0,
        "roundTripPrice": 9000.0,
```

CANCEL BOOKING



Flight Booking Microservices / Booking Service / Cancel Booking

DELETE http://localhost:8080/api/v1/booking/cancel/:pnr

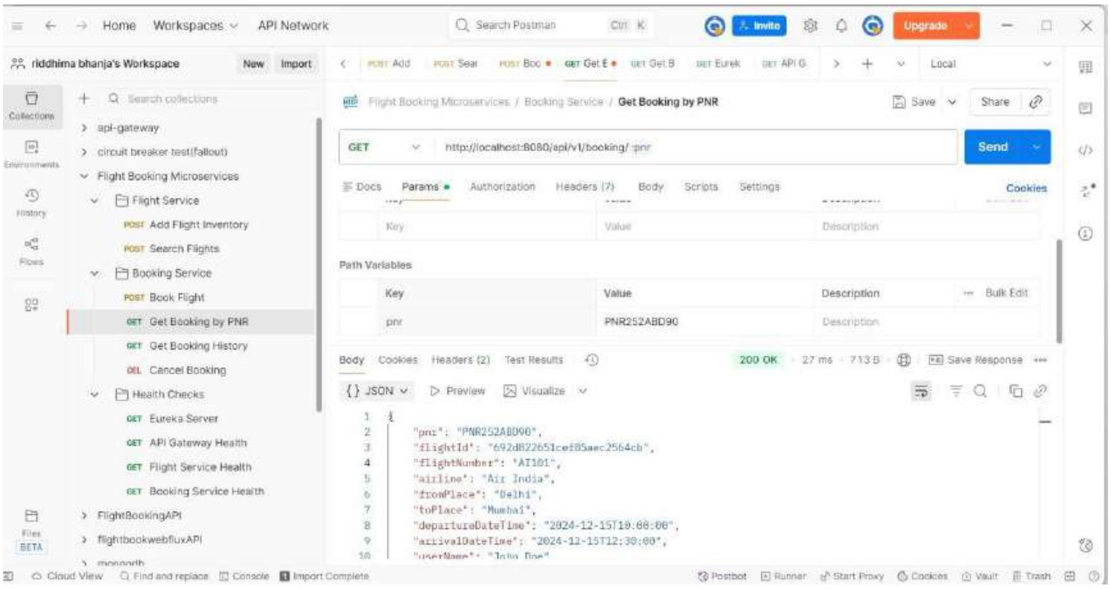
Headers 7 hidden

Key	Value	Description

Body · 200 OK · 201 ms · 712 B

```
{
    "pnr": "PNR45018076",
    "flightId": "692d822651cef85aec2564cb",
    "flightNumber": "AI101",
    "airline": "Air India",
    "fromPlace": "Delhi",
    "toPlace": "Mumbai",
    "departureDateTime": "2024-12-15T10:00:00",
    "arrivalDateTime": "2024-12-15T12:30:00",
    "userName": "John Doe",
    "userEmail": "john.doe@example.com",
    "journeyDate": "2024-12-15",
    "noOfSeats": 2,
    "mealType": "VEG",
    "totalAmount": 10000.0,
```

GET BOOKING BY PNR



GET http://localhost:8080/api/v1/booking/:pnr

Path Variables

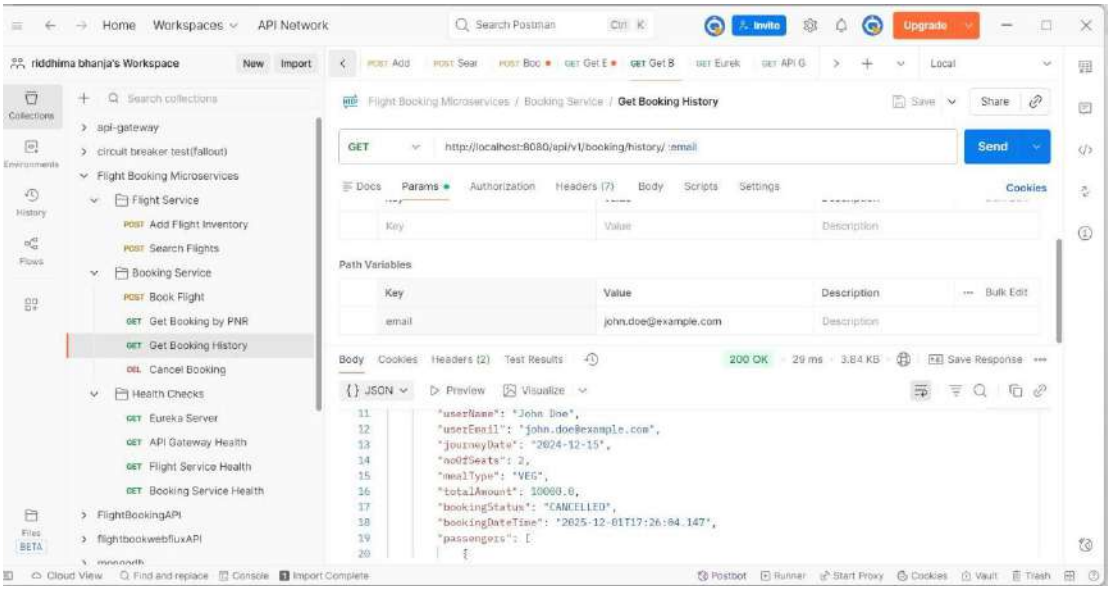
Key	Value	Description
pnr	PNR252ABD90	

Body 200 OK · 27 ms · 713 B

JSON

