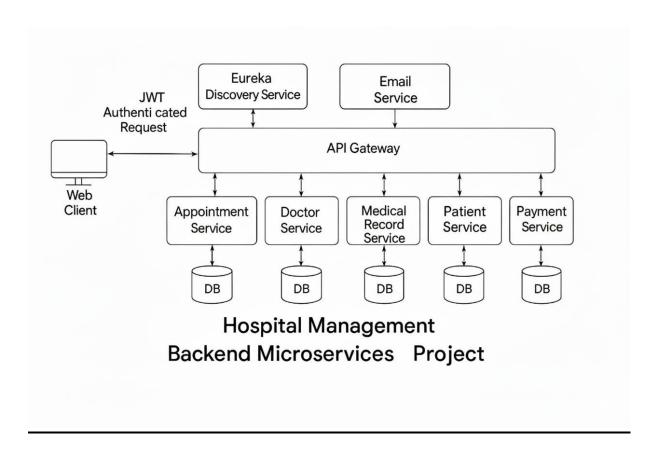
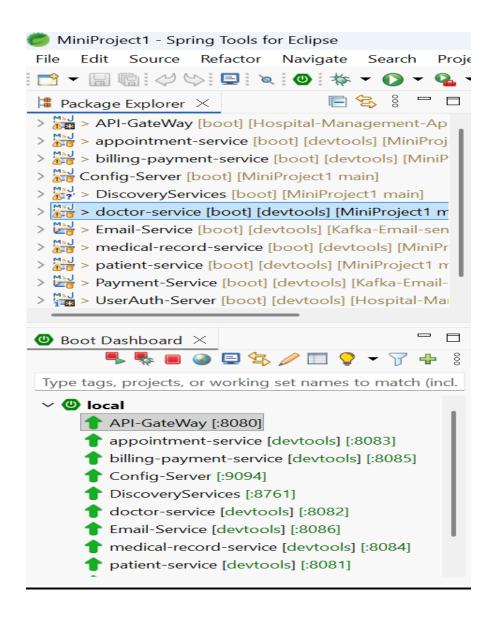
#### Name:- Komal Sudhakar Baviskar

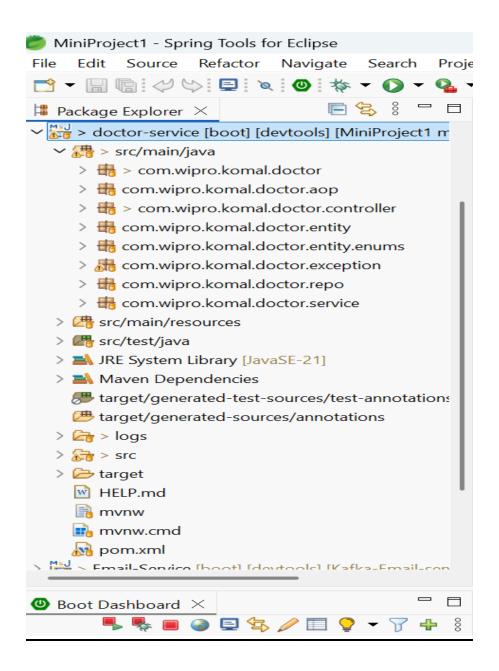
## **Hospital Management System**

## **Architecture:**



## **Backend:**





#### **# API Access Documentation:**

#### 1. Authentication Service

- Base Path: /api/auth
- Endpoints:
  - POST /signup:
    - Description: Registers a new user.
    - Request Body: SignupRequest

- Response: UserDto on success, or an error message if the user already exists.
- POST /login:
  - Description: Authenticates a user and returns a JWT token.
  - Request Body: AuthenticationRequest (with email and password)
  - Response: AuthenticationResponse (containing JWT token, user ID, and user role).

