# **Banking Application**

### Backend:

### **Customer Service**

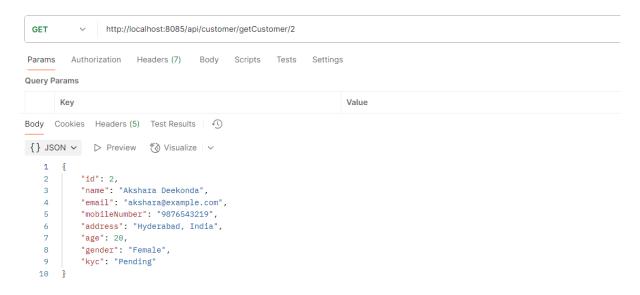
("/api/customer")

**Endpoints:** 

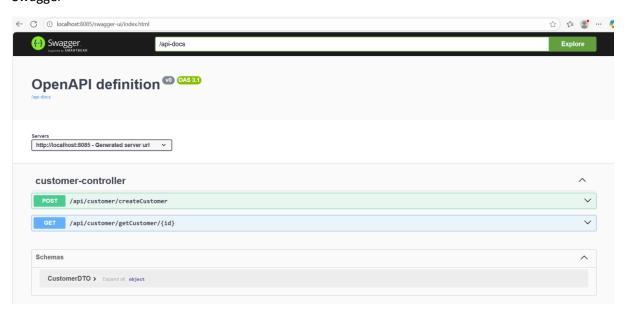
@PostMapping("/createCustomer")

```
http://localhost:8085/api/customer/createCustomer
Params Authorization Headers (9) Body • Scripts Tests Settings
○ none ○ form-data ○ x-www-form-urlencoded ○ raw ○ binary ○ GraphQL JSON ∨
  1 {
       "name":"Agasthya N",
  2
  3 "email": "aggu@example.com",
  4 "mobileNumber": "4567891230",
  5
       "address": "Hyderabad, India",
       "age": 20,
  6
       "gender": "Male",
      "kyc": "VERIFIED"
  8
Body Cookies Headers (5) Test Results
{} JSON ✓ ▷ Preview 🍪 Visualize ✓
   1 {
          "id": 5,
   2
          "name": "Agasthya N",
   3
          "email": "aggu@example.com",
         "mobileNumber": "4567891230",
   5
         "address": "Hyderabad, India",
          "gender": "Male",
   9
          "kyc": "VERIFIED"
  10 }
```

