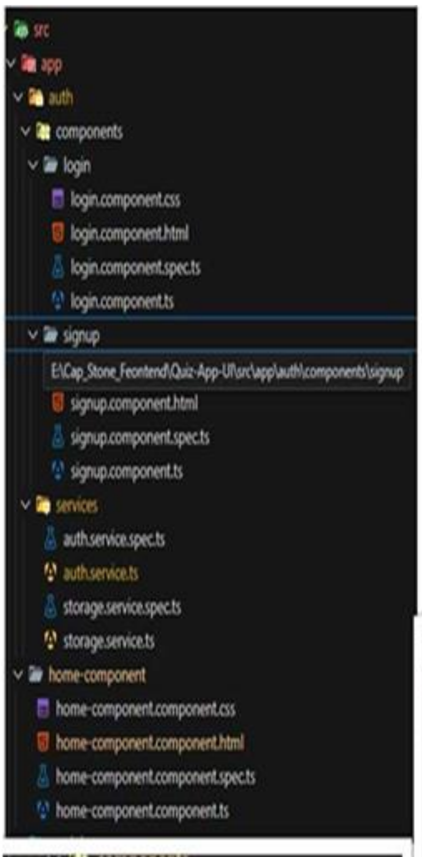
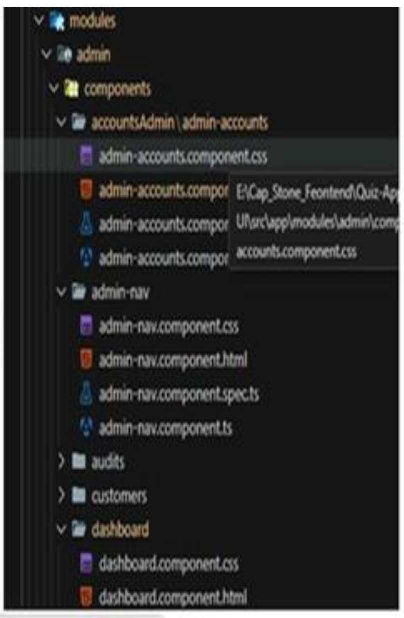
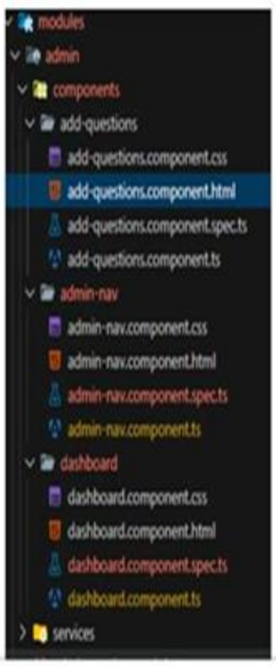
Angular Folder Structure



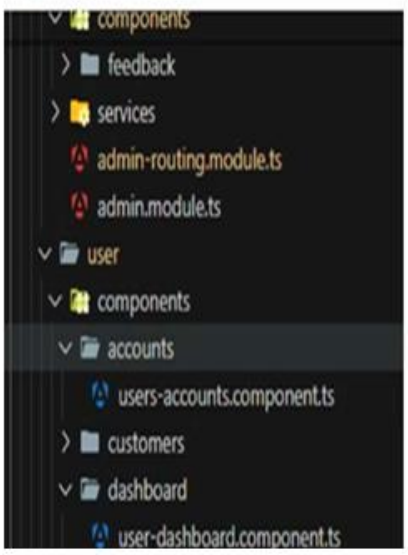
```
src
  app
    auth
      components
        login
          login.component.css
          login.component.html
          login.component.spec.ts
          login.component.ts
        signup
          E:\Cap_Stone_Feontend\Quiz-App-UI\src\app\auth\components\signup
          signup.component.html
          signup.component.spec.ts
          signup.component.ts
      services
        auth.service.spec.ts
        auth.service.ts
        storage.service.spec.ts
        storage.service.ts
    home-component
      home-component.component.css
      home-component.component.html
      home-component.component.spec.ts
      home-component.component.ts
```



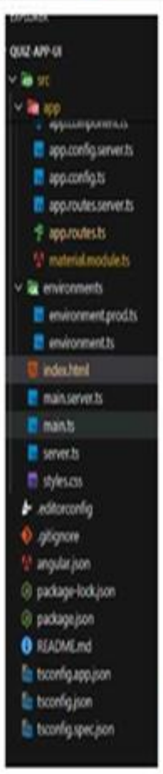
```
modules
  admin
    components
      accountsAdmin \ admin-accounts
        admin-accounts.component.css
        admin-accounts.compo  E:\Cap_Stone_Feontend\Quiz-Ap
        admin-accounts.compo  UI\src\app\modules\admin\comp
        admin-accounts.compo  accounts.component.css
      admin-nav
        admin-nav.component.css
        admin-nav.component.html
        admin-nav.component.spec.ts
        admin-nav.component.ts
      audits
      customers
      dashboard
        dashboard.component.css
        dashboard.component.html
```



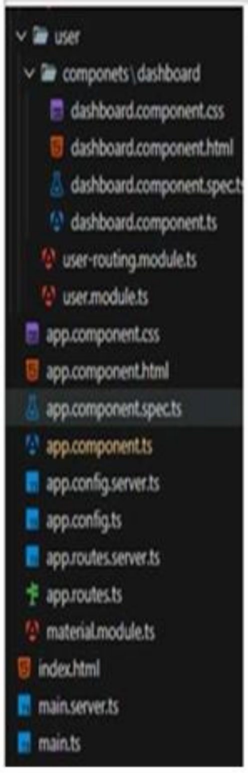
```
modules
  admin
    components
      add-questions
        add-questions.component.css
        add-questions.component.html
        add-questions.component.spec.ts
        add-questions.component.ts
      admin-nav
        admin-nav.component.css
        admin-nav.component.html
        admin-nav.component.spec.ts
        admin-nav.component.ts
      dashboard
        dashboard.component.css
        dashboard.component.html
        dashboard.component.spec.ts
        dashboard.component.ts
    services
```



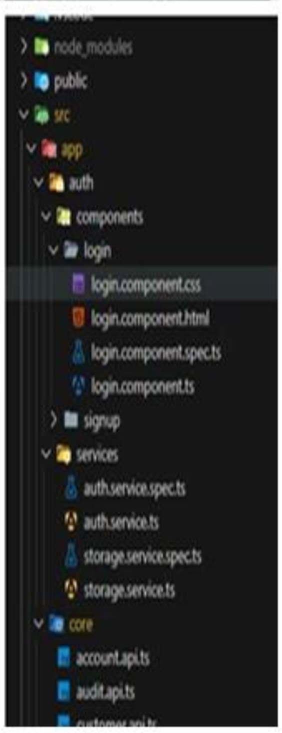
```
    components
      feedback
      services
      admin-routing.module.ts
      admin.module.ts
  user
    components
      accounts
        users-accounts.component.ts
      customers
      dashboard
        user-dashboard.component.ts
```



```
EXPLORER
QUIZ-APP-UI
  src
    app
      app.component.ts
      app.config.server.ts
      app.config.ts
      app.routes.server.ts
      app.routes.ts
      material.module.ts
    environments
      environment.prod.ts
      environment.ts
    index.html
    main.server.ts
    main.ts
    server.ts
    styles.css
  .editorconfig
  .gitignore
  angular.json
  package-lock.json
  package.json
  README.md
  tsconfig.app.json
  tsconfig.json
  tsconfig.spec.json
```