```
{
    "pnr": "PNR252ABD90",
    "flightId": "692d822651cef85aec2564cb",
    "flightNumber": "AI101",
    "airline": "Air India",
    "fromPlace": "Delhi",
    "toPlace": "Mumbai",
    "departureDateTime": "2024-12-15T10:00:00",
    "arrivalDateTime": "2024-12-15T12:30:00",
    "userName": "John Doe"
```

GET BOOKING HISTORY



GET http://localhost:8080/api/v1/booking/history/:email

Path Variables

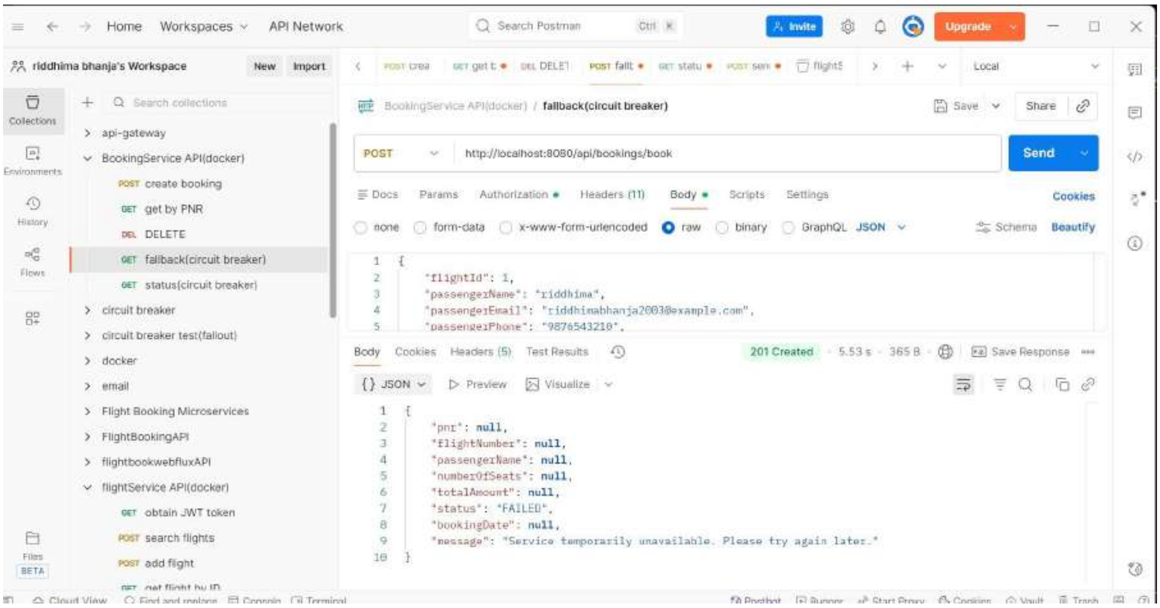
Key	Value	Description
email	john.doe@example.com	

Body 200 OK · 29 ms · 3.84 KB

JSON

```
        "userName": "John Doe",
        "userEmail": "john.doe@example.com",
        "journeyDate": "2024-12-15",
        "noOfSeats": 2,
        "mealType": "VEG",
        "totalAmount": 10000.0,
        "bookingStatus": "CANCELLED",
        "bookingDateTime": "2025-12-01T17:26:04.147",
        "passengers": [
            {
```

FALLBACK case



BookingService API(docker) / fallback(circuit breaker)

POST http://localhost:8080/api/bookings/book

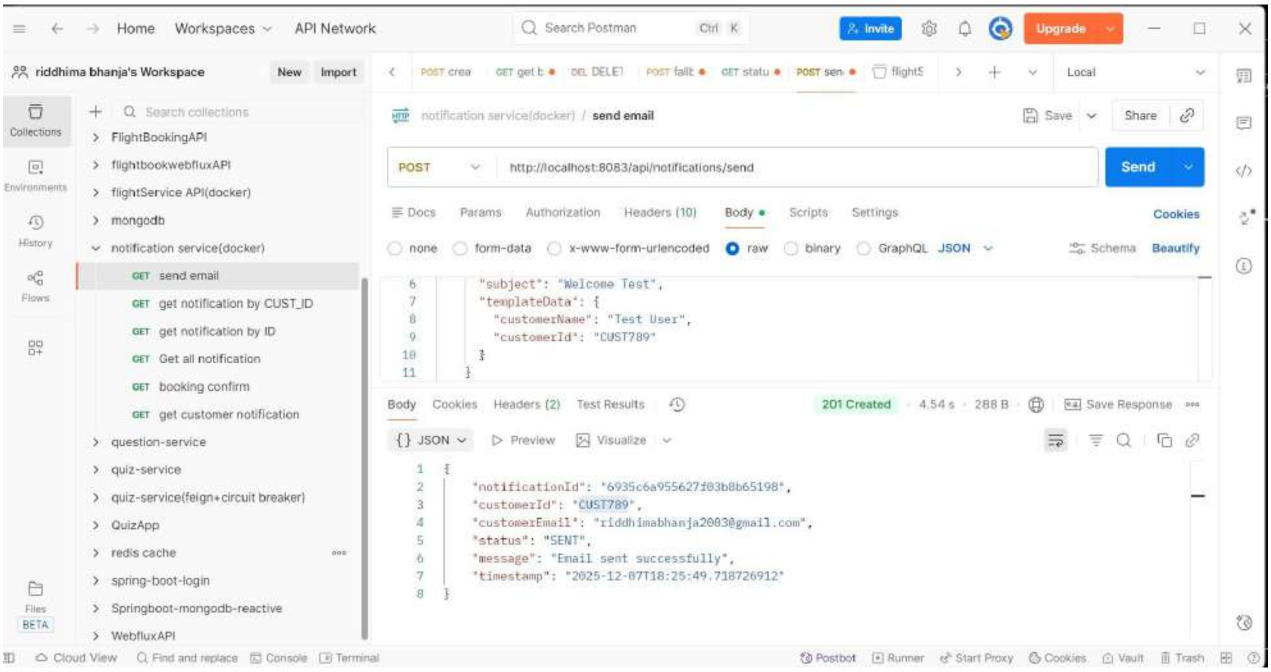
○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON

