

# Book My Consultation

## A. Pre Requisites

Changes to be made to run the project:

1. Appointment Service (Port:8086)
  - a. Data source URL, username and password in application.properties for SQL and Mongo DB
  - b. Default-zone URL of the Eureka Server application.yml
2. Doctor Service(Port:8083)
  - a. Data source URL, username and password in application.properties for Mongo DB
  - b. Default-zone URL of the Eureka Server in application.yml
  - c. Boot strap server URL for KAFKA
3. Notification Service (Port:8080)
  - a. Default-zone URL of the Eureka Server in application.yml
  - b. Boot strap server URL for KAFKA in application.yml
  - c. Access key and secret of the IAM user with SES access in SESEmailService.java
  - d. Access key and secret of SMTP credentials in SESEmailService.java
4. Payment Service (Port:8084)
  - a. Default-zone URL of the Eureka Server in application.yml
5. Rating Service (Port:8085)
  - a. Data source URL, username and password in application.properties for Mongo DB
  - b. Default-zone URL of the Eureka Server in application.yml
6. User Service(Port:8082)
  - a. Data source URL, username and password in application.properties for Mongo DB
  - b. Default-zone URL of the Eureka Server in application.yml
  - c. Boot strap server URL for KAFKA
7. API Gateway (Port:9191)
8. Authentication Service (Port:8081)
9. Eureka Service (Port:8761)

- B. To run the project after making the above changes as the run the docker compose file with command “docker-compose up -d” all the services shall come up without the need to create jar files as the individual service Docker files are multi-stage and should create the jar files automatically. SQL, Mongo DB and Kafka are part of the Docker Compose creating local instances of the three services used by application so the base URL of these services must be the same as the EC2 instance.

## CODE LOGIC AND SCREENSHOTS

### Eureka Service:

← → ↺ ⚙

Not secure | ec2-107-23-47-123.compute-1.amazonaws.com 8761

Renews (last min) 16

DS Replicas

localhost

Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
API-GATEWAY	n/a (1)	(1)	UP (1) - a9a6941983d2-API-GATEWAY:9191
APPOINTMENT-SERVICE	n/a (1)	(1)	UP (1) - ced3e4bfa3ae-APPOINTMENT-SERVICE:8086
AUTH-SERVICE	n/a (1)	(1)	UP (1) - 6b2319c24a30-AUTH-SERVICE:8081
DOCTOR-SERVICE	n/a (1)	(1)	UP (1) - ca207c8eb39a-DOCTOR-SERVICE:8083
NOTIFICATION-SERVICE	n/a (1)	(1)	UP (1) - dd4d124f5510-NOTIFICATION-SERVICE
PAYMENT-SERVICE	n/a (1)	(1)	UP (1) - 361e19fca9b5-PAYMENT-SERVICE:8084
RATING-SERVICE	n/a (1)	(1)	UP (1) - 139da04eb8ba-RATING-SERVICE:8085
USER-SERVICE	n/a (1)	(1)	UP (1) - f671ed8e0bb4-USER-SERVICE:8082

All the services are registered on the EUREKA Server.

For the screenshots below we will be using the respective token which has a validity of 1 day:

a. Doctor (username: doctor, password:password):

The screenshot shows the Swagger UI interface for a REST API. The top bar indicates a successful POST request to the endpoint `['capstone-ec2']/oauth/token` with a status of 200 OK, a response time of 531 ms, and a body size of 269 B. The response is displayed in the 'JSON' tab, showing a JSON object with the following structure:

```

1 {
2   "username": "doctor",
3   "password": "password"
4 }

```

b. `User(username:user, password:password) :`

[illegible]

c. Admin (username:admin, password:password)

The screenshot shows a REST client interface. The top bar indicates a POST request to `['capstone-ec2']/oauth/token` with a status of 200 OK, a response time of 752 ms, and a body size of 266 B. The response is displayed in JSON format:

```
{
  "token": "eyJhbGciOiJIUzI1NiIsInR5cGE6YWV0OiJpYXV0aG9yaXR5IjoiaWVBR",
  "expires_in": 3600
}
```

# Doctor Service:

## End Point 1

1. Using bad token to call the API getting 403 Forbidden

A screenshot of a REST client interface. The top bar shows a POST request to `[_['capstone-ec2']] /doctors` with a status of **403 Forbidden**, 715 ms, and 0 B. The left sidebar has tabs for JSON, Auth, Query, Header (2), and Docs. The Auth tab is selected, showing a Bearer token `eyJhbGciOiJIUzI1NiJ9.eyJ1IjoiYm9keSIsImVudCI6Im90In0.`. The right sidebar has tabs for Preview, Header (8), Cookie, and Timeline. The Preview tab is selected, showing the message "No body returned for response".