### @GetMapping("/getCustomer/{id}")



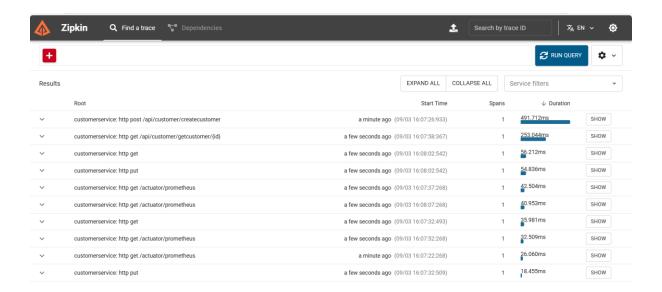
### Swagger

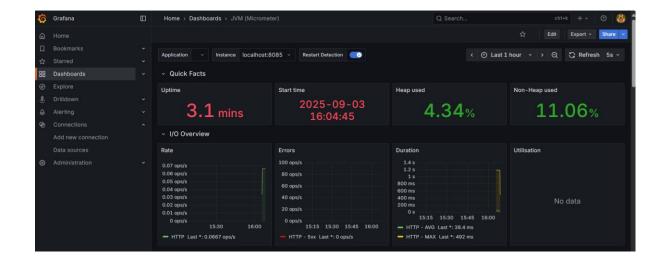


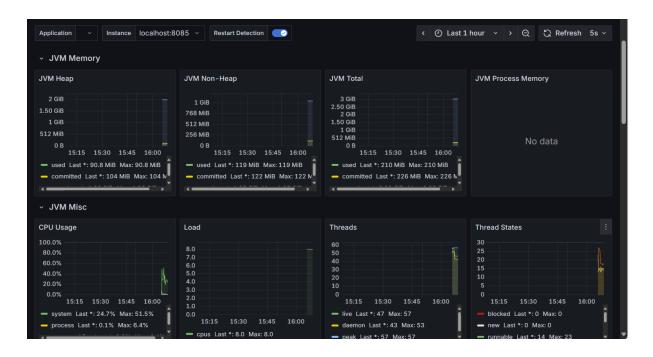
### Api-docs

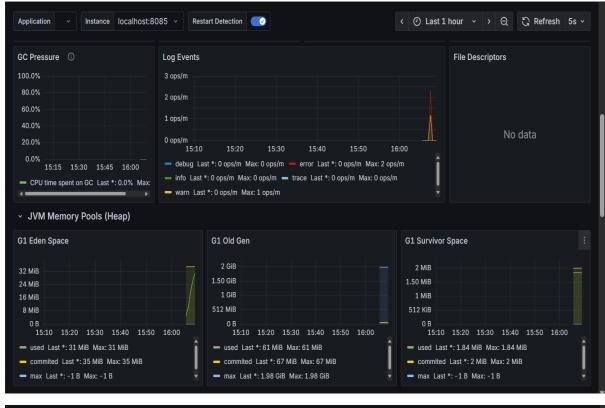


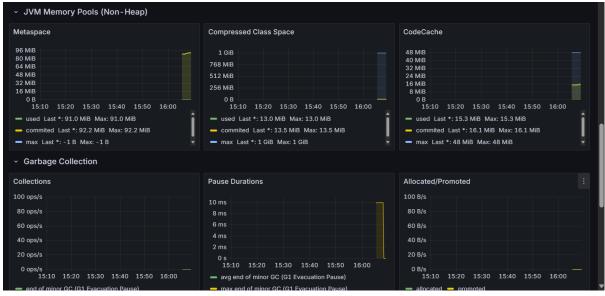
### ZipKin

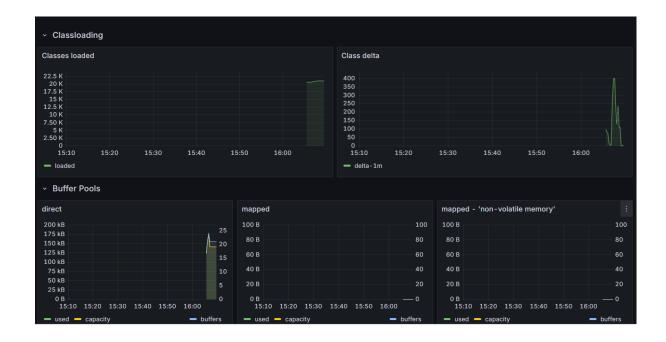












### **Account Service**

("/api/accounts")

**Endpoints:** 

@PostMapping("/saveAccount")

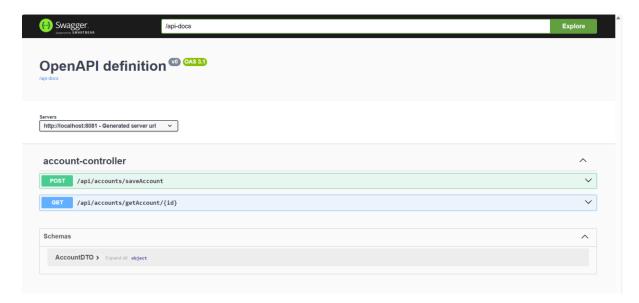
```
√ localhost:8081/api/accounts/saveAccount

 POST
Params Authorization Headers (9) Body • Scripts Tests Settings
○ none ○ form-data ○ x-www-form-urlencoded ○ raw ○ binary ○ GraphQL JSON ∨
   2
           "customerId": 2,
   3
           "userName": "Akshara Deekonda",
           "panCardNum": "ACBDE345H",
          "aadhaarCardNum": "123443212341",
"accountNumber": "12345567823",
"accountType": "SAVINGS",
          "balance": 10000.00,
"loan": 0.00
   8
  10
Body Cookies Headers (5) Test Results
{} JSON ✓ ▷ Preview 🖔 Visualize ✓
               "id": 3,
               "customerId": 2,
               "userName": "Akshara Deekonda",
"panCardNum": "ACBDE345H",
              pantarunum: ACBUE345H,
"aadhaarCardNum": "123443212341",
"accountNumber": "12345567823",
"accountType": "SAVINGS",
"balance": 10000.0,
              "loan": 0.0
    10
```