```
{
    "flightId": 1,
    "passengerName": "riddhima",
    "passengerEmail": "riddhimabhanja2003@example.com",
    "passengerPhone": "9876543210",
```

Body Cookies Headers (5) Test Results — 201 Created · 5.53 s · 365 B

```
{
    "pnr": null,
    "flightNumber": null,
    "passengerName": null,
    "numberOfSeats": null,
    "totalAmount": null,
    "status": "FAILED",
    "bookingDate": null,
    "message": "Service temporarily unavailable. Please try again later."
}
```

SEND EMAIL



notification service(docker) / send email

POST http://localhost:8083/api/notifications/send

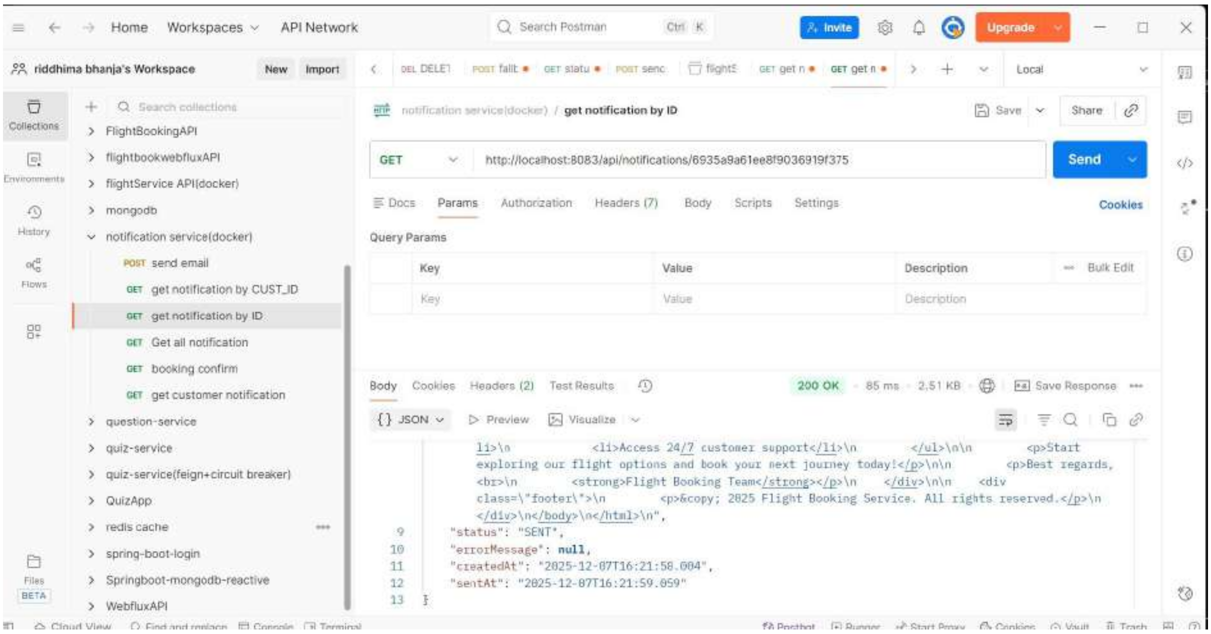
○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON

```
    "subject": "Welcome Test",
    "templateData": {
      "customerName": "Test User",
      "customerId": "CUST789"
    }
}
```

Body Cookies Headers (2) Test Results — 201 Created · 4.54 s · 288 B

```
{
    "notificationId": "6935c6a955627f03b8b65198",
    "customerId": "CUST789",
    "customerEmail": "riddhimabhanja2003@gmail.com",
    "status": "SENT",
    "message": "Email sent successfully",
    "timestamp": "2025-12-07T18:25:49.718726912"
}
```

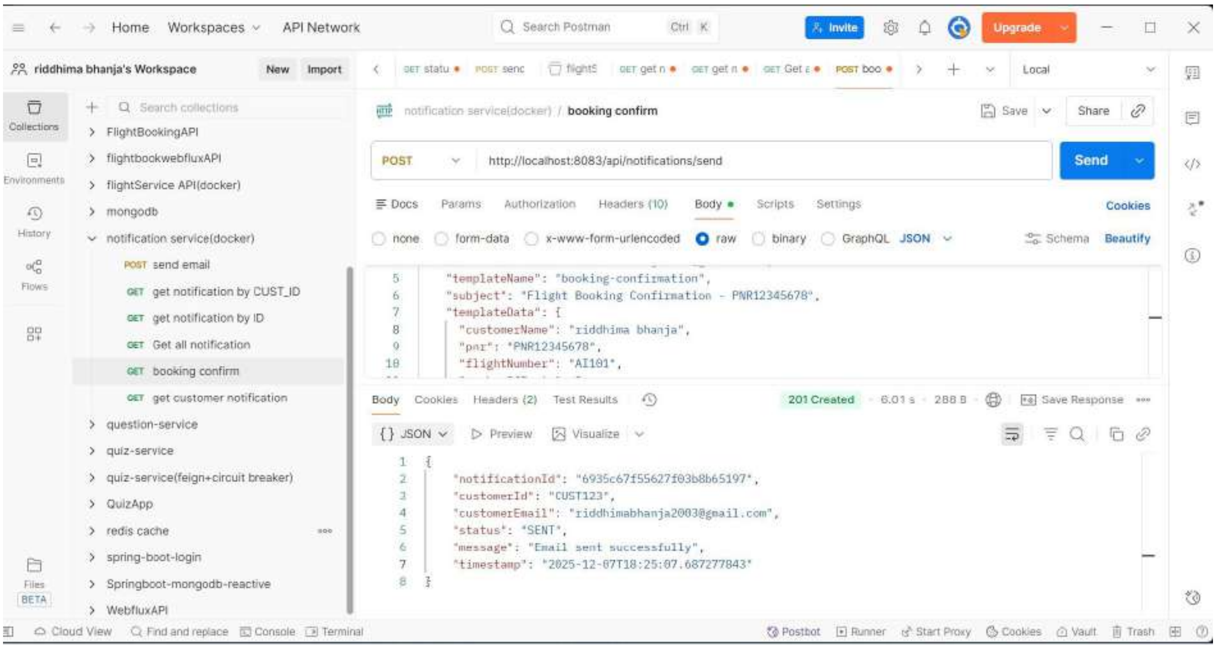
GET BY ID



GET http://localhost:8083/api/notifications/6935a9a61ee8f9036919f375

