CAPSTONE PROJECT OUTPUT

Project Name: Banking APP
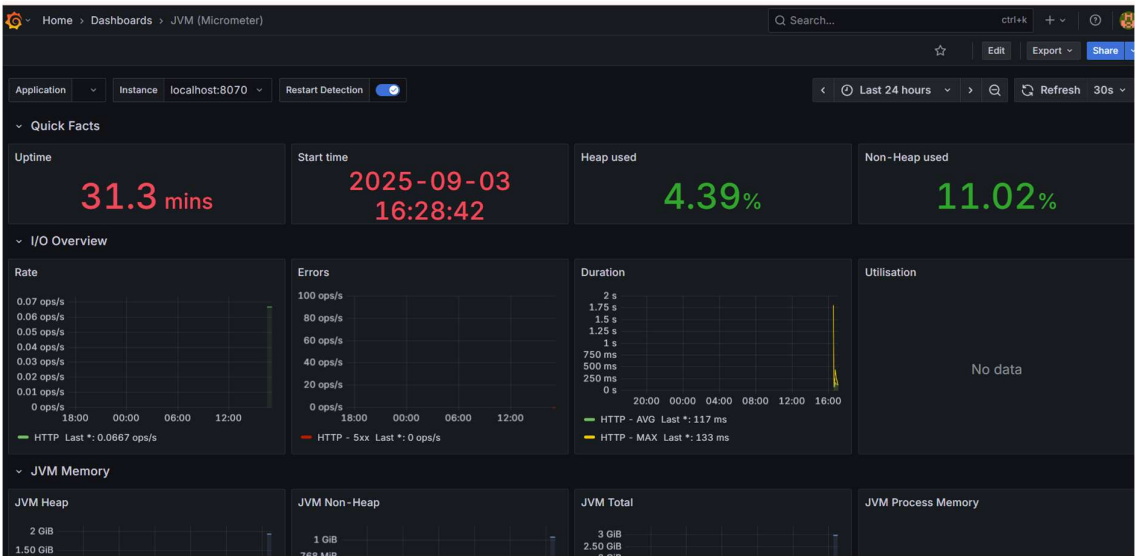
Prometheus

Zipkin

Grafana

Eureka

Swagger

API-Docs

← → C ⓘ localhost:8070/api-docs

Pretty print ☑

```
{
  "openapi": "3.1.0",
  "info": {
    "title": "OpenAPI definition",
    "version": "v0"
  },
  "servers": [
    {
      "url": "http://localhost:8070",
      "description": "Generated server url"
    }
  ],
  "paths": {
    "/api/customer": {
      "get": {
        "tags": [
          "customer-controller"
        ],
        "operationId": "getAllCustomers",
        "responses": {
          "200": {
            "description": "OK",
            "content": {
              "*/*": {
                "schema": {
                  "type": "array",
                  "items": {
                    "$ref": "#/components/schemas/Customer"
                  }
                }
              }
            }
          }
        }
      },
      "post": {
        "tags": [
          "customer-controller"
        ],
        "operationId": "saveCustomer",
        "requestBody": {
          "content": {
            "application/json": {
              "schema": {
                "$ref": "#/components/schemas/Customer"
```

```
      "post": {
        "tags": [
          "customer-controller"
        ],
        "operationId": "saveCustomer",
        "requestBody": {
          "content": {
            "application/json": {
              "schema": {
                "$ref": "#/components/schemas/Customer"
              }
            }
          },
          "required": true
        },
        "responses": {
          "200": {
            "description": "OK",
            "content": {
              "*/*": {
                "schema": {
                  "$ref": "#/components/schemas/Customer"
                }
              }
            }
          }
        }
      }
    }
```

Postman Outputs:

Finding the user by address

```
GET  v   http://localhost:8071/api/accounts/by-address?address=Mumbai&page=0&size=5...        Send  v
```

Params •   Authorization   Headers (8)   Body •   Pre-request Script   Tests   Settings   Cookies

none   form-data   x-www-form-urlencoded   ● raw   binary   JSON v   Beautify

```
1  {
2    "id":10,
3    "aadharCardNumber": "123456789012",
```

Body   Cookies   Headers (5)   Test Results   ⊕ Status: 200 OK Time: 1459 ms Size: 888 B   Save Response v