### @GetMapping("/getAccount/{id}")

```
GET
           localhost:8081/api/accounts/getAccount/1
Params Authorization Headers (7) Body Scripts Tests Settings
Query Params
                                                                                                                                                    Descri
Body Cookies Headers (5) Test Results
{} JSON ✓ ▷ Preview 🍪 Visualize ✓
             "id": 1,
    3
             "customerId": 1,
             "userName": "Archana Venna",
"panCardNum": "ABCDE1234F",
             "aadhaarCardNum": "123412341234",
"accountNumber": "9876543210",
             "accountType": "SAVINGS", "balance": 5000.0,
    9
             "loan": 0.0
   10
   11
```

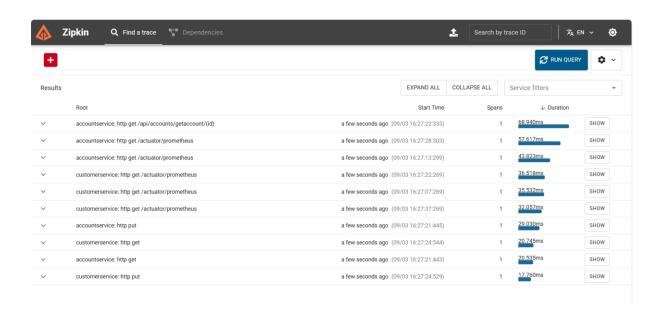
#### Swagger

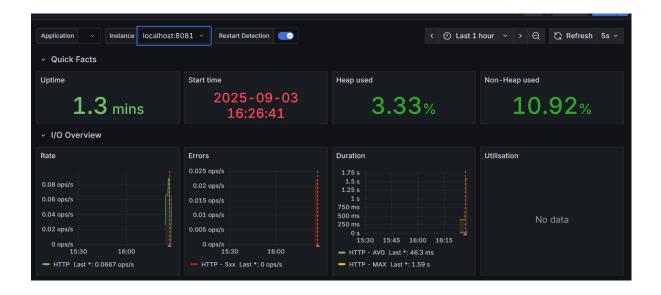


### Api-docs



### Zipkin

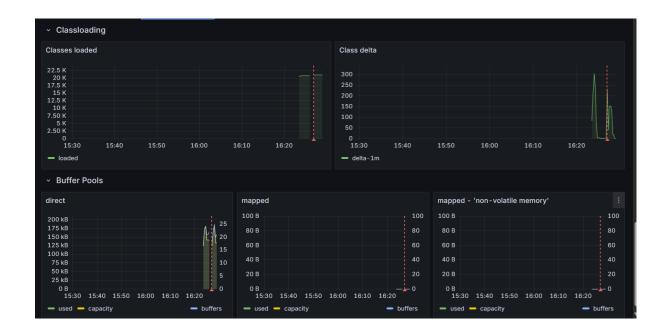










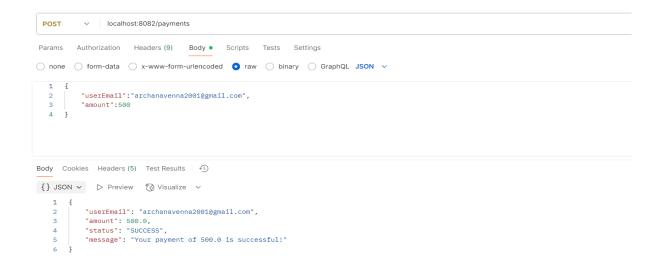


# Payment Services ----->Notification Service (Using Kafka)

Kafka can be used to **publish events** like user registrations or order updates to a topic, and a **consumer service** can process these events to send **email notifications**.