```
      li>\n            <li>Access 24/7 customer support</li>\n        </ul>\n\n        <p>Start
      exploring our flight options and book your next journey today!</p>\n\n        <p>Best regards,
      <br>\n        <strong>Flight Booking Team</strong></p>\n    </div>\n\n    <div
      class=\"footer\">\n        <p>&copy; 2025 Flight Booking Service. All rights reserved.</p>\n
      </div>\n</body>\n</html>\n",
  "status": "SENT",
  "errorMessage": null,
  "createdAt": "2025-12-07T16:21:58.004",
  "sentAt": "2025-12-07T16:21:59.059"
}
```

BOOKING CONFIRMATION EMAIL

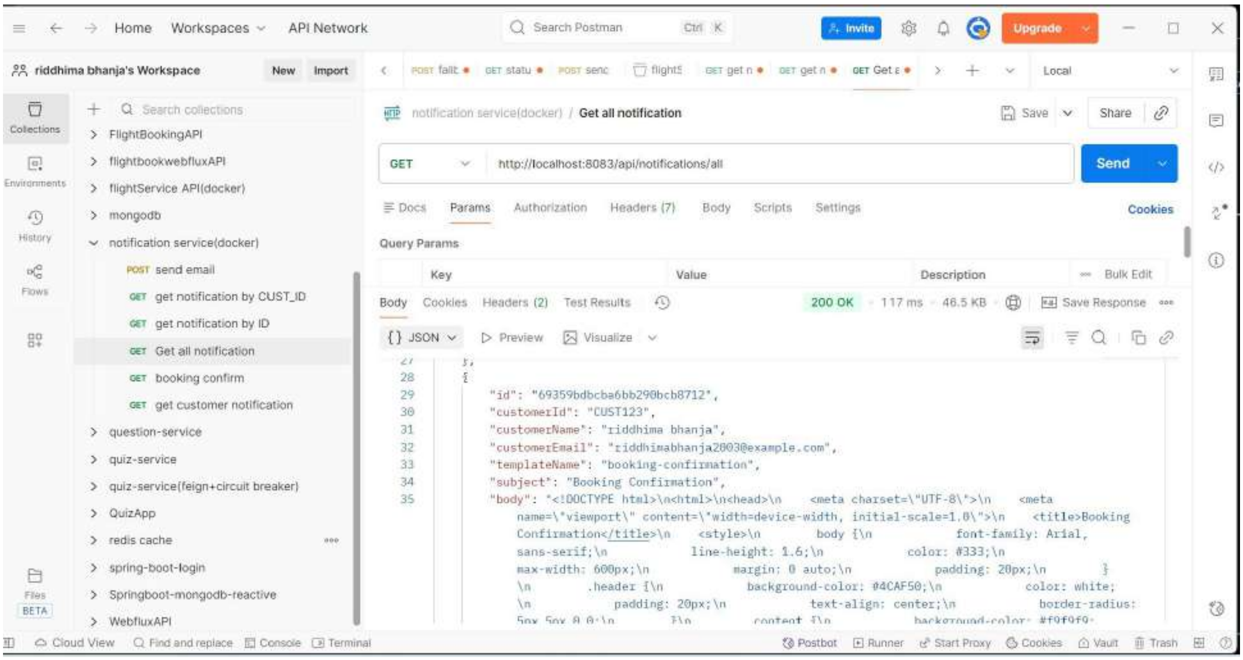


POST http://localhost:8083/api/notifications/send

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

```
{
  "notificationId": "6935c67f55627f03b8b65197",
  "customerId": "CUST123",
  "customerEmail": "riddhimabhanja2003@gmail.com",
  "status": "SENT",
  "message": "Email sent successfully",
  "timestamp": "2025-12-07T18:25:07.687277843"
}
```

GET ALL NOTIFICATION



notification service(docker) / Get all notification

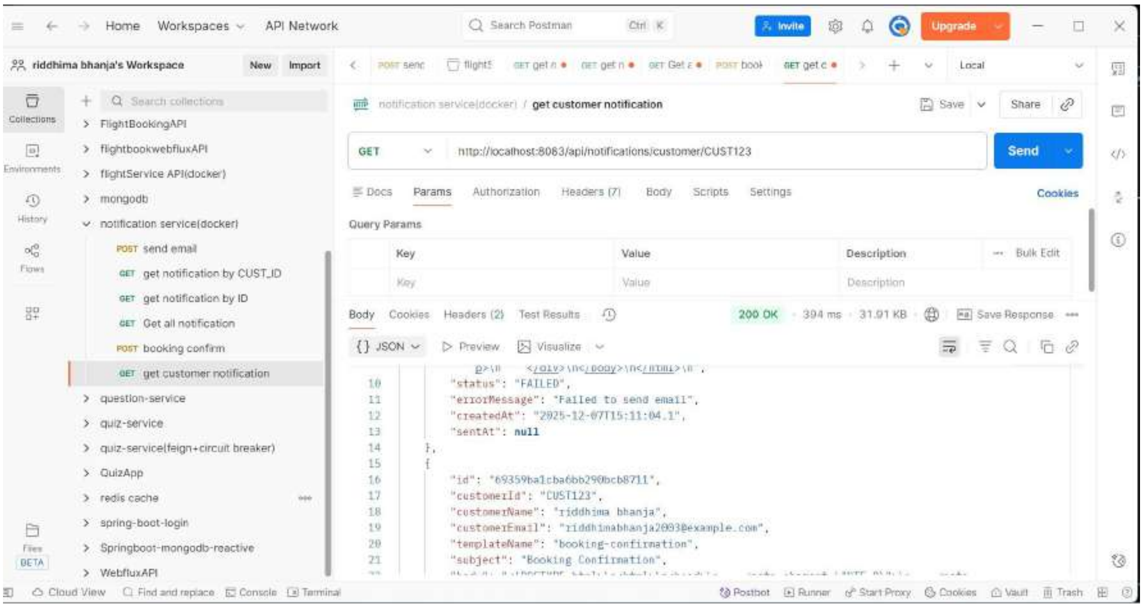
GET http://localhost:8083/api/notifications/all

Send

200 OK · 117 ms · 46.5 KB