Pretty   Raw   Preview   Visualize   JSON v   ⇥

```
1  {
2      "content": [
3          {
4              "id": 1,
5              "userName": "johndoe",
6              "panCardNumber": "ABCDE1234F",
7              "aadharCardNumber": "123456789012",
8              "bankAccountNumber": "987654321098",
9              "accountType": "SAVINGS",
10             "password": "securePass123",
11             "balance": 25000.5,
12             "loan": 2309.0,
13             "address": "Mumbai",
14             "customerId": null
15         },
16         {
17             "id": 10,
18             "userName": "johndoe",
19             "panCardNumber": "ABCDE1234F",
20             "aadharCardNumber": "123456789012",
21             "bankAccountNumber": "987654321098"
```

Payment

```
POST  v   http://localhost:8081/payments        Send  v
```

Params   Authorization   Headers (8)   Body •   Pre-request Script   Tests   Settings   Cookies

none   form-data   x-www-form-urlencoded   ● raw   binary   JSON v   Beautify

```
1  {
2    "userEmail":"harsh@gmail.com",
3    "amount":100000
4  }
```
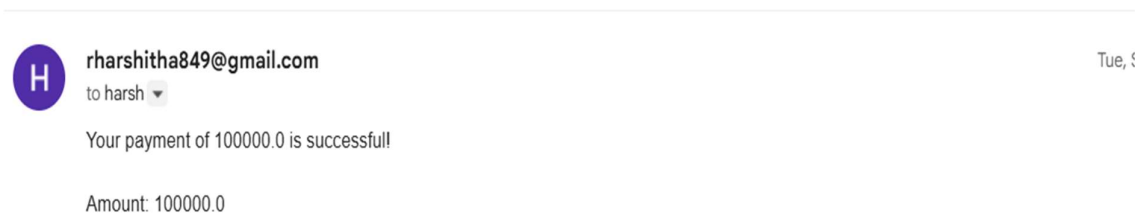
Body   Cookies   Headers (5)   Test Results   ⊕ Status: 200 OK Time: 240 ms Size: 284 B   Save Response v
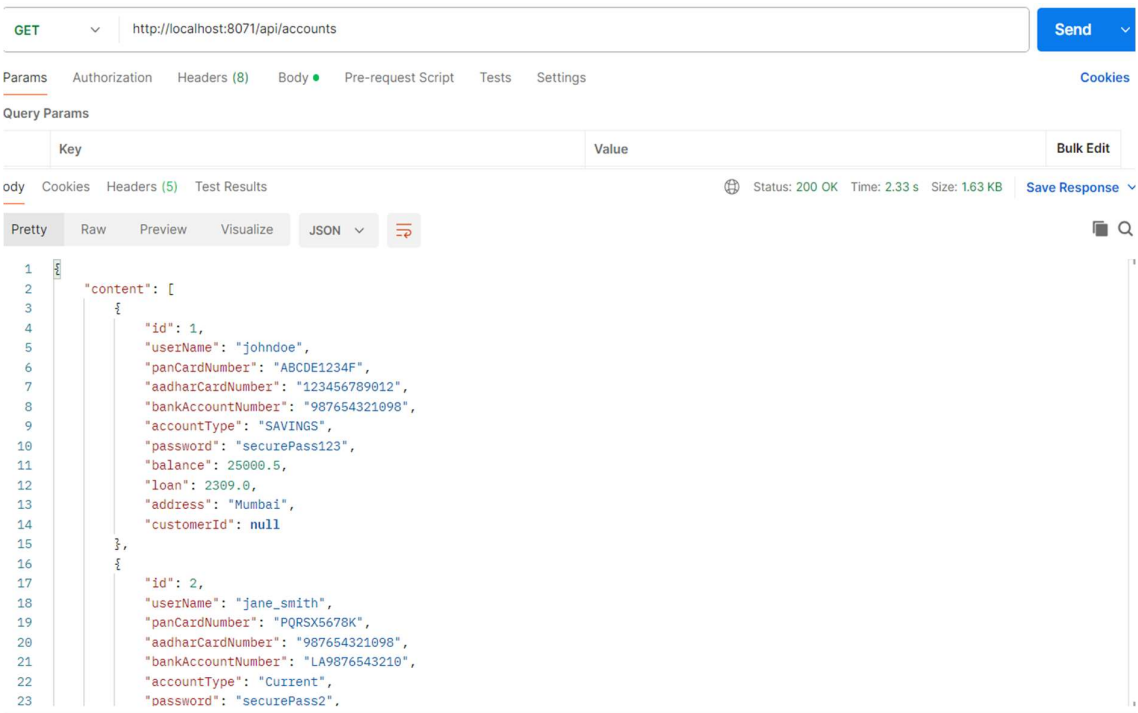
Pretty   Raw   Preview   Visualize   JSON v   ⇥

```
1  {
2      "userEmail": "harsh@gmail.com",
3      "amount": 100000.0,
4      "status": "SUCCESS",
5      "message": "Your payment of 100000.0 is successful!"
6  }
```