2. Sending bad data and getting 400 Bad Request

A screenshot of a REST client interface. The top bar shows a POST request to `[_['capstone-ec2']] /doctors` with a status of **400 Bad Request**, 551 ms, and 384 B. The left sidebar has tabs for JSON, Auth, Query, Header (2), and Docs. The JSON tab is selected, showing a JSON body: 

```
1 {
2   "firstName": "",
3   "lastName": "",
4   "dob": "2003/01/08",
5   "emailId": "sbaid40",
6   "mobile": "123",
7   "pan": "123"
8 }
```

. The right sidebar has tabs for Preview, Header (9), Cookie, and Timeline. The Preview tab is selected, showing a JSON response: 

```
1 {
2   "errorCode": "ERR_INVALID_PAYLOAD_001",
3   "errorMessage": "Invalid Payload in the request",
4   "errorFieldsList": [
5     "Student Name cannot be blank",
6     "Email is not valid",
7     "Student Name cannot be blank",
8     "Student Name length should be between 5 and 20 characters",
9     "Mobile number is invalid",
10    "Date of Birth should be in yyyy-mm-dd format",
11    "Student Name length should be between 5 and 20 characters"
12  ]
13 }
```

3. Good data sent and getting 201 Created

A screenshot of a REST client interface. The top bar shows a POST request to `[_['capstone-ec2']] /doctors` with a status of **201 Created**, 700 ms, and 330 B. The left sidebar has tabs for JSON, Auth, Query, Header (2), and Docs. The JSON tab is selected, showing a JSON body: 

```
1 {
2   "firstName": "Shreyansh",
3   "lastName": "Baidh",
4   "dob": "1995-05-05",
5   "emailId": "sbaid40@gmail.com",
6   "mobile": "1234567890",
7   "pan": "ABCD1234"
8 }
```

. The right sidebar has tabs for Preview, Header (9), and Cookie. The Preview tab is selected, showing a JSON response: 

```
1 {
2   "id": "maFRWciYqwPfDS0",
3   "firstName": "Shreyansh",
4   "lastName": "Baidh",
5   "speciality": "GENERAL_PHYSICIAN",
6   "dob": "1995-05-05",
7   "mobile": "1234567890",
8   "emailId": "sbaid40@gmail.com",
9   "pan": "ABCD1234",
10  "status": "PENDING",
11  "approvedBy": null,
12  "approverComments": null,
13  "registrationDate": "2022-04-05",
14  "verificationDate": null,
15  "rating": "Not Rated Yet"
16 }
```

Doctor Created Successfully

MongoDB Compass - ec2-107-23-47-123.compute-1.amazonaws.com:27017/BookMyConsultation.Doctor

Connect View Collection Help

**Local**

4 DBS 7 COLLECTIONS

☆ FAVORITE

HOST  
ec2-107-23-47-123.comp...

CLUSTER  
Standalone

EDITION  
MongoDB 5.0.6 Community

Filter your data

BookMyConsultation

Doctor

User

admin

config

local

BookMyConsultation.Do... Documents

Documents Aggregations Schema Explain

FILTER { field: 'value' }

ADD DATA

VIEW

```

_id: "maFRWciYqWPfDS0"
firstName: "Shreyansh"
lastName: "Baidh"
speciality: "GENERAL_PHYSICIAN"
dob: "1995-05-05"
mobile: "1234567890"
emailId: "sbaid40@gmail.com"
pan: "ABCD1234"
status: "PENDING"
registrationDate: 2022-04-05T00:00:00.000+00:00
rating: "Not Rated Yet"
_class: "com.upgrad.doctorservice.model.Doctor"

```

Doctor data saved in database successfully

1 of 29,318

Amazon Web Services – Email Address Verification Request in region US East (N. Virginia)

Inbox

Amazon Web Services <no-reply-aws@amazon.com> to me 10:39 (5 minutes ago)

Dear Amazon Web Services Customer,

We have received a request to authorize this email address for use with Amazon SES and Amazon Pinpoint in region US East (N. Virginia). If you requested this verification, please go to the following URL to confirm that you are authorized to use this email address:

[https://email-verification.us-east-1.amazonaws.com/?Context=449708879210&X-Amz-Date=20220405T050914Z&Identity.IdentityName=sbaid40%40gmail.com&X-Amz-Algorithm=AWS4-HMAC-SHA256&Identity.IdentityType=EmailAddress&X-Amz-SignedHeaders=host&X-Amz-Credential=AKIAVM67ZIEFRDEC83HF%2F20220405%2Fus-east-1%2Fses%2Faws4\\_request&Operation=ConfirmVerification&Namespace=Bacon&X-Amz-Signature=b9b572e8c965585a3b5fe63bdc433dd4632f056d8da3a53b0648004248fe12f3c](https://email-verification.us-east-1.amazonaws.com/?Context=449708879210&X-Amz-Date=20220405T050914Z&Identity.IdentityName=sbaid40%40gmail.com&X-Amz-Algorithm=AWS4-HMAC-SHA256&Identity.IdentityType=EmailAddress&X-Amz-SignedHeaders=host&X-Amz-Credential=AKIAVM67ZIEFRDEC83HF%2F20220405%2Fus-east-1%2Fses%2Faws4_request&Operation=ConfirmVerification&Namespace=Bacon&X-Amz-Signature=b9b572e8c965585a3b5fe63bdc433dd4632f056d8da3a53b0648004248fe12f3c)

Your request will not be processed unless you confirm the address using this URL. This link expires 24 hours after your original verification request.

If you did NOT request to verify this email address, do not click on the link. Please note that many times, the situation isn't a phishing attempt, but either a misunderstanding of how to use our service, or someone setting up email-sending capabilities on your behalf as part of a legitimate service, but without having fully communicated the procedure first. If you are still concerned, please forward this notification to [aws-email-domain-verification@amazon.com](mailto:aws-email-domain-verification@amazon.com) and let us know in the forward that you did not request the verification.

To learn more about sending email from Amazon Web Services, please refer to the Amazon SES Developer Guide at <http://docs.aws.amazon.com/ses/latest/DeveloperGuide/Welcome.html> and Amazon Pinpoint Developer Guide at <http://docs.aws.amazon.com/pinpoint/latest/userguide/welcome.html>.

Sincerely,

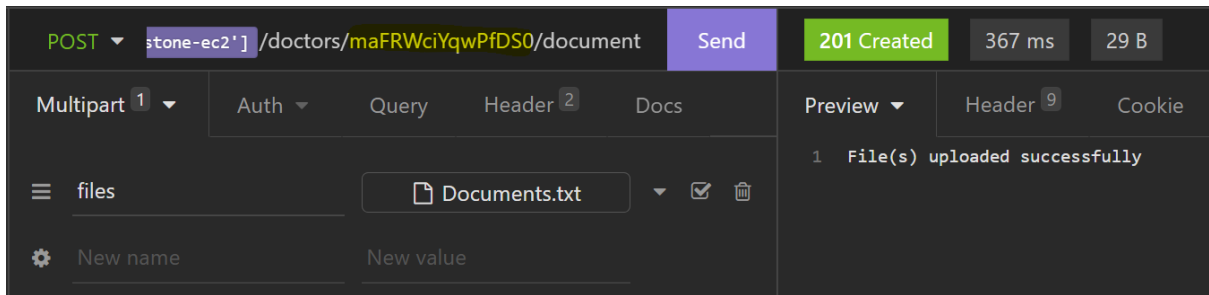
The Amazon Web Services Team.

Reply Forward

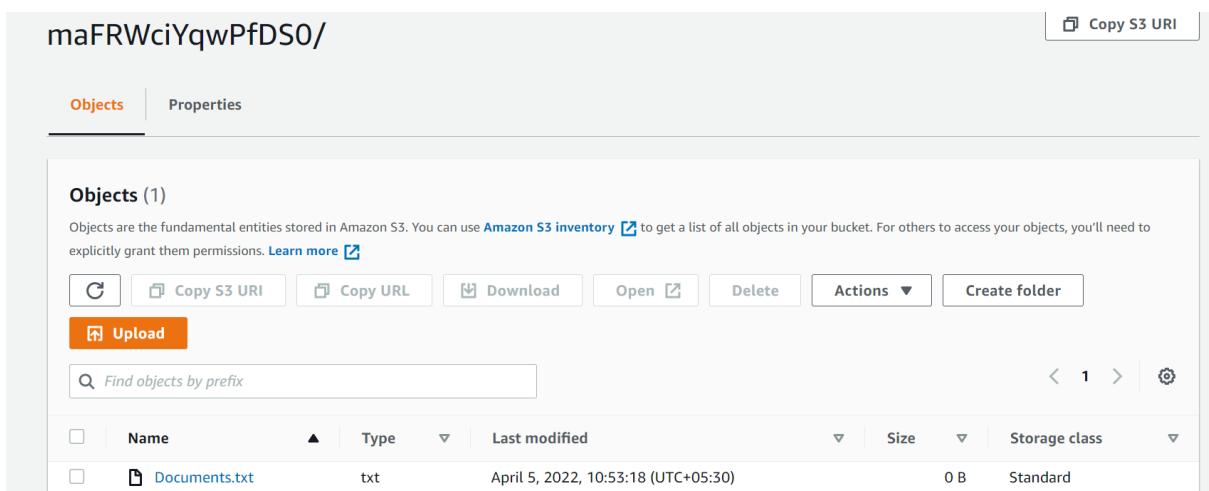
Email verification request received on passed email address