```
    },
    {
        "id": "69359bdbcba6bb290bcb8712",
        "customerId": "CUST123",
        "customerName": "riddhima bhanja",
        "customerEmail": "riddhimabhanja2003@example.com",
        "templateName": "booking-confirmation",
        "subject": "Booking Confirmation",
        "body": "<!DOCTYPE html>\n<html>\n<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,
            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: #4CAF50;\n            color: white;
            \n            padding: 20px;\n            text-align: center;\n            border-radius:
            5px 5px 0 0;\n        }\n        .content {\n            background-color: #f9f9f9;
```

GET CUSTOMER NOTIFICATION



notification service(docker) / get customer notification

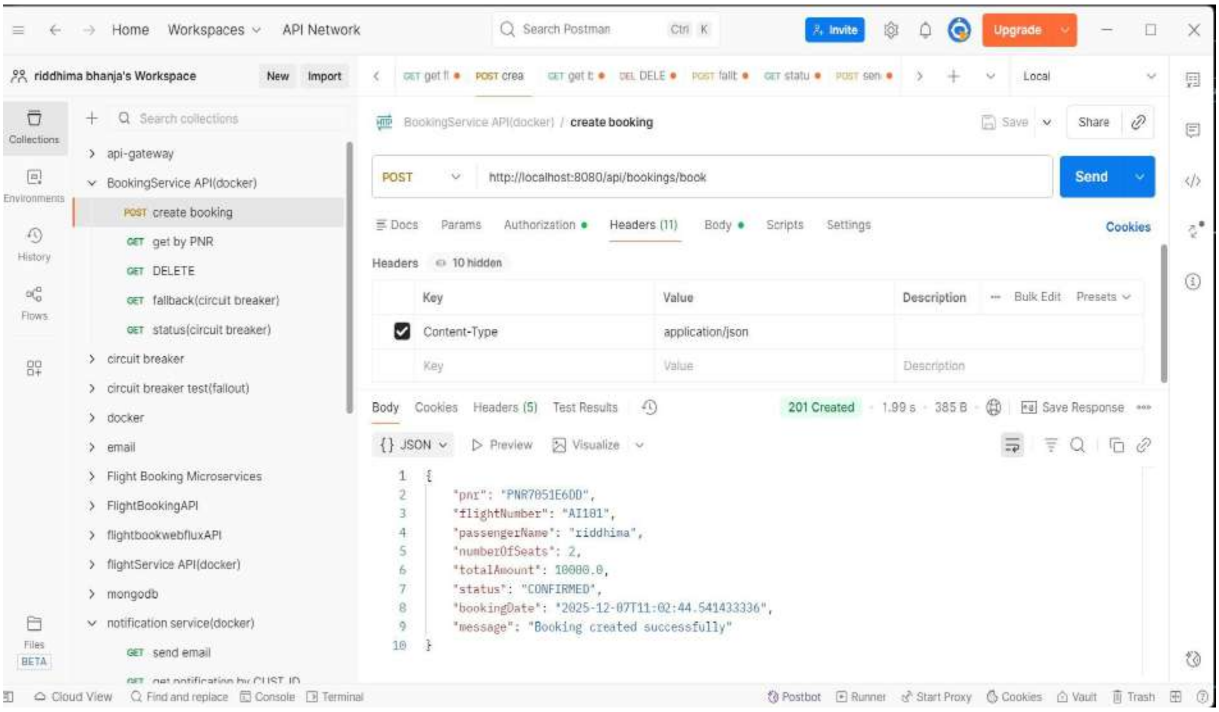
GET http://localhost:8083/api/notifications/customer/CUST123

Send

200 OK · 394 ms · 31.91 KB