After payment got email :Notification

Account details:

GET | http://localhost:8071/api/accounts | **Send**

Params Authorization Headers (8) Body ● Pre-request Script Tests Settings   Cookies

Query Params

Key	Value	Bulk Edit

ody Cookies Headers (5) Test Results   Status: 200 OK   Time: 2.33 s   Size: 1.63 KB   Save Response ∨

Pretty   Raw   Preview   Visualize   JSON ∨

```
1  {
2      "content": [
3          {
4              "id": 1,
5              "userName": "johndoe",
6              "panCardNumber": "ABCDE1234F",
7              "aadharCardNumber": "123456789012",
8              "bankAccountNumber": "987654321098",
9              "accountType": "SAVINGS",
10             "password": "securePass123",
11             "balance": 25000.5,
12             "loan": 2309.0,
13             "address": "Mumbai",
14             "customerId": null
15         },
16         {
17             "id": 2,
18             "userName": "jane_smith",
19             "panCardNumber": "PQRSX5678K",
20             "aadharCardNumber": "987654321098",
21             "bankAccountNumber": "LA9876543210",
22             "accountType": "Current",
23             "password": "securePass2",
```

```
GET ∨   http://localhost:8071/api/accounts/by-address?address=Delhi          Send
```

Params ●   Authorization   Headers (8)   Body ●   Pre-request Script   Tests   Settings   Coo

☑	address		Delhi
	Key		Value

Body   Cookies   Headers (5)   Test Results   ⊕ Status: 200 OK   Time: 218 ms   Size: 391 B   Save Respon

Pretty   Raw   Preview   Visualize   JSON ∨

```json
 1  {
 2      "content": [],
 3      "pageable": {
 4          "pageNumber": 0,
 5          "pageSize": 5,
 6          "sort": [],
 7          "offset": 0,
 8          "paged": true,
 9          "unpaged": false
10      },
11      "last": true,
12      "totalElements": 0,
13      "totalPages": 0,
14      "size": 5,
15      "number": 0,
16      "sort": [],
17      "first": true,
18      "numberOfElements": 0,
19      "empty": true
20  }
```

List of Customer stored in Database

```
2 ● use customerdb;
3 ● select * from customer;
```

Result Grid | ⊞   ↔ Filter Rows: Edit: ✎ 🖶 🖶 | Export/Import: 🖫 🖫 | Wrap Cell Content: ‖A

contact_id	address	age	email	gender	image	mobile_number	name
1	123 Main St, New York, NY	30	john.doe@example.com	Male	https://example.com/images/john.jpg	9876543210	John Doe
2	456 Oak Ave, Los Angeles, CA	25	jane.smith@example.com	Female	https://example.com/images/jane.jpg	9876543211	Jane Smith
3	789 Pine Rd, Chicago, IL	40	michael.brown@example.com	Male	https://example.com/images/michael.jpg	9876543212	Michael Brown
4	101 Maple Dr, Houston, TX	35	emily.jones@example.com	Female	https://example.com/images/emily.jpg	9876543213	Emily Jones
5	202 Elm St, Phoenix, AZ	28	david.wilson@example.com	Male	https://example.com/images/david.jpg	9876543214	David Wilson
6	303 Birch Ln, Philadelphia, PA	22	sarah.taylor@example.com	Female	https://example.com/images/sarah.jpg	9876543215	Sarah Taylor
7	404 Cedar Blvd, San Antonio, TX	45	chris.anderson@example.com	Male	https://example.com/images/chris.jpg	9876543216	Chris Anderson
8	505 Walnut Ct, San Diego, CA	33	lisa.martin@example.com	Female	https://example.com/images/lisa.jpg	9876543217	Lisa Martin
9	606 Chestnut Pl, Dallas, TX	38	robert.lee@example.com	Male	https://example.com/images/robert.jpg	9876543218	Robert Lee