## End Point 2

Upload files for Doctor to S3



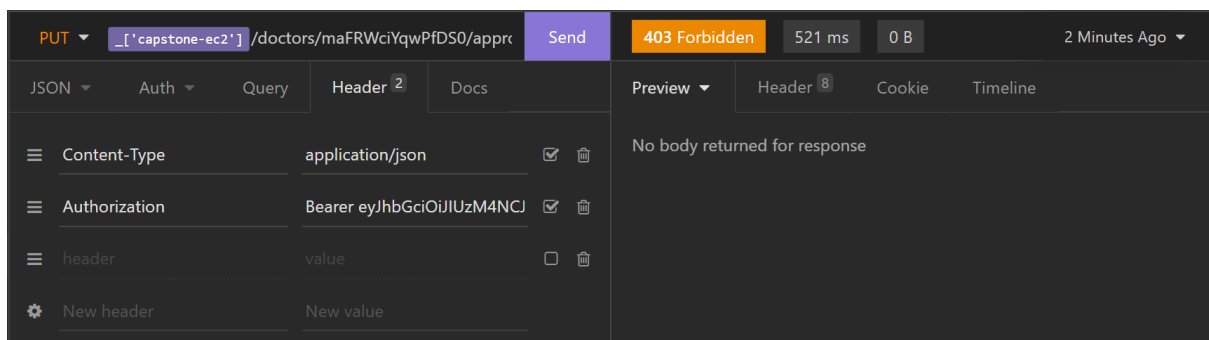
File uploaded for the above registered doctor



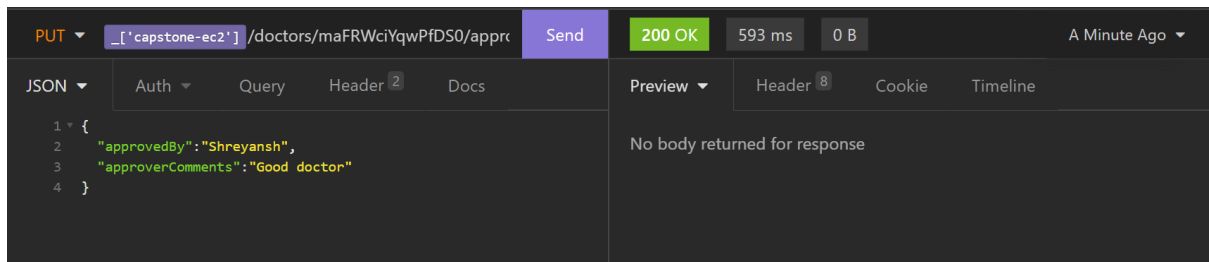
File uploaded in directory created as the id generated above with the uploaded file on S3