```
            p>\n    </div>\n</body>\n</html>\n",
        "status": "FAILED",
        "errorMessage": "Failed to send email",
        "createdAt": "2025-12-07T15:11:04.1",
        "sentAt": null
    },
    {
        "id": "69359ba1cba6bb290bcb8711",
        "customerId": "CUST123",
        "customerName": "riddhima bhanja",
        "customerEmail": "riddhimabhanja2003@example.com",
        "templateName": "booking-confirmation",
        "subject": "Booking Confirmation",
```

CREATE BOOKING



riddhima bhanja's Workspace

BookingService API(docker) / create booking

POST http://localhost:8080/api/bookings/book

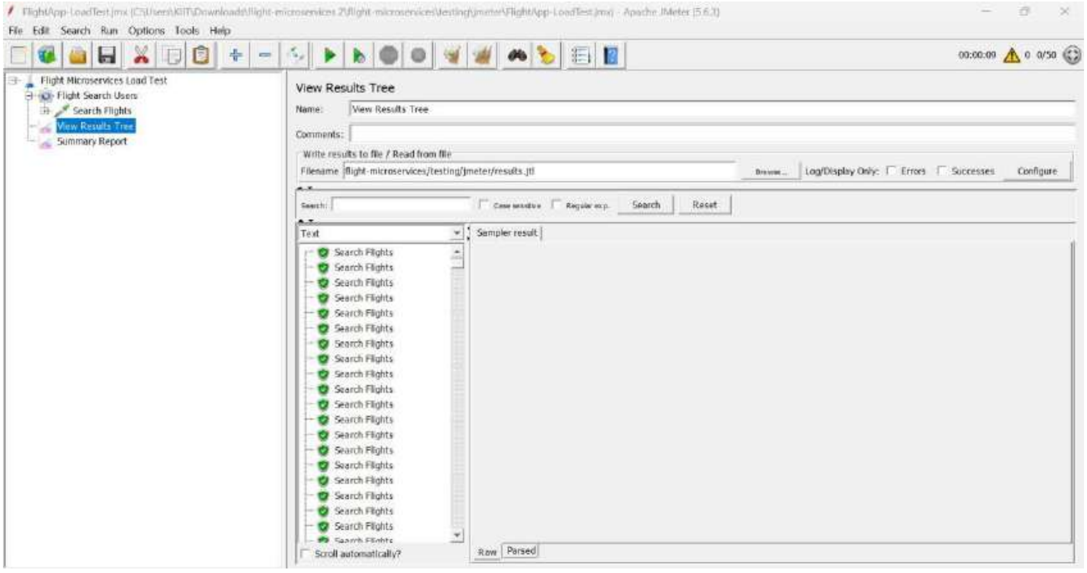
Headers (11)

Key	Value	Description
☑ Content-Type	application/json	

201 Created · 1.99 s · 385 B