#### 2. Doctor Service

- Base Path: /api/v1/doctors
- Endpoints:
  - o POST /add:
    - Description: Adds a new doctor.
    - Request Body: Doctor
  - o GET /list:
    - **Description:** Gets a paginated list of all doctors.
    - Query Params: page (default 0), size (default 5)
  - GET /{id}:
    - Description: Gets a single doctor by ID.
    - Path Variable: id
  - o GET /availability/{status}:
    - **Description:** Finds doctors by their availability status.
    - Path Variable: status
  - o PUT /update/{id}:
    - **Description:** Updates a doctor's information.
    - Path Variable: id
    - Request Body: Doctor
  - o DELETE /delete/{id}:

- Description: Deletes a doctor by ID.
- Path Variable: id

#### 3. Medical Record Service

- Base Path: /api/v1/medical-records
- Endpoints:
  - o POST /create:
    - Description: Creates a new medical record.
    - Request Body: MedicalRecord
  - o GET /list:
    - **Description:** Gets a list of all medical records.
  - GET /{id}:
    - Description: Gets a single medical record by ID.
    - Path Variable: id
  - o PUT /update/{id}:
    - **Description:** Updates a medical record.
    - Path Variable: id
    - Request Body: MedicalRecord
  - o DELETE /delete/{id}:
    - Description: Deletes a medical record by ID.
    - Path Variable: id

#### **4. Appointment Service**

- Base Path: /api/v1/appointments
- Endpoints:
  - o POST /add:
    - Description: Adds a new appointment.

- Request Body: Appointment
- o GET /list:
  - Description: Gets a paginated list of all appointments.
  - Query Params: page (default 0), size (default 5)
- o GET /{id}:
  - Description: Gets a single appointment by ID.
  - Path Variable: id
- o PUT /update/{id}:
  - Description: Updates an appointment.
  - Path Variable: id
  - Request Body: Appointment
- o <u>DELETE /delete/{id}:</u>
  - **Description:** Deletes an appointment by ID.
  - Path Variable: id
- GET /{id}/details:
  - **Description:** Gets detailed information for a specific appointment.
  - Path Variable: id
- GET /doctor/{doctorId}/list:
  - **Description:** Gets all appointments for a specific doctor.
  - Path Variable: doctorId
- GET /patient/{patientId}/list:
  - **Description:** Gets all appointments for a specific patient.
  - Path Variable: patientId

#### 5. Payment Service

- Base Path: /payments
- **Endpoints**:

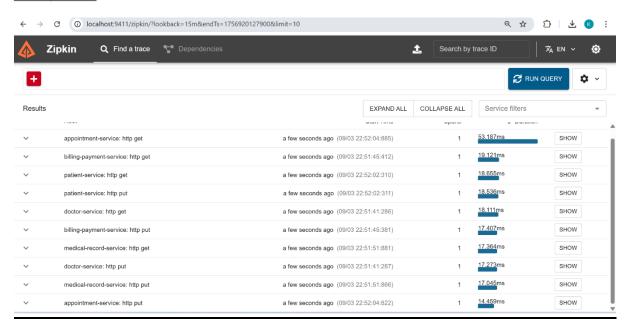
#### o POST /:

- Description: Processes a payment and sends a message to a Kafka topic.
- Request Body: Payment (with amount, status, and message properties).
- Response: Returns the updated Payment object with its status.

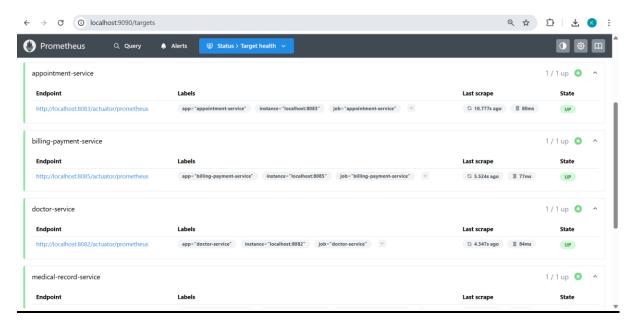
## # Notification (Kafka):



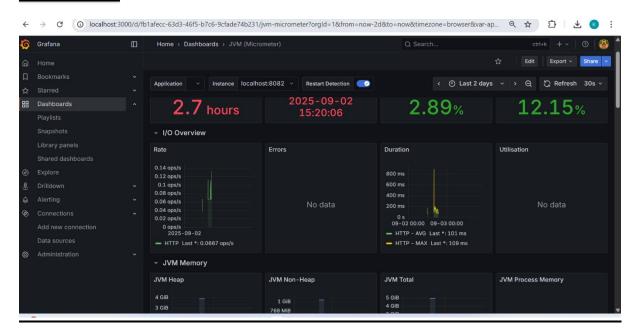
### # Zipkin:



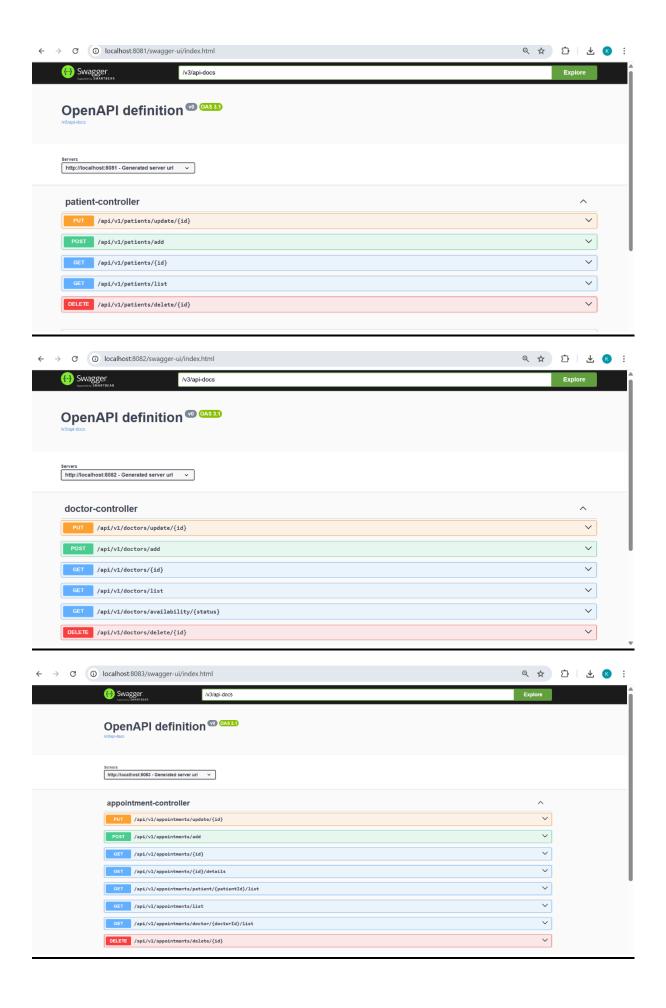
## # Prometheus:

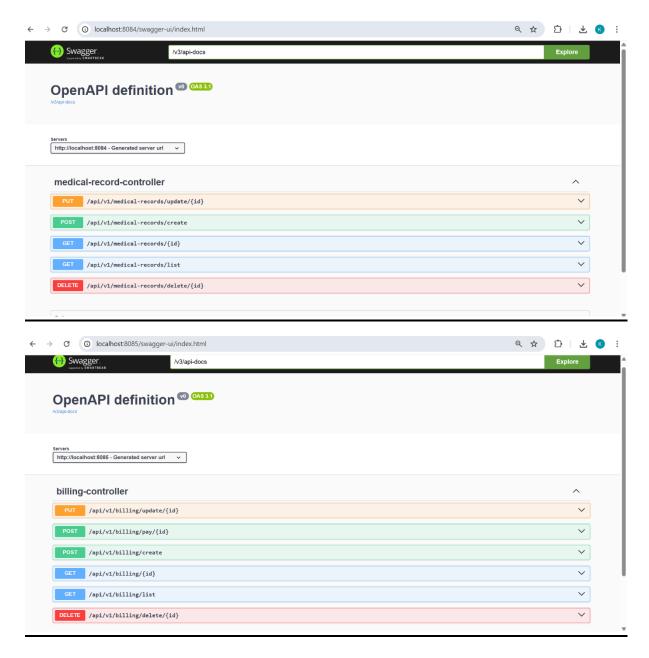


### # Grafana:

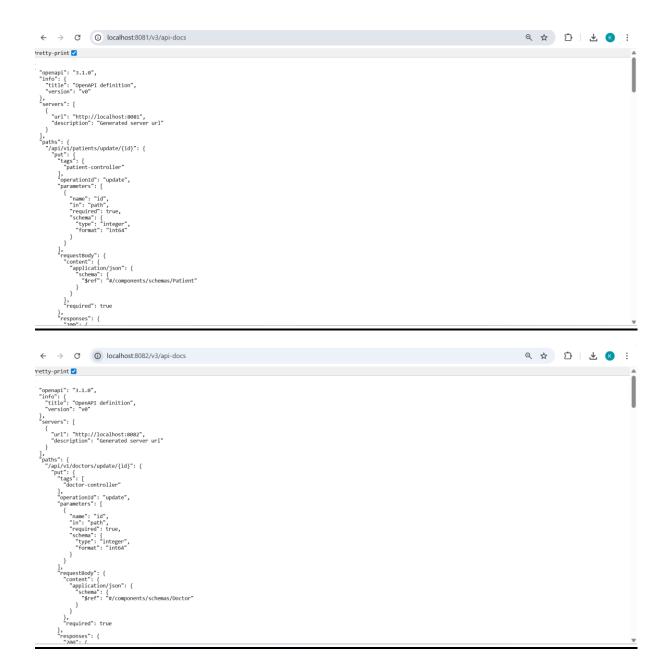


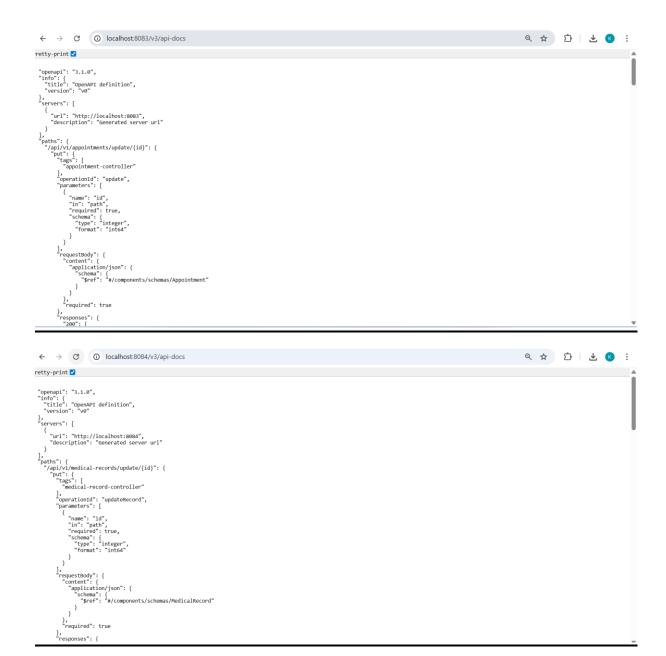
# swagger ui of services:





**#API-Docs of services:** 





```
retty-print 

"openapi": "3.1.0",
"info: {
"openapi": "9.1.0",
"ittie ("openapi definition",
version: "ve"
}

servers: {

("un': "http://localbost.8885",
"description': "Generated server un!"
}

paths: {
"bling-controller"
}

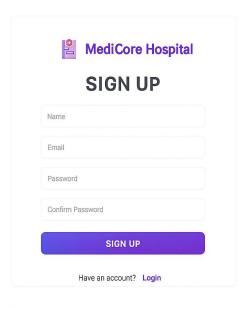
paths: {
"infing-controller"
}

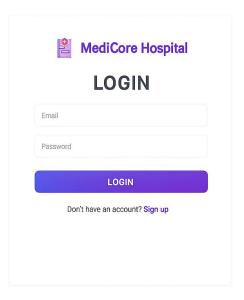
papenaeters: [

"name": id",
"inr: path",
"required': true,
""ype": "integer",
"format: "integer",
"format:
```