## End Point 3:

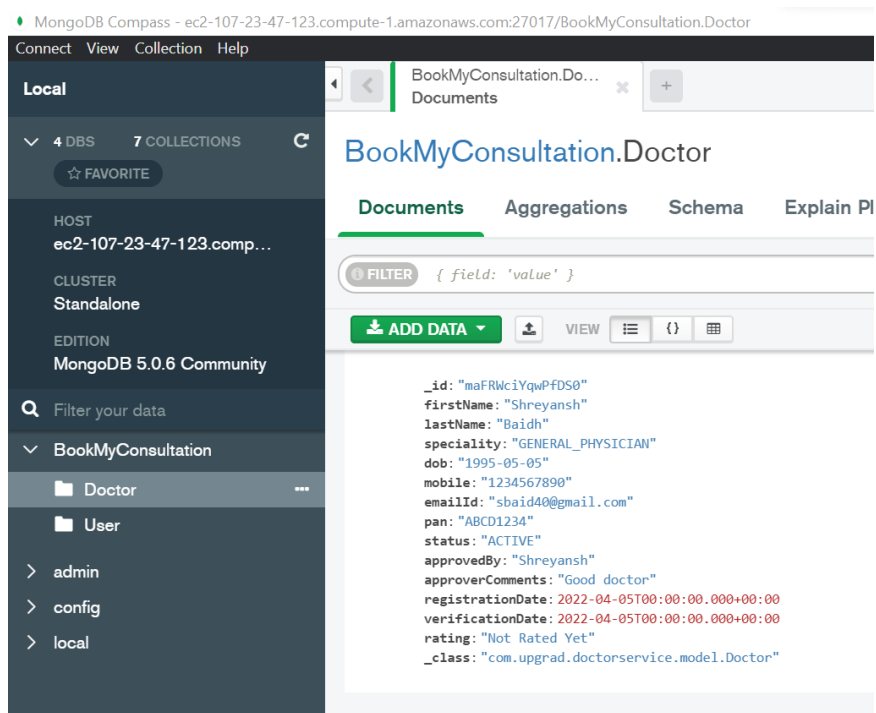
Approve a doctor



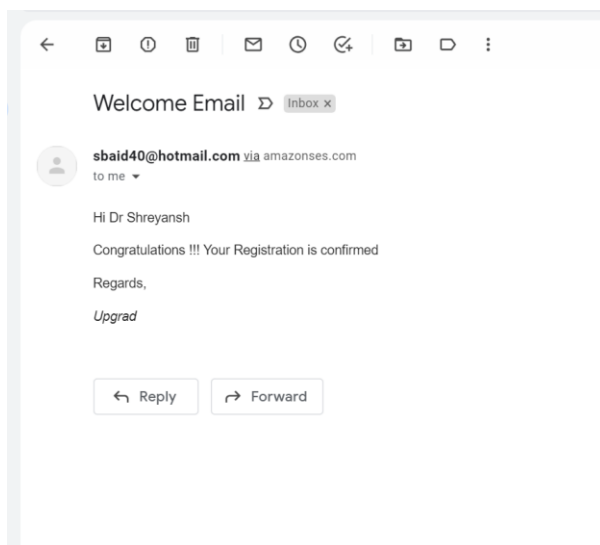
Unauthorized when bad token is provided



200 OK response when good token is provided



Database updated with active status



Approval email received

## End Point 4

### Reject a Doctor

PUT `[_['capstone-ec2']] /doctors/MNwDejtP4fvfaco/reject` Send **200 OK** 304 ms 0 B 2 Minutes Ago

JSON Auth Query Header 2 Docs Preview Header 8 Cookie Timeline

```
1 {
2   "approvedBy": "Shreyansh",
3   "approverComments": "Bad Doctor"
4 }
```

No body returned for response

Create another doctor and reject using its ID

MongoDB Compass - ec2-107-23-47-123.compute-1.amazonaws.com:27017/BookMyConsultation.Doctor

Local 4 DBS 7 COLLECTIONS

HOST ec2-107-23-47-123.comp...

CLUSTER Standalone

EDITION MongoDB 5.0.6 Community

Filter your data

BookMyConsultation

- Doctor
- User

admin config local

BookMyConsultation.Doctor Documents

Documents Aggregations Schema Explain Plan

FILTER { field: 'value' }

ADD DATA VIEW

```
{
  "_id": "naFRkciYqoPf050",
  "firstName": "Shreyansh",
  "lastName": "Baiddh",
  "speciality": "GENERAL_PHYSICIAN",
  "dob": "1995-05-05",
  "mobile": "1234567890",
  "emailId": "sbaidd40@gmail.com",
  "pan": "ABCD1234",
  "status": "ACTIVE",
  "approvedBy": "Shreyansh",
  "approverComments": "Good doctor",
  "registrationDate": "2022-04-05T00:00:00.000+00:00",
  "verificationDate": "2022-04-05T00:00:00.000+00:00",
  "rating": "Not Rated Yet",
  "_class": "com.upgrad.doctorservice.model.Doctor"
}
```

```
{
  "_id": "MNwDejtP4fvfaco",
  "firstName": "Devikaasaa",
  "lastName": "Baiddddd",
  "speciality": "GENERAL_PHYSICIAN",
  "dob": "2003-01-08",
  "mobile": "1234567890",
  "emailId": "sbaidd40@hotmail.com",
  "pan": "ABCD1234",
  "status": "REJECTED",
  "approvedBy": "Shreyansh",
  "approverComments": "Bad Doctor",
  "registrationDate": "2022-04-05T00:00:00.000+00:00",
  "verificationDate": "2022-04-05T00:00:00.000+00:00",
  "rating": "Not Rated Yet",
  "_class": "com.upgrad.doctorservice.model.Doctor"
}
```

Status updated to REJECTED

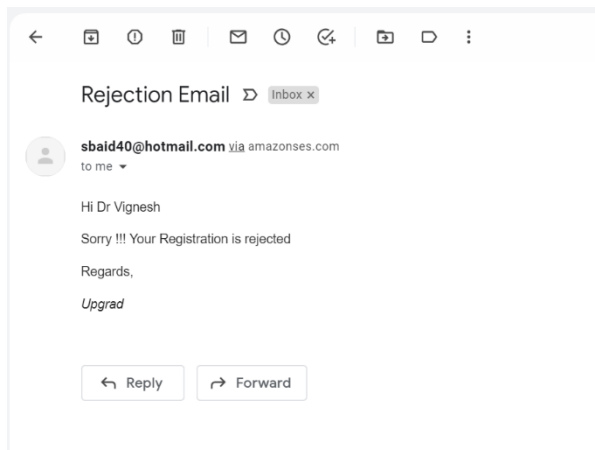
PUT `[_['capstone-ec2']] /doctors/abcd/reject` Send **400 Bad Request** 526 ms 64 B Just Now