```
{
    "pnr": "PNR7051E6DD",
    "flightNumber": "AI101",
    "passengerName": "riddhima",
    "numberOfSeats": 2,
    "totalAmount": 10000.0,
    "status": "CONFIRMED",
    "bookingDate": "2025-12-07T11:02:44.541433336",
    "message": "Booking created successfully"
}
```

- Jmeter result tree



Flight Microservices Load Test
Flight Search Users
Search Flights
View Results Tree
Summary Report

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename: flight-microservices/testing/jmeter/results.jtl

Log/Display Only: □ Errors □ Successes

00:00:09 0 0/50

Text

Search Flights
Search Flights
Search Flights
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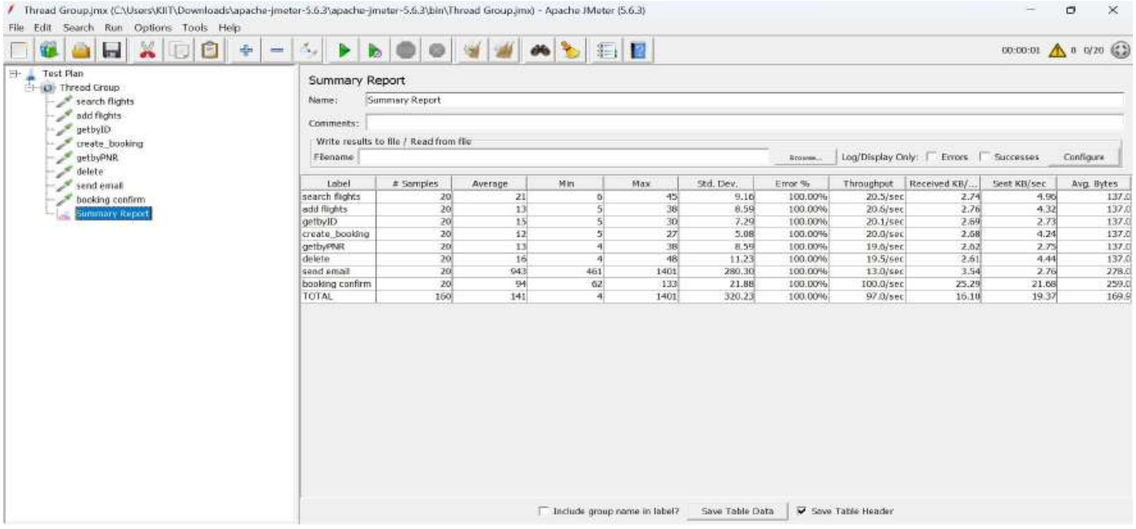
□ Scroll automatically?

- ## Jmeter Summary report

20 Requests



Summary Report

Name: Summary Report

Comments:

Write results to file / Read from file

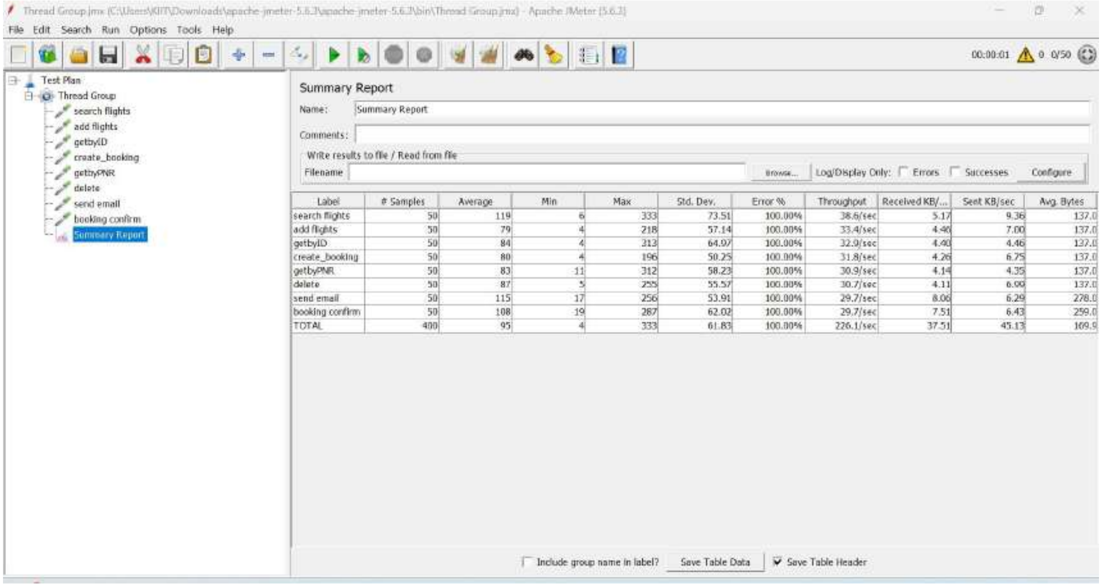
Filename

Log/Display Only: □ Errors □ Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
search flights	20	21	6	45	9.16	100.00%	20.5/sec	2.74	4.96	137.0
add flights	20	13	5	38	8.59	100.00%	20.6/sec	2.76	4.32	137.0
getbyID	20	15	5	30	7.29	100.00%	20.1/sec	2.69	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	25.29	21.68	259.0
TOTAL	160	141	4	1401	320.23	100.00%	97.0/sec	16.10	19.37	169.9

□ Include group name in label? ☑ Save Table Header

50 Requests



Summary Report

Name: Summary Report

Comments:

Write results to file / Read from file

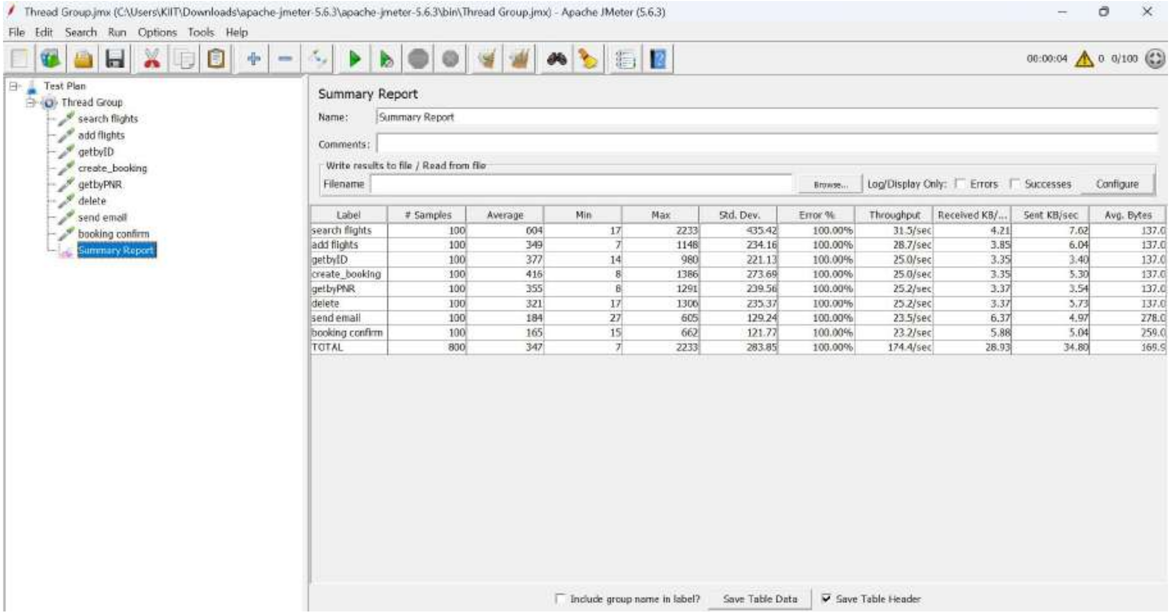
Filename

Log/Display Only: □ Errors □ Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
search flights	50	119	6	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	4.46	7.00	137.0
getbyID	50	84	4	313	64.97	100.00%	32.9/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	312	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	6.99	137.0
send email	50	115	17	256	53.91	100.00%	29.7/sec	8.06	6.29	278.0
booking confirm	50	108	19	287	62.02	100.00%	29.7/sec	7.51	6.43	259.0
TOTAL	400	95	4	333	61.83	100.00%	226.1/sec	37.51	45.13	169.9

□ Include group name in label? ☑ Save Table Header

100 Requests