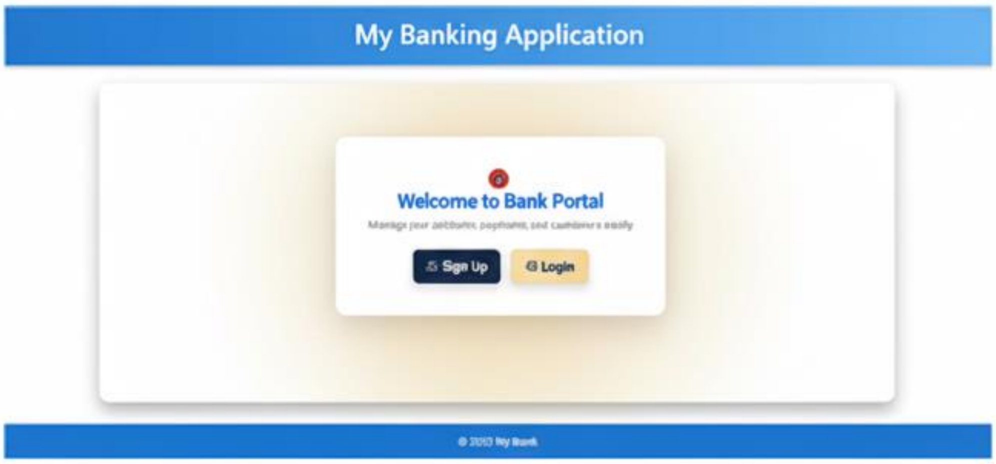


```
  user
    componets \ dashboard
      dashboard.component.css
      dashboard.component.html
      dashboard.component.spec.ts
      dashboard.component.ts
    user-routing.module.ts
    user.module.ts
  app.component.css
  app.component.html
  app.component.spec.ts
  app.component.ts
  app.config.server.ts
  app.config.ts
  app.routes.server.ts
  app.routes.ts
  material.module.ts
index.html
main.server.ts
main.ts
```

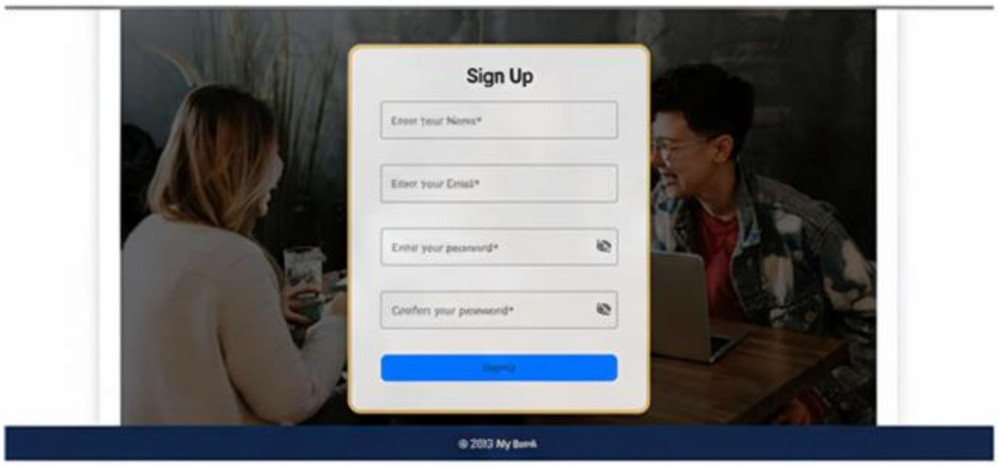


```
node_modules
public
src
  app
    auth
      components
        login
          login.component.css
          login.component.html
          login.component.spec.ts
          login.component.ts
        signup
      services
        auth.service.spec.ts
        auth.service.ts
        storage.service.spec.ts
        storage.service.ts
    core
      account.api.ts
      audit.api.ts
      customer.api.ts
```

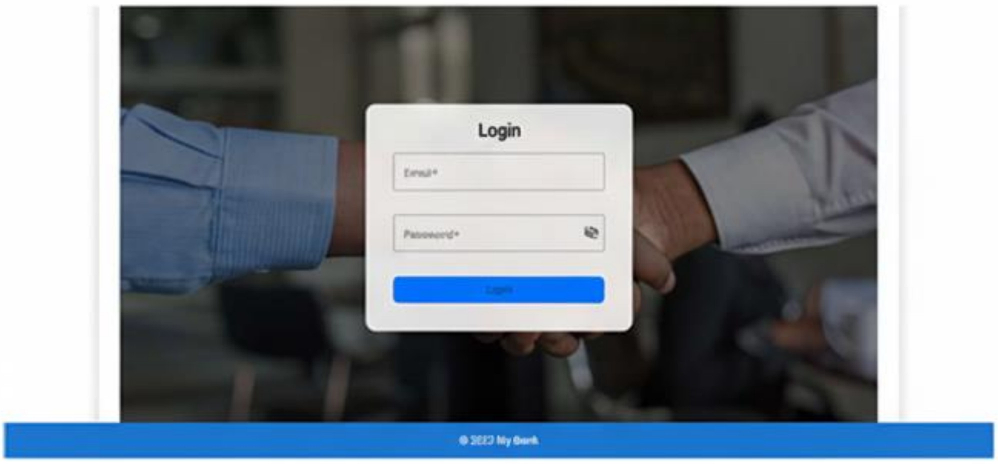
HOME PAGE:



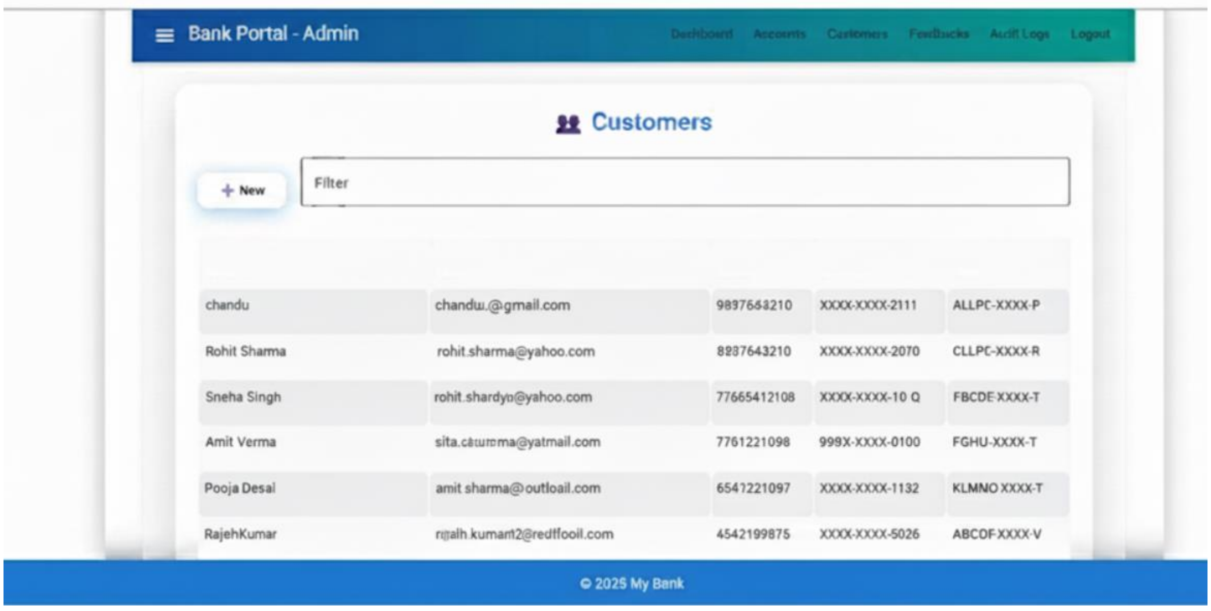
SIGNUP PAGE:



LOGIN PAGE:

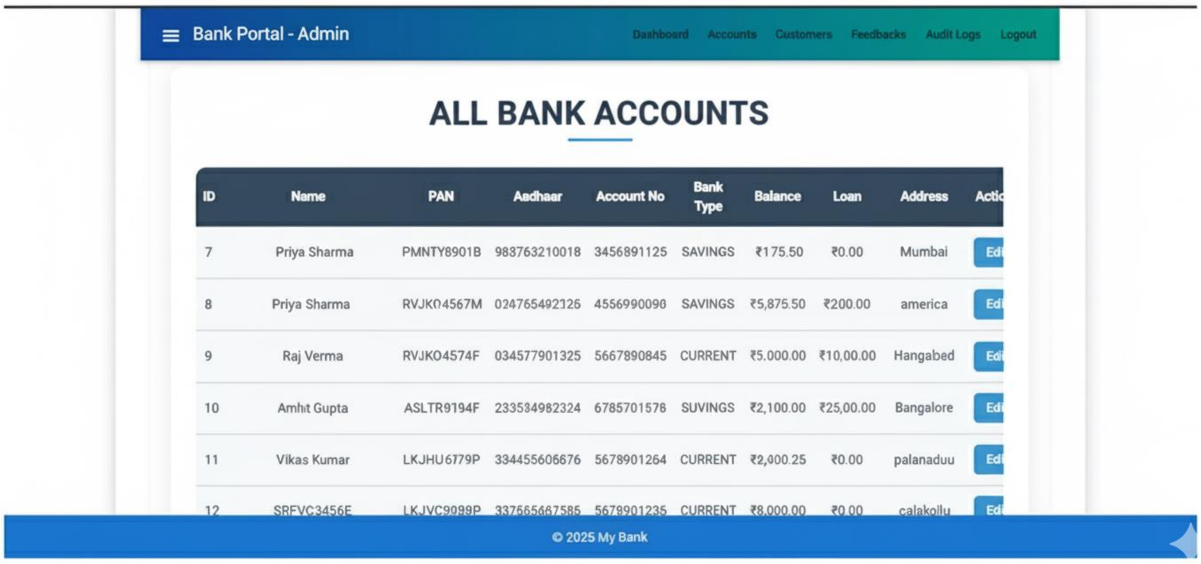


Admin Component View:-



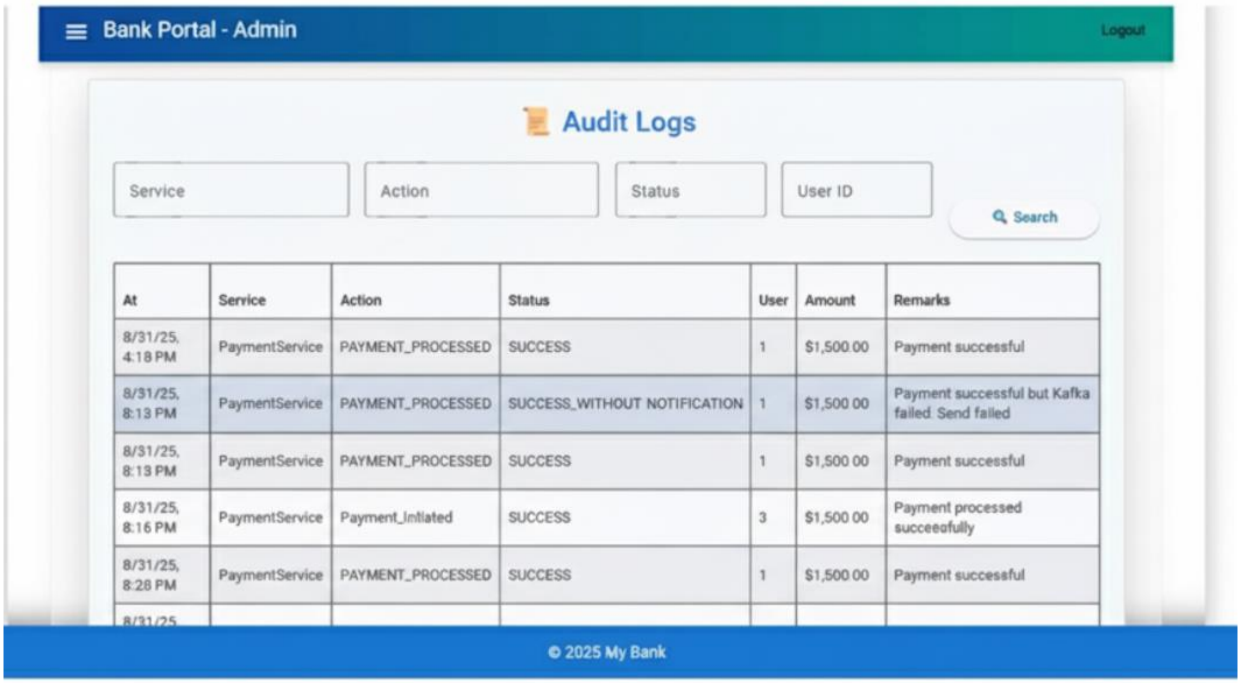
chandu	chandu.@gmail.com	9837643210	XXXX-XXXX-2111	ALLPC-XXXX-P
Rohit Sharma	rohit.sharma@yahoo.com	8237643210	XXXX-XXXX-2070	CLLPC-XXXX-R
Sneha Singh	rohit.shardyo@yahoo.com	77665412108	XXXX-XXXX-10 Q	FBCDE-XXXX-T
Amit Verma	sita.cawmma@yatmail.com	7761221098	999X-XXXX-0100	FGHU-XXXX-T
Pooja Desal	amit sharma@outloail.com	6541221097	XXXX-XXXX-1132	KLMNO XXXX-T
RajehKumar	rgalh.kumarl2@redtfooil.com	4542199875	XXXX-XXXX-5026	ABCOF-XXXX-V

ADMIN COMPONENTS VIEWS:



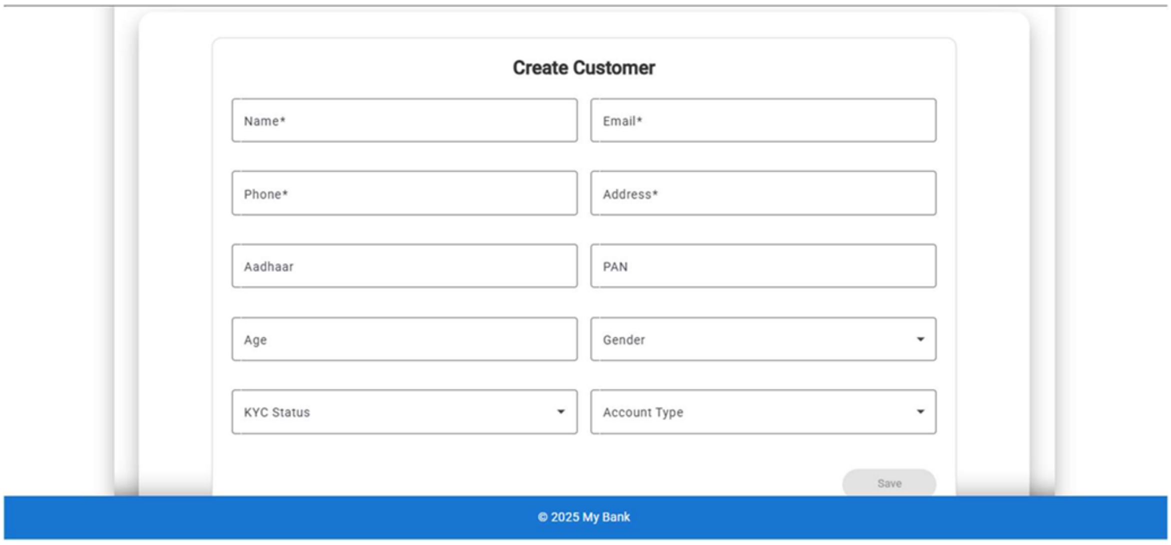
ALL BANK ACCOUNTS

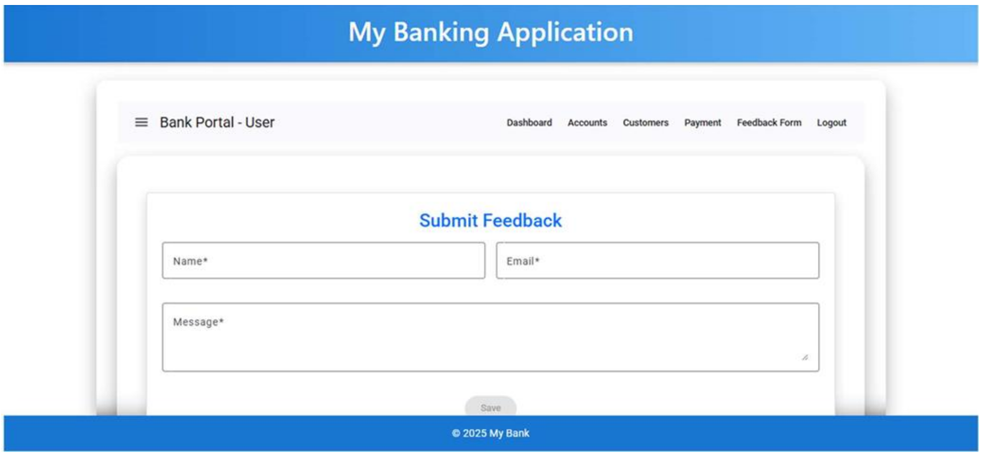
ID	Name	PAN	Aadhaar	Account No	Bank Type	Balance	Loan	Address	Actic
7	Priya Sharma	PMNTY8901B	983763210018	3456891125	SAVINGS	₹175.50	₹0.00	Mumbai	Edi
8	Priya Sharma	RVJK04567M	024765492126	4556990090	SAVINGS	₹5,875.50	₹200.00	america	Edi
9	Raj Verma	RVJKO4574F	034577901325	5667890845	CURRENT	₹5.000.00	₹10,00.00	Hangabed	Edi
10	Amhıt Gupta	ASLTR9194F	233534982324	6785701576	SUVINGS	₹2,100.00	₹25,00.00	Bangalore	Edi
11	Vikas Kumar	LKJHU6779P	334455606676	5678901264	CURRENT	₹2,400.25	₹0.00	palanaduu	Edi
12	SRFVC3456E	LKJVC9099P	337665667585	5678901235	CURRENT	₹8,000.00	₹0.00	calakollu	Edi

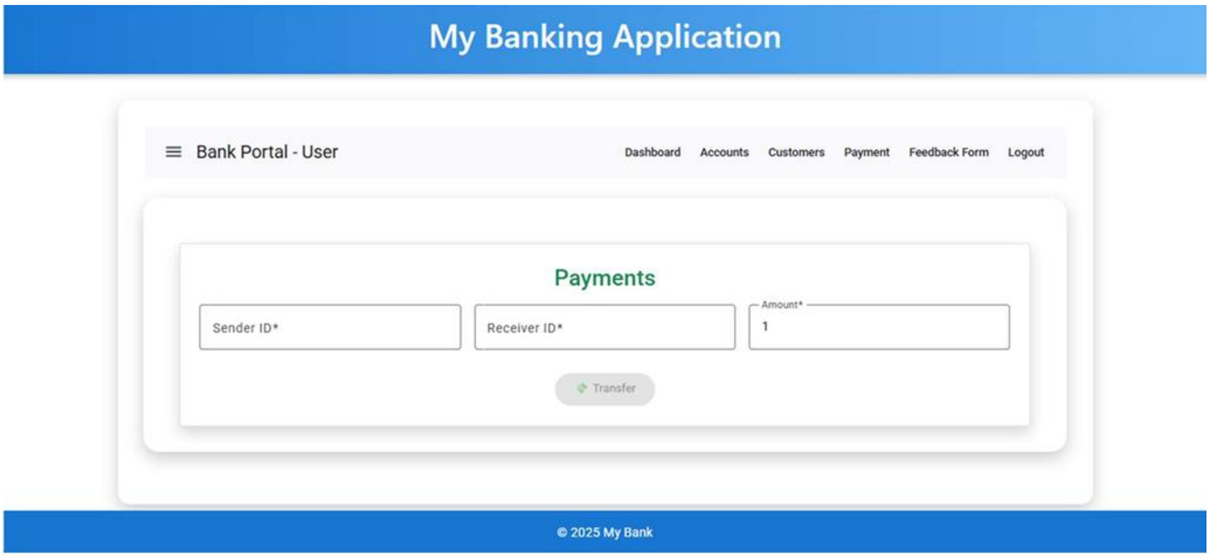


At	Service	Action	Status	User	Amount	Remarks
8/31/25, 4:18 PM	PaymentService	PAYMENT_PROCESSED	SUCCESS	1	$1,500.00	Payment successful
8/31/25, 8:13 PM	PaymentService	PAYMENT_PROCESSED	SUCCESS_WITHOUT NOTIFICATION	1	$1,500 00	Payment successful but Kafka failed. Send failed
8/31/25, 8:13 PM	PaymentService	PAYMENT_PROCESSED	SUCCESS	1	$1,500 00	Payment successful
8/31/25, 8:16 PM	PaymentService	Payment_Intiated	SUCCESS	3	$1,500 00	Payment processed succeeofully
8/31/25, 8:28 PM	PaymentService	PAYMENT_PROCESSED	SUCCESS	1	$1,500.00	Payment successful
8/31/25						

USER COMPONENTS VIEWS:






My Banking Application

Bank Portal - User

Dashboard Accounts Customers Payment Feedback Form Logout

Payments

Sender ID*

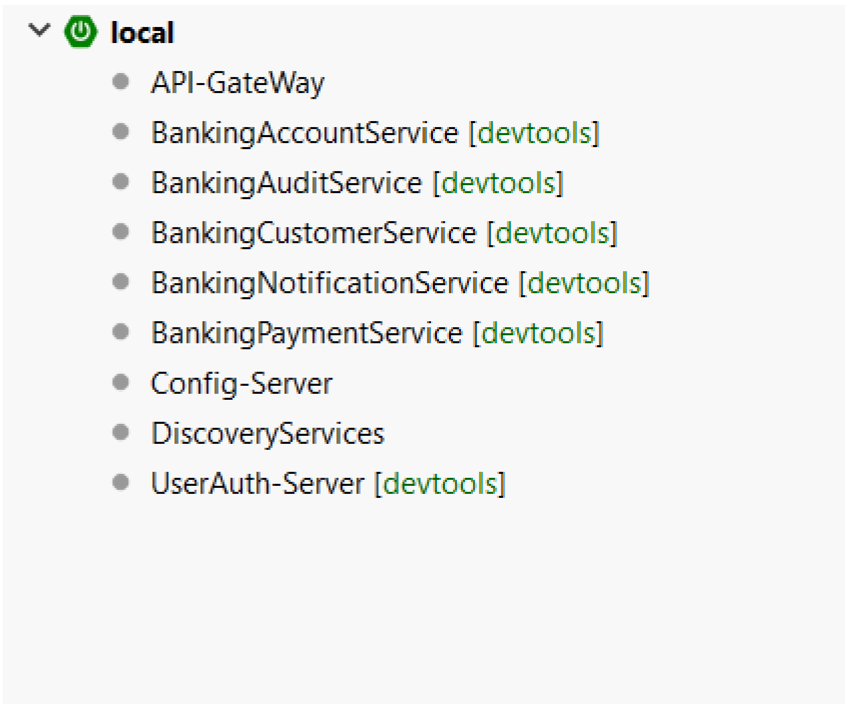
Receiver ID*

Amount*
1

Transfer

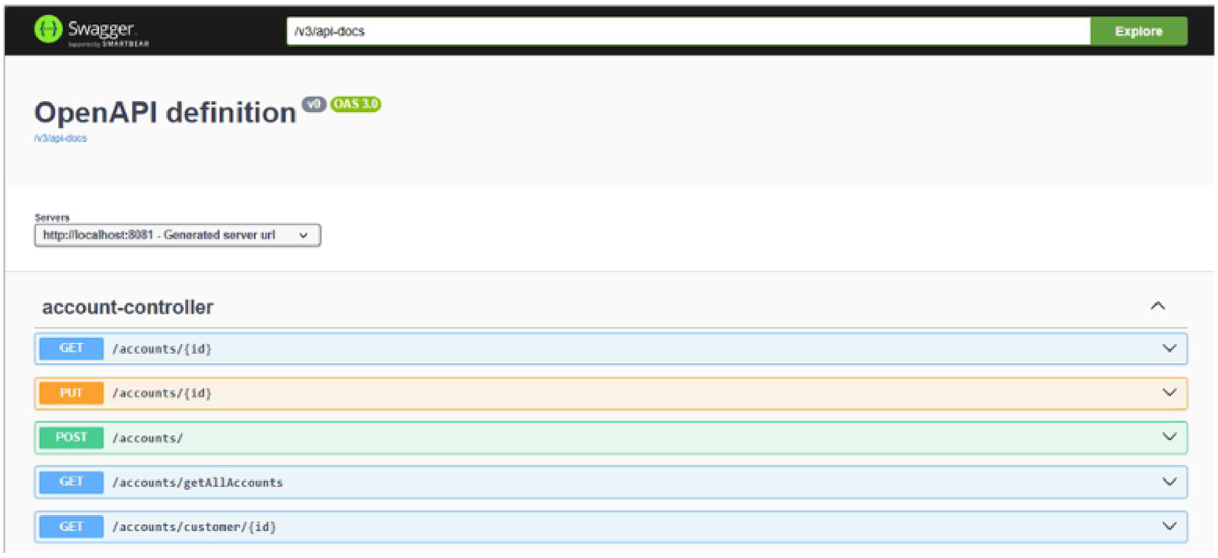
© 2025 My Bank

JAVA Spring boot Microservice's


local

- API-GateWay
- BankingAccountService [devtools]
- BankingAuditService [devtools]
- BankingCustomerService [devtools]
- BankingNotificationService [devtools]
- BankingPaymentService [devtools]
- Config-Server
- DiscoveryServices
- UserAuth-Server [devtools]

SWAGGER and ZIPKIN and PROMETHEUS and GRAFANA :

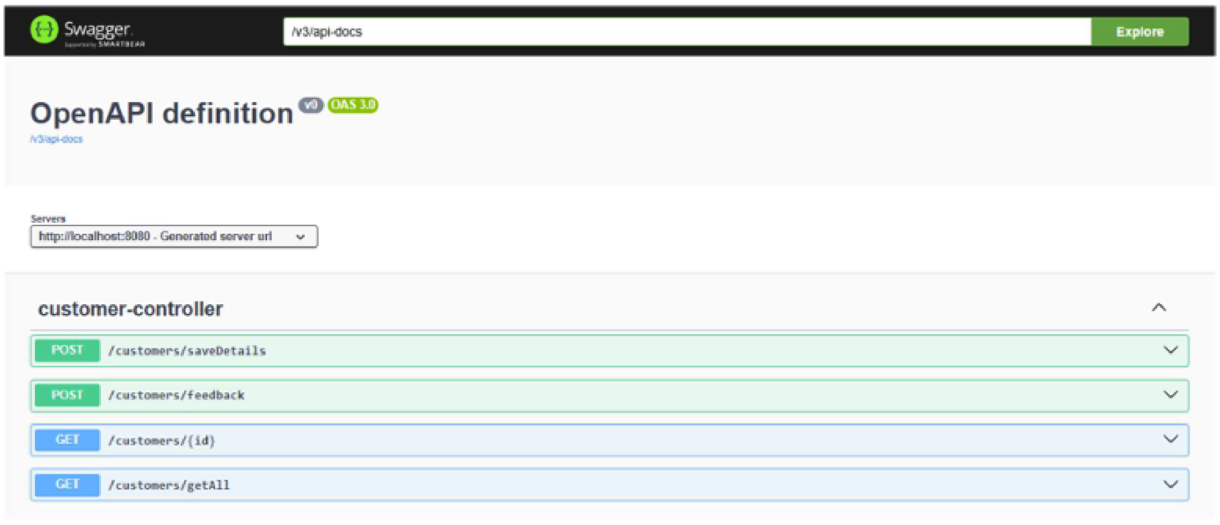


OpenAPI definition v0 OAS 3.0
/v3/api-docs

Servers
http://localhost:8081 - Generated server url

account-controller

GET /accounts/{id}
PUT /accounts/{id}
POST /accounts/
GET /accounts/getAllAccounts
GET /accounts/customer/{id}