This makes the notification system **scalable**, **asynchronous**, **and loosely coupled** from the main application.

@PostMapping("/payments")



### Email using smtp

# Payment Status - SUCCESS Inbox x



Your payment of 500.0 is successful!

Amount: 500.0

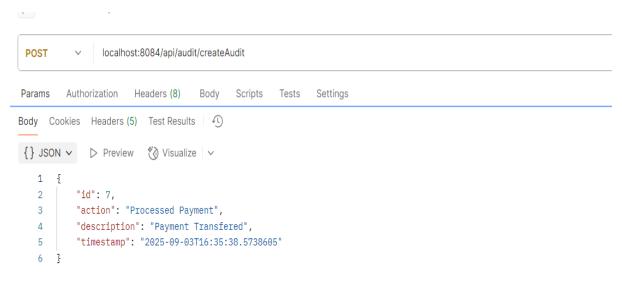


## **AuditLog Service**

("/api/audit")

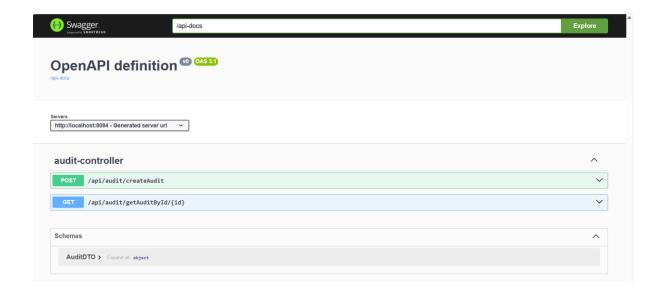
### Endpoint:

### @PostMapping("/createAudit")



### @GetMapping("/getAuditById/{id}")

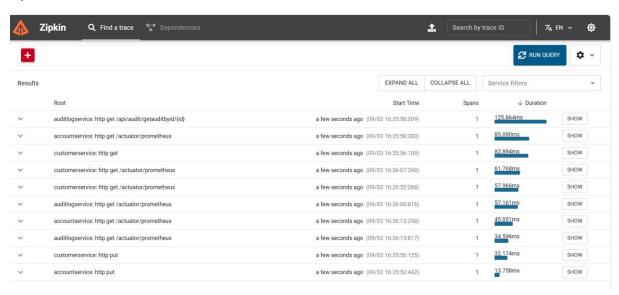
```
GET
                localhost:8084/api/audit/getAuditByld/7
Params
         Authorization Headers (7)
                                          Scripts
                                                            Settings
                                    Body
                                                     Tests
Body Cookies Headers (5) Test Results
{} JSON ∨
              ▷ Preview ﴿ Visualize ∨
   1
       £
           "id": 7,
   2
   3
           "action": "Processed Payment",
           "description": "Payment Transfered",
   4
           "timestamp": "2025-09-03T16:35:38.573861"
   5
```