Thread Group.jmx (C:\Users\KIIT\Downloads\apache-jmeter-5.6.3\apache-jmeter-5.6.3\bin\Thread Group.jmx) - Apache JMeter (5.6.3)

Summary Report

Name: Summary Report

Comments:

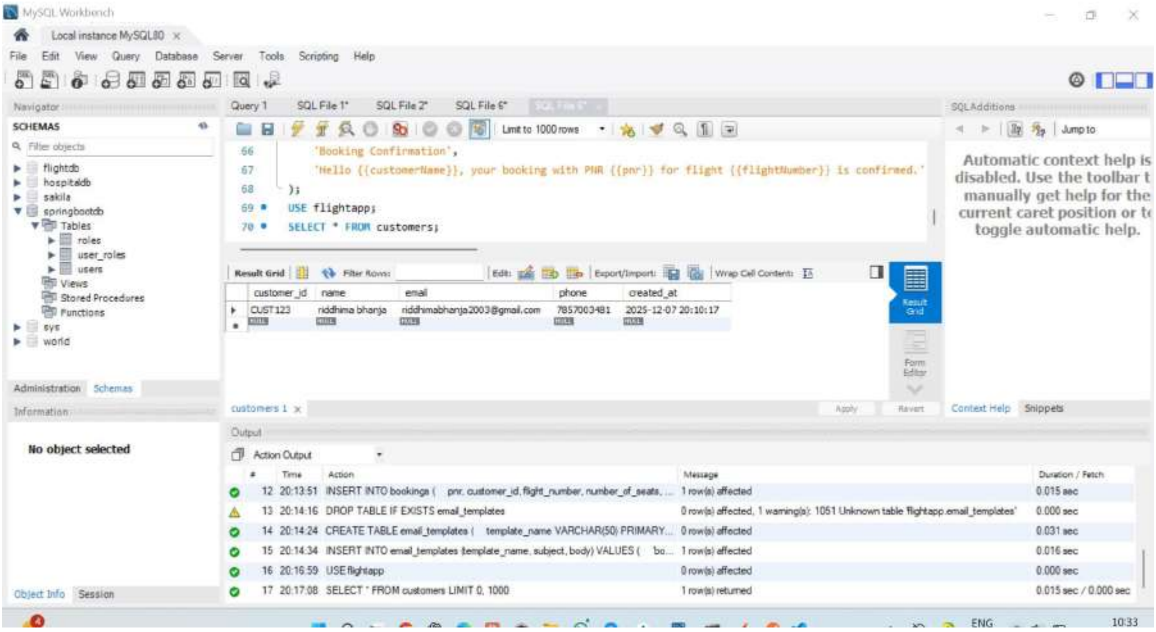
Write results to file / Read from file

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	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	1306	235.37	100.00%	25.2/sec	3.37	5.73	137.0
send email	100	184	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	5.88	5.04	259.0
TOTAL	800	347	7	2233	283.85	100.00%	174.4/sec	28.93	34.80	169.9

□ Include group name in label? Save Table Data ☑ Save Table Header

MySQL Workbench



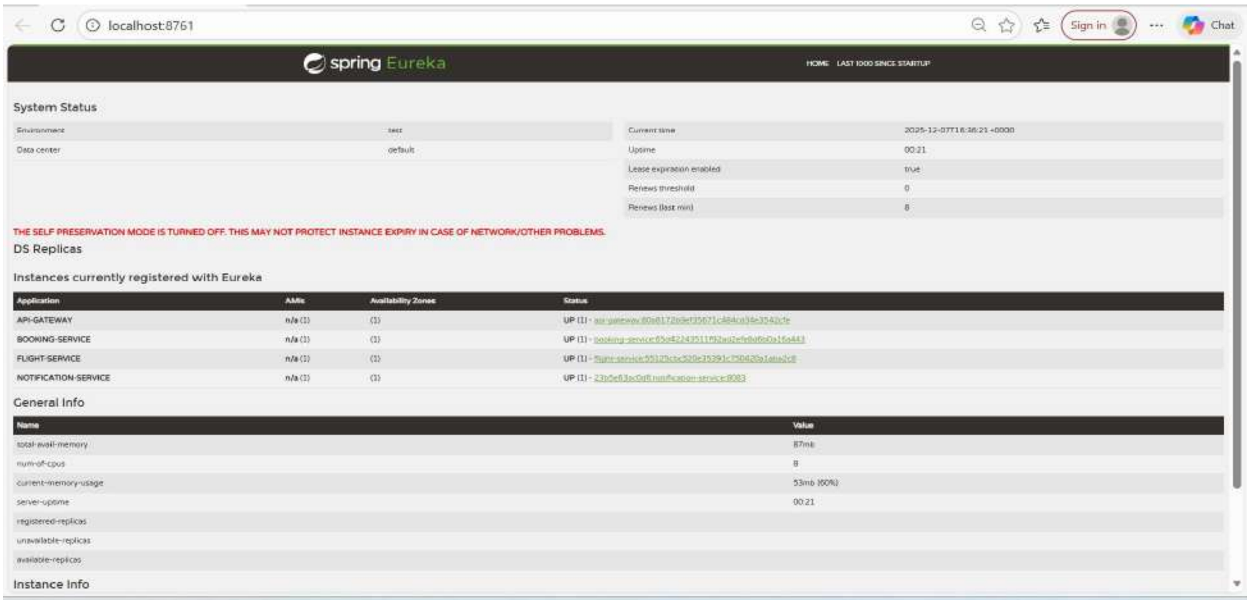
```
        'Booking Confirmation',
        'Hello {{customerName}}, your booking with PNR {{pnr}} for flight {{flightNumber}} is confirmed.'
);
USE flightapp;
SELECT * FROM customers;
```

customer_id	name	email	phone	created_at
CUST123	riddhima bhanja	riddhimabhanja2003@gmail.com	7857003481	2025-12-07 20:10:17
NULL	NULL	NULL	NULL	NULL

Automatic context help is disabled. Use the toolbar t
manually get help for the
current caret position or t
toggle automatic help.

```
 #   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



System Status

Environment	test
Data center	default

Current time	2025-12-07T16:36:21 +0000
Uptime	00:21
Lease expiration enabled	true
Renews threshold	0
Renews (last min)	8

THE SELF PRESERVATION MODE IS TURNED OFF. THIS MAY NOT PROTECT INSTANCE EXPIRY IN CASE OF NETWORK/OTHER PROBLEMS.

DS Replicas

Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
API-GATEWAY	n/a (1)	(1)	UP (1) - api-gateway:80e8172b9ef35671c484ca34e3542cfe
BOOKING-SERVICE	n/a (1)	(1)	UP (1) - booking-service:65d42243511f92ad2efe8d6b0a16a443
FLIGHT-SERVICE	n/a (1)	(1)	UP (1) - flight-service:55125cbc520e35391c750420a1aba2c8
NOTIFICATION-SERVICE	n/a (1)	(1)	UP (1) - 23b5e63ac0d8:notification-service:8083

General Info

Name	Value
total-avail-memory	87mb
num-of-cpus	8
current-memory-usage	53mb (60%)
server-uptime	00:21
registered-replicas	
unavailable-replicas	
available-replicas	

Instance Info