JSON Auth Query Header 2 Docs Preview Header 9 Cookie Timeline

```
1 {
2   "approvedBy": "Shreyansh",
3   "approverComments": "Bad Doctor"
4 }
```

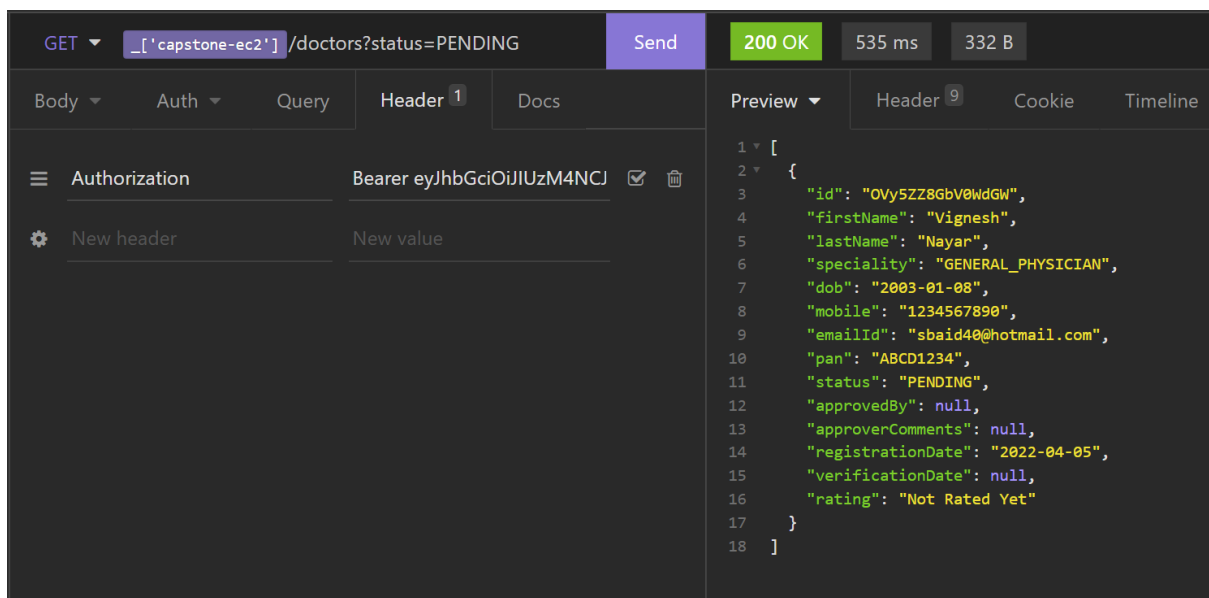
```
1 {
2   "errorCode": "ERR_DOCTOR_001",
3   "errorMessage": "Doctor Not Found"
4 }
```

400 Bad Request when the Doctor id provided does not exist



Email received for rejection

## End Point 5



All doctors with status pending



GET `_[ 'capstone-ec2' ] /doctors?status=ACTIVE` Send 200 OK 477 ms 355 B

Body Auth Query Header 1 Docs

Authorization Bearer eyJhbGciOiJIUzI4NCJ

New header New value

Preview Header 9 Cookie Timeline

```
1 [
2   {
3     "id": "maFRWciYqwPfDS0",
4     "firstName": "Shreyansh",
5     "lastName": "Baidh",
6     "speciality": "GENERAL_PHYSICIAN",
7     "dob": "1995-05-05",
8     "mobile": "1234567890",
9     "emailId": "sbaid40@gmail.com",
10    "pan": "ABCD1234",
11    "status": "ACTIVE",
12    "approvedBy": "Shreyansh",
13    "approverComments": "Good doctor",
14    "registrationDate": "2022-04-05",
15    "verificationDate": "2022-04-05",
16    "rating": "Not Rated Yet"
17  }
18 ]
```