customer 1 ✕   Apply   Revert

List of account

```
1
2 •  use accountdb;
3 •  select * from account;
```

id	aadhar_card_number	account_type	address	balance	bank_account_number	loan	pan_card_number	password	user_name	cust
1	123456789012	SAVINGS	Mumbai	25000.5	987654321098	2309	ABCDE1234F	securePass123	johndoe	NULL
2	987654321098	Current	456 Elm St, LA	75000.5	LA9876543210	12000	PQRSX5678K	securePass2	jane_smith	NULL
3	112233445566	Savings	789 Pine St, Chicago	30000.25	CH1122334455	0	LMNOP2345Y	securePass3	michael_b	NULL
4	998877665544	Current	321 Maple Ave, TX	65000	TX9988776655	5000	ZXCVB6789L	securePass4	emily_j	NULL
5	776655443322	Savings	654 Oak St, AZ	100000.75	AZ7766554433	0	QWERT5432T	securePass5	david_w	NULL
6	445566778899	Current	987 Cedar Rd, CA	82000.6	CA4455667788	23000	TYUIO9876P	securePass6	sarah_t	NULL
7	554433221100	Savings	741 Birch Ln, PA	42000.1	PA5544332211	0	ASDFG3210H	securePass7	chris_a	NULL
8	667788990011	Savings	159 Walnut St, TX	39000	TX6677889900	0	GHJKL6543V	securePass8	lisa_m	NULL

Audit-log

```
1
2 •  use paymentdb;
3 •  select * from payment;
```

id	amount	booking_id	status	payment_done	receiver_account	receiver_name	sender_account	sender_name	timestamp	receiver_
1	500.75	1	COMPLETED	1	NULL	Bob	NULL	Alice	2025-08-31 20:58:31.408876	09876543
2	18000	2	COMPLETED	0	NULL	NULL	NULL	NULL	NULL	NULL
3	10000	3	COMPLETED	0	NULL	NULL	NULL	NULL	NULL	NULL
4	8000	4	COMPLETED	0	NULL	NULL	NULL	NULL	NULL	NULL
5	15000	5	COMPLETED	0	NULL	NULL	NULL	NULL	NULL	NULL
6	16000	6	COMPLETED	0	NULL	NULL	NULL	NULL	NULL	NULL
7	20000	7	COMPLETED	0	NULL	NULL	NULL	NULL	NULL	NULL
8	9000	8	COMPLETED	0	NULL	NULL	NULL	NULL	NULL	NULL

Sign-Up Page

Signup   Login

Sign Up

Enter Your Name*
Admin

Enter Your Email*
admin@gmail.com

Enter your password*
•••••••••

Confirm your password*
•••••••••

Signup

Login Page

localhost:4200/login

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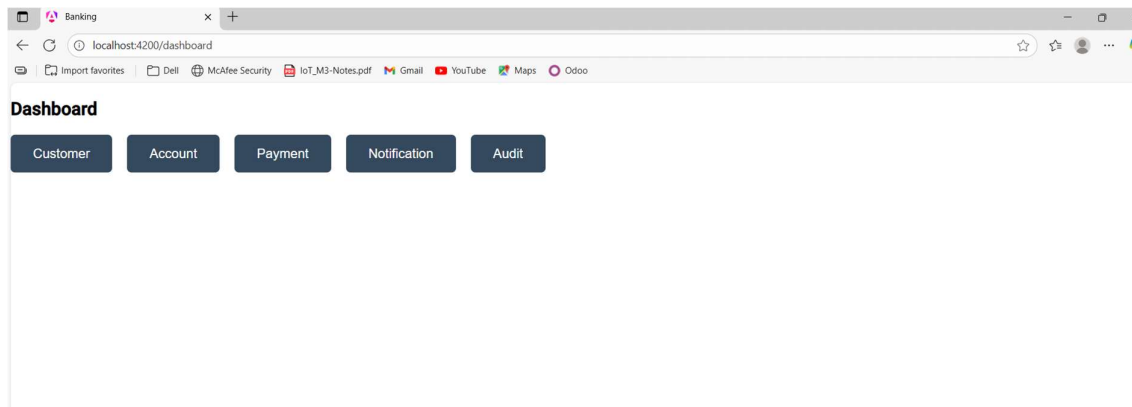☰ Banking Application   Signup   Login

Login

Email*
admin@gmail.com

Password*
•••••••••

Login

Dashboard

Create Customer

Customer Name:
Hars

Email:
harsh@gmail.com

Mobile Number:
2344456666

Address:
Bangalore

Age:
19

Gender:
Male

Save Customer

Create Bank Account

Customer ID:
100

User Name:
Jeo

PAN Card:
RE34477899

Aadhar Card:
1234560987

Bank Account Number:
AC468990

Account Type:
Saving

Password:
••••••••

Balance:
10987

Loan:
0

Address:
Mumbai

Save Account

Make a Payment

Email: harsh@gmail.com

Amount: 100000

Pay Now

Notification

User Email: harsh@gmail.com

Amount: 10000

Status: SUCCESS

Message: Payment Successful

Save Notification