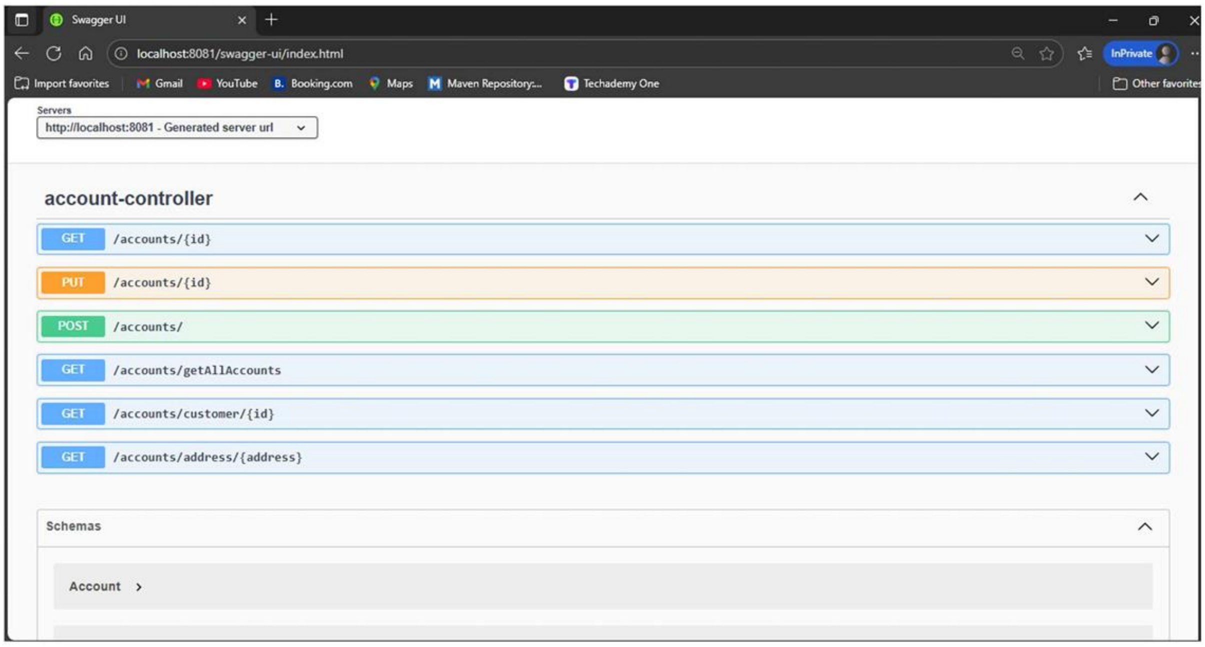


OpenAPI definition v0 OAS 3.0
/v3/api-docs

Servers
http://localhost:8080 - Generated server url

customer-controller

POST /customers/saveDetails
POST /customers/feedback
GET /customers/{id}
GET /customers/getAll



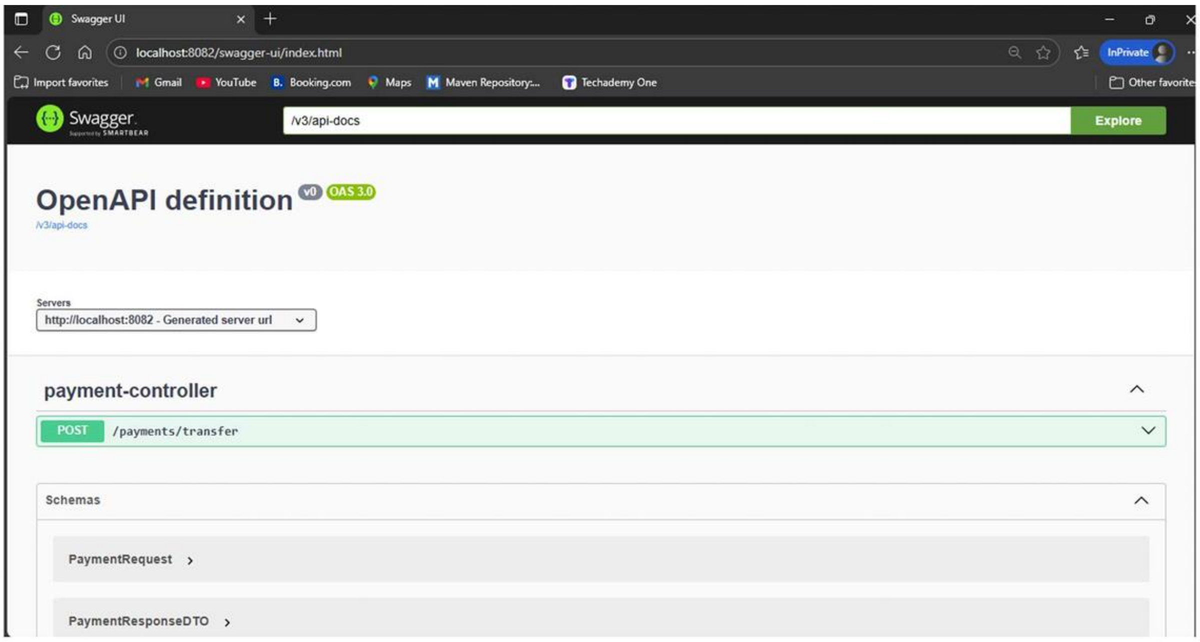
Servers
http://localhost:8081 - Generated server url

account-controller

GET /accounts/{id}
PUT /accounts/{id}
POST /accounts/
GET /accounts/getAllAccounts
GET /accounts/customer/{id}
GET /accounts/address/{address}