All doctors with status active

GET `_[ 'capstone-ec2' ] /doctors?speciality=DENTIST` Send 200 OK 241 ms 322 B

Body Auth Query Header 1 Docs

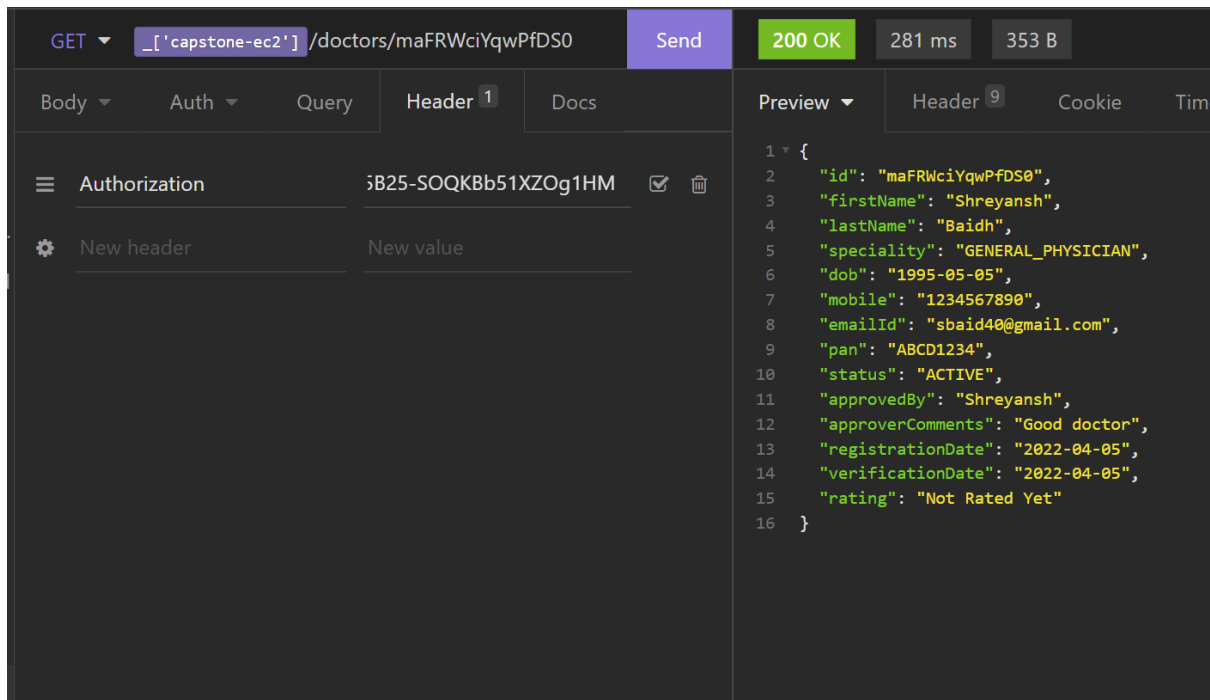
Authorization Bearer eyJhbGciOiJIUzI4NCJ

New header New value

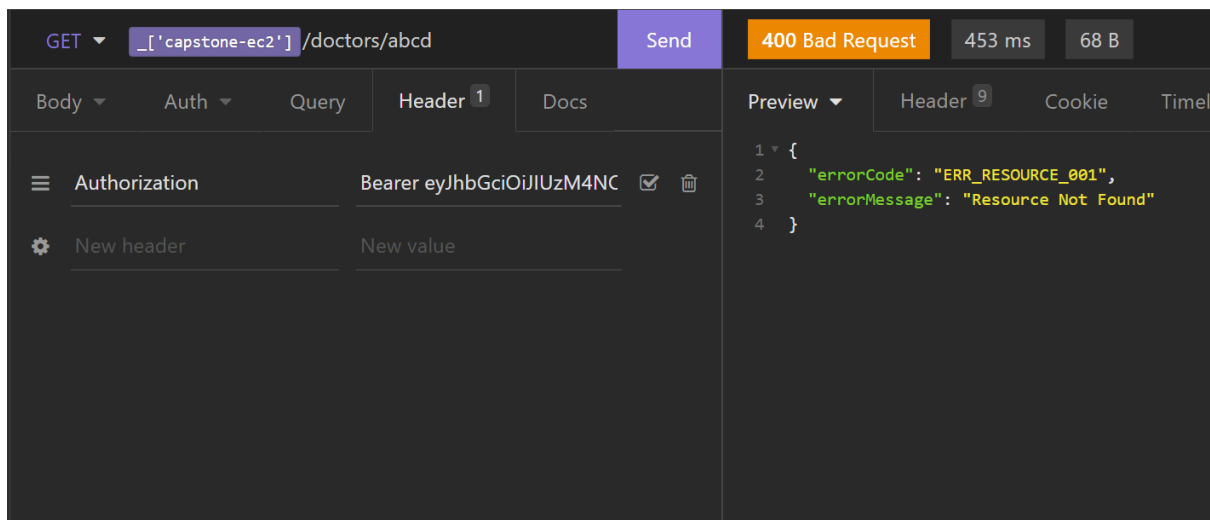
Preview Header 9 Cookie Timeline

```
1 [
2   {
3     "id": "OVySZ8GbV0WdGW",
4     "firstName": "Vignesh",
5     "lastName": "Nayar",
6     "speciality": "DENTIST",
7     "dob": "2003-01-08",
8     "mobile": "1234567890",
9     "emailId": "sbaid40@hotmail.com",
10    "pan": "ABCD1234",
11    "status": "PENDING",
12    "approvedBy": null,
13    "approverComments": null,
14    "registrationDate": "2022-04-05",
15    "verificationDate": null,
16    "rating": "Not Rated Yet"
17  }
18 ]
```