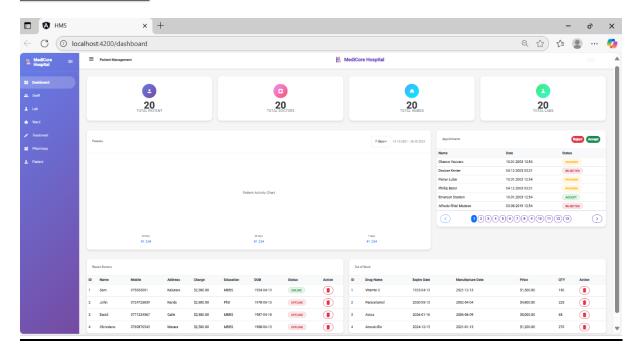
## **FrontEnd:**

# #Login and SignUp:

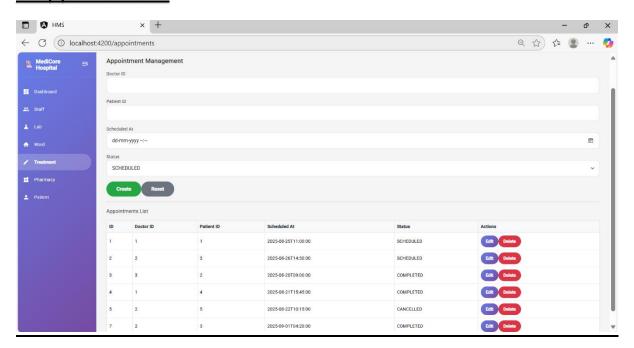




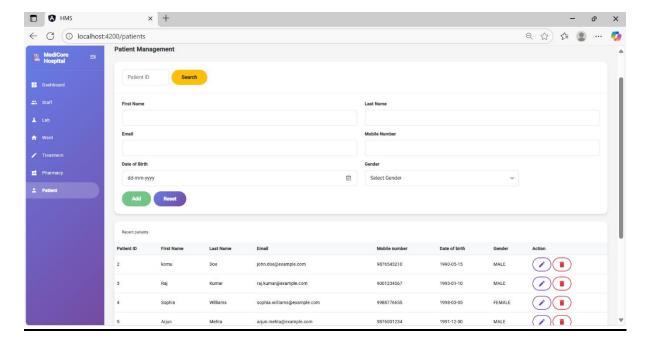
# # Dashboard:



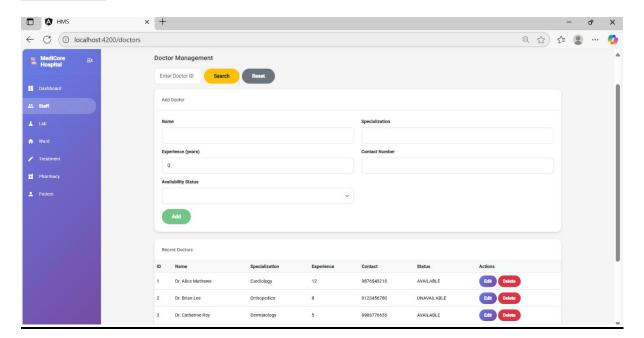
# # Appointment:



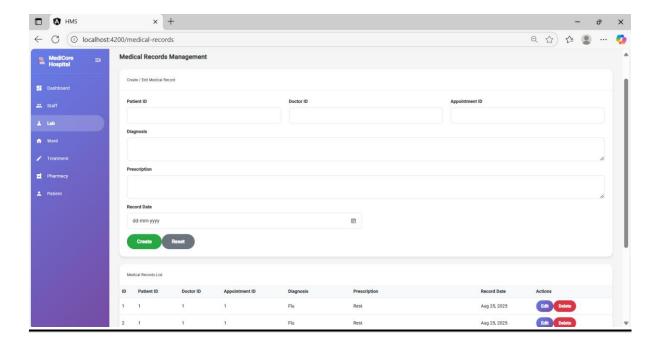
## #Patient:



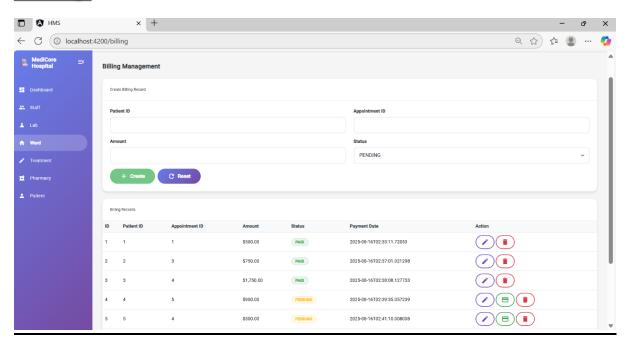
## **#Doctor:**



# **#Medical Record:**



# #Billing:



## **Databases:**