Schemas

Account >



OpenAPI definition v0 OAS 3.0

/v3/api-docs

Servers

http://localhost:8082 - Generated server url

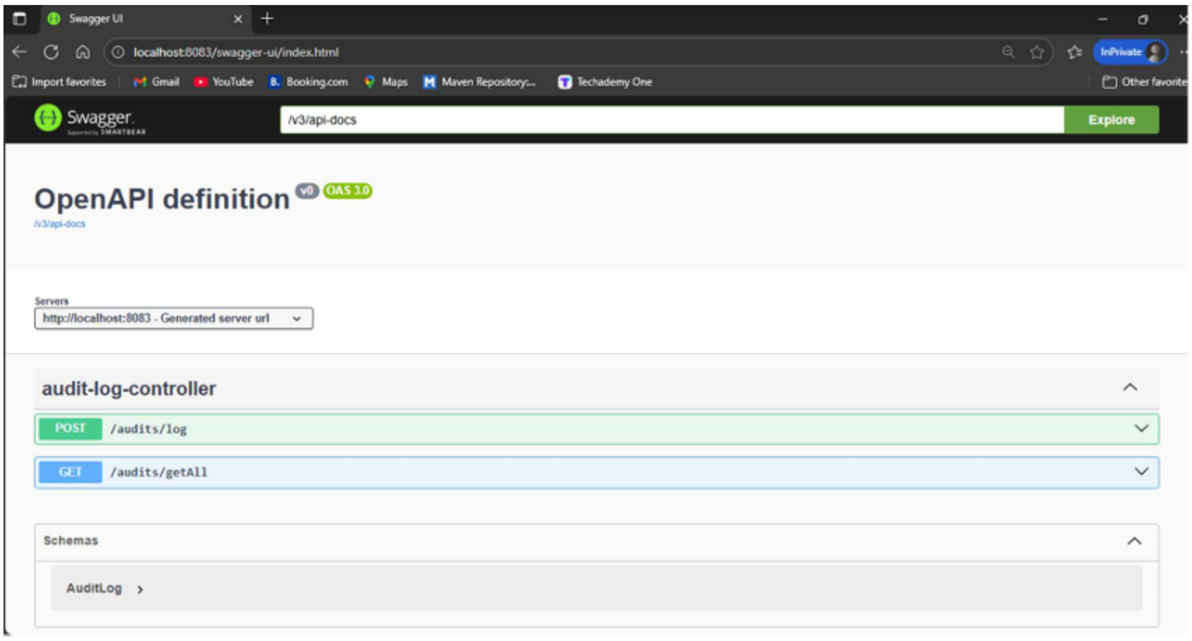
payment-controller

POST /payments/transfer

Schemas

PaymentRequest >

PaymentResponseDTO >



OpenAPI definition v0 OAS 3.0

/v3/api-docs

Servers

http://localhost:8083 - Generated server url

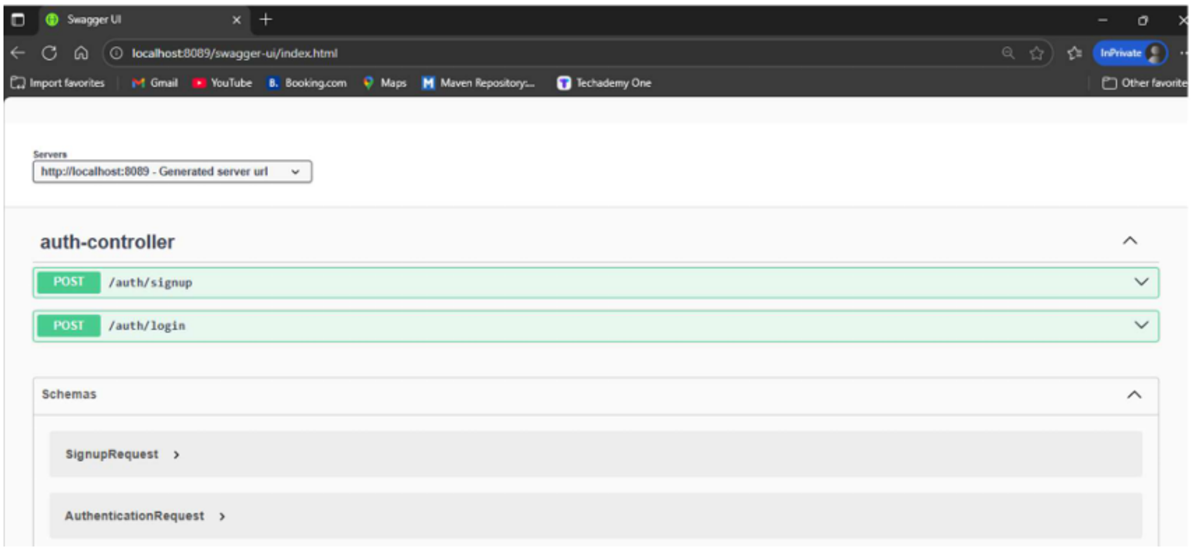
audit-log-controller

POST /audits/log

GET /audits/getAll

Schemas

AuditLog >



Servers

http://localhost:8089 - Generated server url

auth-controller

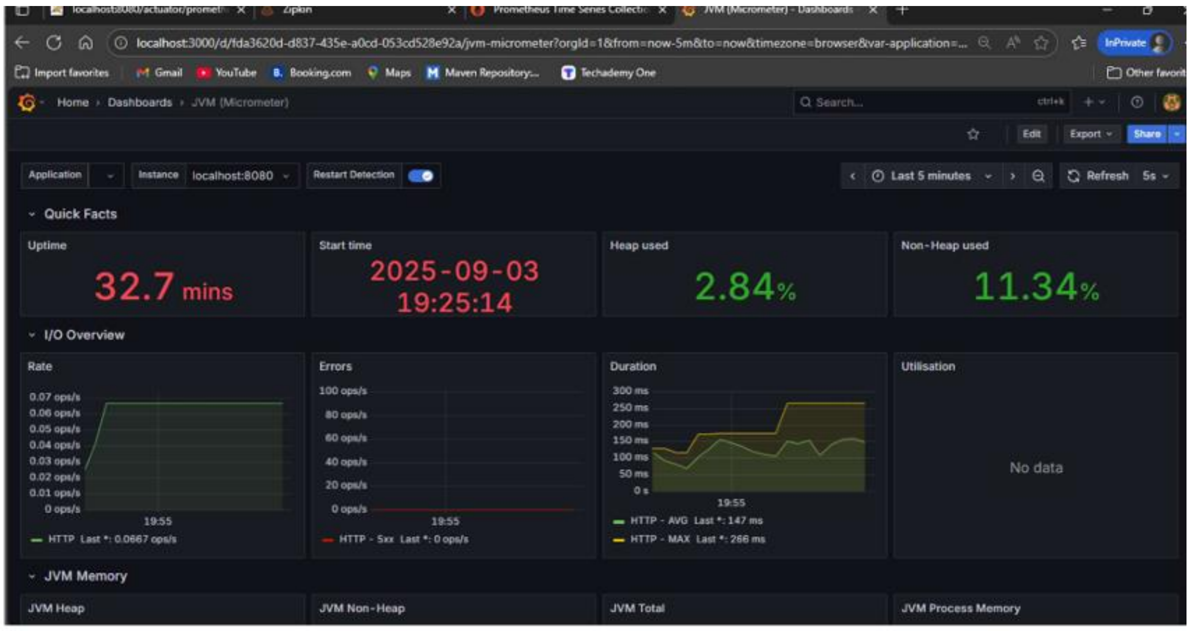
POST /auth/signup

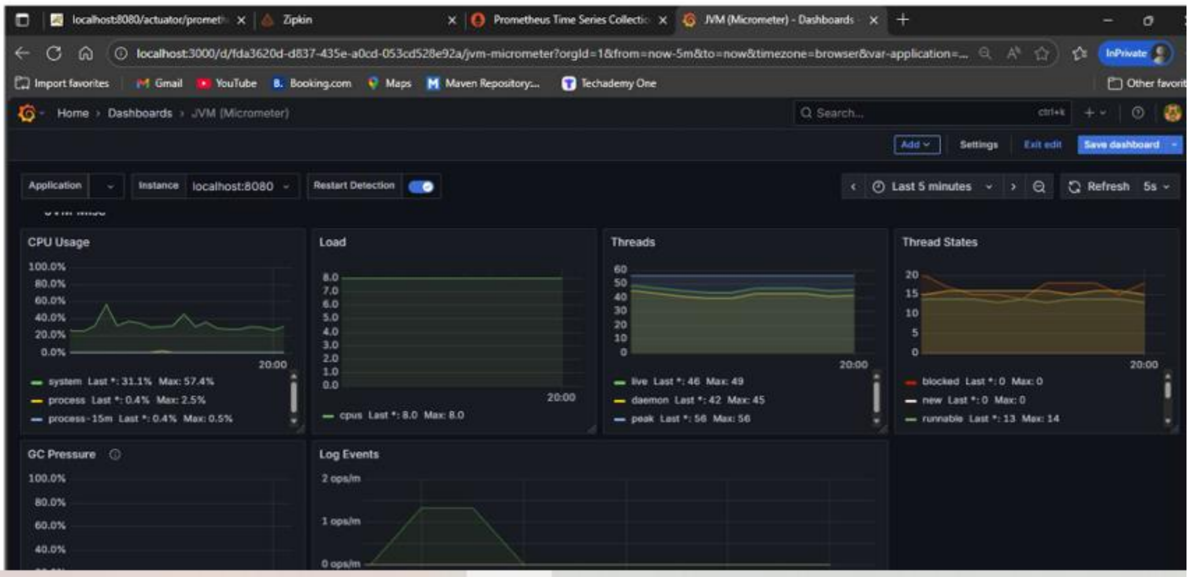
POST /auth/login

Schemas

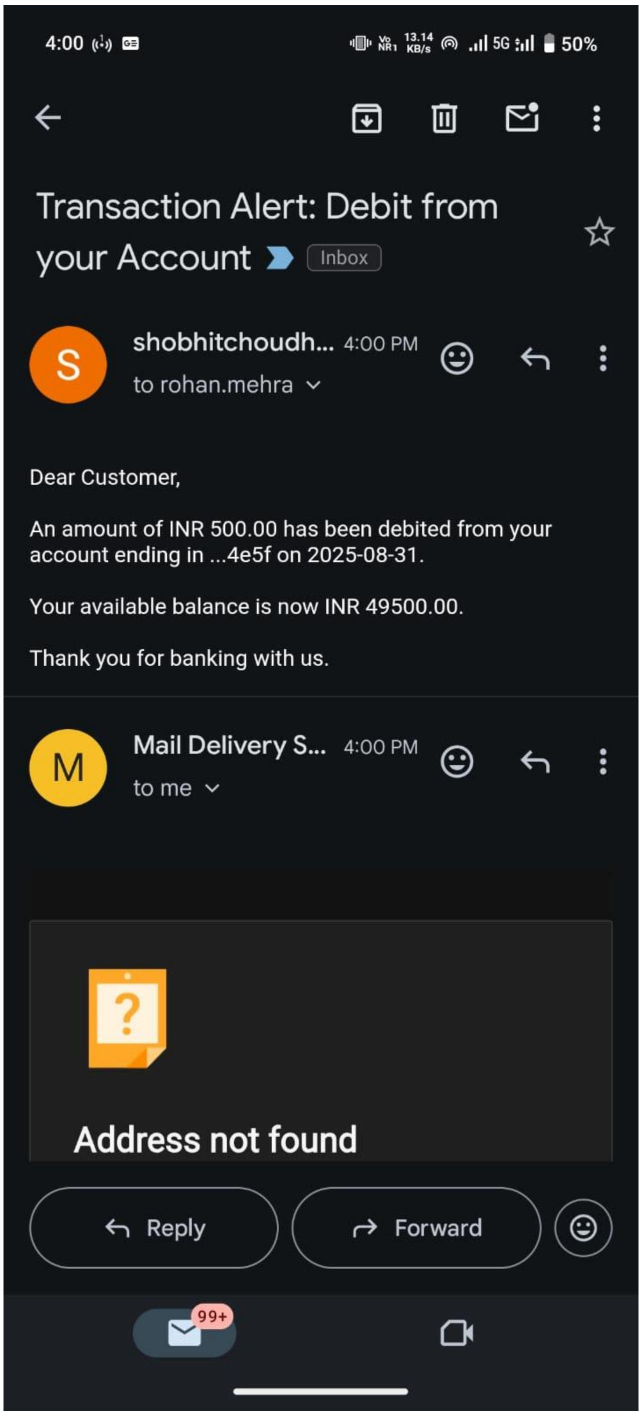
SignupRequest >

AuthenticationRequest >


localhost:8080/actuator/prometh
Zipkin
Prometheus Time Series Collectio
JVM (Micrometer) - Dashboards
localhost:3000/d/fda3620d-d837-435e-a0cd-053cd528e92a/jvm-micrometer?orgId=1&from=now-5m&to=now&timezone=browser&var-application=...
Import favorites
Gmail
YouTube
Booking.com
Maps
Maven Repository:...
Techademy One
Other favorit
Home › Dashboards › JVM (Micrometer)
Search...
Edit
Export
Share
Application
Instance localhost:8080
Restart Detection
Last 5 minutes
Refresh 5s
Quick Facts
Uptime 32.7 mins
Start time 2025-09-03 19:25:14
Heap used 2.84%
Non-Heap used 11.34%
I/O Overview
Rate
HTTP Last *: 0.0667 ops/s
Errors
HTTP - 5xx Last *: 0 ops/s
Duration
HTTP - AVG Last *: 147 ms
HTTP - MAX Last *: 266 ms
Utilisation
No data
JVM Memory
JVM Heap
JVM Non-Heap
JVM Total
JVM Process Memory


localhost:8080/actuator/prometh
Zipkin
Prometheus Time Series Collectio
JVM (Micrometer) - Dashboards
localhost:3000/d/fda3620d-d837-435e-a0cd-053cd528e92a/jvm-micrometer?orgId=1&from=now-5m&to=now&timezone=browser&var-application=...
Home › Dashboards › JVM (Micrometer)
Add
Settings
Exit edit