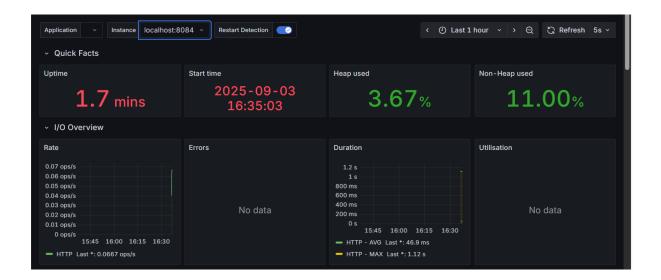


### Api-docs

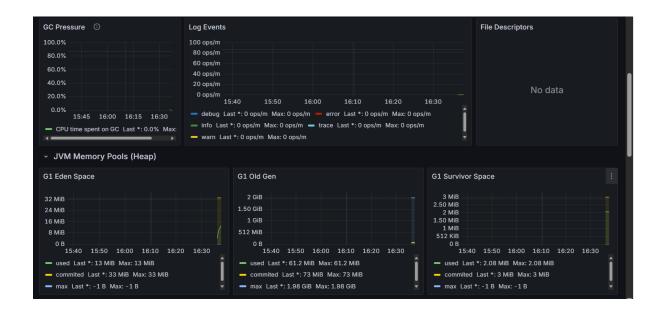


### Zipkin

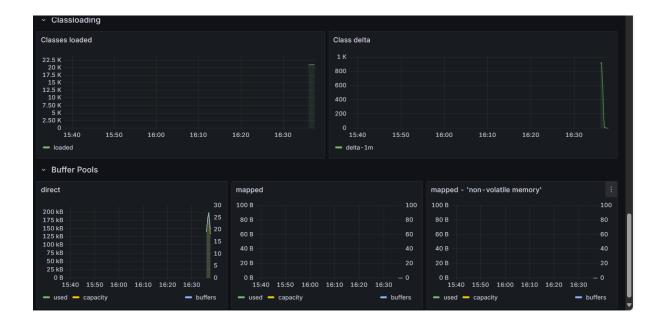








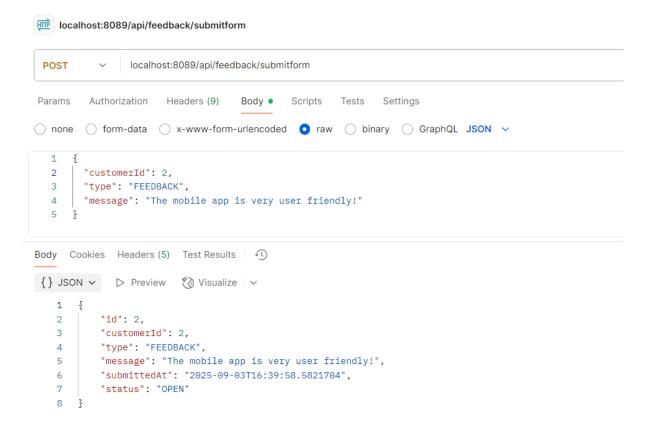




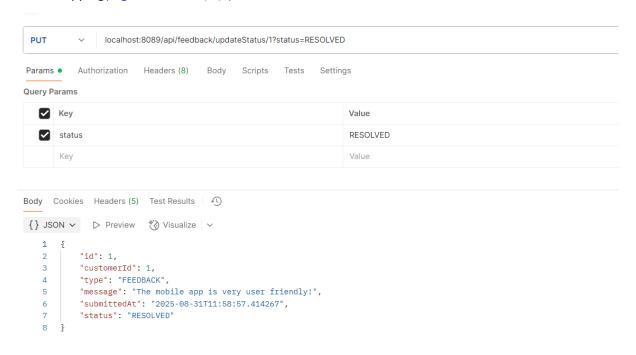
### FeedBack Service

("/api/feedback")

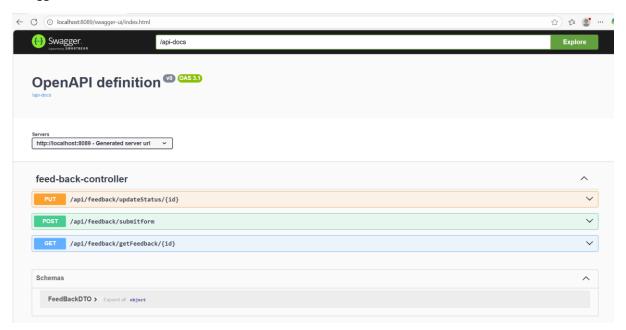
**Endpoints:** 



### @GetMapping("/getFeedback/{id}")



#### Swagger



### Api-docs



### Zipkin