Save dashboard
Application
Instance localhost:8080
Restart Detection
Last 5 minutes
Refresh 5s
CPU Usage
system Last *: 31.1% Max: 57.4%
process Last *: 0.4% Max: 2.5%
process-15m Last *: 0.4% Max: 0.5%
Load
cpus Last *: 8.0 Max: 8.0
Threads
live Last *: 46 Max: 49
daemon Last *: 42 Max: 45
peak Last *: 56 Max: 56
Thread States
blocked Last *: 0 Max: 0
new Last *: 0 Max: 0
runnable Last *: 13 Max: 14
GC Pressure
Log Events

Payment Notification



Transaction Alert: Debit from your Account

shobhitchoudh... 4:00 PM
to rohan.mehra

Dear Customer,

An amount of INR 500.00 has been debited from your account ending in ...4e5f on 2025-08-31.

Your available balance is now INR 49500.00.

Thank you for banking with us.

Mail Delivery S... 4:00 PM
to me

Address not found

OVERVIEW:

The Banking Web Application project demonstrates a robust, microservices based architecture built with Angular and Spring Boot. Core functionalities, including customer management, accounts, payments, feedback, audit, and notifications, are seamlessly integrated, with Kafka enabling asynchronous communication between Payment and Notification services and Feign Clients facilitating synchronous inter-service calls. Supported by API Gateway, Config Server, and Discovery Service, the system is secure, scalable, and maintainable. This project highlights modern enterprise-level development practices and provides a solid foundation for real-world banking solutions.

Acknowledgment / Conclusion:

This project has been completed successfully under the guidance of Ramakrishna Sir. I have applied my knowledge of Angular, Spring Boot, and Microservices to develop a scalable and secure Banking Web Application. I hope this project meets the objectives and expectations outlined at the start.

Submitted

By: Shobhit Kumar Chaudhary

shobhitno1@gmail.com BATCH _II _ANGULAR