Doctor based on speciality



Doctor based on ID



Bad request when bad doctor ID is provided

# User Service

## End Point 1

A screenshot of a REST client interface. The top bar shows a POST request to `[_['capstone-ec2']]/users` with a status of **201 Created**, a response time of **1.98 s**, and a body size of **164 B**. The left pane shows the request JSON body: 

```
1 {
2   "firstName": "Shreyansh",
3   "lastName": "Baid",
4   "dob": "05-05-1995",
5   "emailId": "sbaid40@gmail.com",
6   "mobile": "7795625220"
7 }
```

 The right pane shows the response JSON body: 

```
1 {
2   "id": "UwdjksGtgj17Md0",
3   "firstName": "Shreyansh",
4   "lastName": "Baid",
5   "dob": "05-05-1995",
6   "mobile": "7795625220",
7   "emailId": "sbaid40@gmail.com",
8   "createdAt": "2022-04-05"
9 }
```

User registered with 201 status

A screenshot of a REST client interface showing a failed POST request. The top bar indicates a **400 Bad Request** status, a response time of **272 ms**, and a body size of **384 B**. The left pane shows the request JSON body: 

```
1 {
2   "firstName": "",
3   "lastName": "",
4   "dob": "05/05/1995",
5   "emailId": "s@2baid40@gmail.com",
6   "mobile": ""
7 }
```

 The right pane shows the response JSON body: 

```
1 {
2   "errorCode": "ERR_INVALID_PAYLOAD_001",
3   "errorMessage": "Invalid Payload in the request",
4   "errorFieldsList": [
5     "Mobile number is invalid",
6     "Student Name length should be between 5 and 20 characters",
7     "Student Name cannot be blank",
8     "Email is not valid",
9     "Student Name length should be between 5 and 20 characters",
10    "Student Name cannot be blank",
11    "Date of Birth should be in yyyy-mm-dd format"
12  ]
13 }
```

400 Bad request when bad data is provided

## ← Amazon Web Services – Email Address Verification Request in region US East (N. Virginia)



Amazon Web Services <no-reply-aws@amazon.com>

Tue 4/5/2022 11:22 AM

To: You

Dear Amazon Web Services Customer,

We have received a request to authorize this email address for use with Amazon SES and Amazon Pinpoint in region US East (N. Virginia). If you requested this verification, please go to the following URL to confirm that you are authorized to use this email address:

[https://email-verification.us-east-1.amazonaws.com/?Context=449708879210&X-Amz-Date=20220405T055237Z&Identity.IdentityName=sbaid40%40hotmail.com&X-Amz-Algorithm=AWS4-HMAC-SHA256&Identity.IdentityType=EmailAddress&X-Amz-SignedHeaders=host&X-Amz-Credential=AKIAVM67ZIEFRDECB3HF%2F20220405%2Fus-east-1%2Fses%2Faws4\\_request&Operation=ConfirmVerification&Namespace=Bacon&X-Amz-Signature=58d045a303bde9bf7e2cf3c234a55bc910b13f700d09da525da326560ad687fd](https://email-verification.us-east-1.amazonaws.com/?Context=449708879210&X-Amz-Date=20220405T055237Z&Identity.IdentityName=sbaid40%40hotmail.com&X-Amz-Algorithm=AWS4-HMAC-SHA256&Identity.IdentityType=EmailAddress&X-Amz-SignedHeaders=host&X-Amz-Credential=AKIAVM67ZIEFRDECB3HF%2F20220405%2Fus-east-1%2Fses%2Faws4_request&Operation=ConfirmVerification&Namespace=Bacon&X-Amz-Signature=58d045a303bde9bf7e2cf3c234a55bc910b13f700d09da525da326560ad687fd)

Your request will not be processed unless you confirm the address using this URL. This link expires 24 hours after your original verification request.

If you did NOT request to verify this email address, do not click on the link. Please note that many times, the situation isn't a phishing attempt, but either a misunderstanding of how to use our service, or someone setting up email-sending capabilities on your behalf as part of a legitimate service, but without having fully communicated the procedure first. If you are still concerned, please forward this notification to [aws-email-domain-verification@amazon.com](mailto:aws-email-domain-verification@amazon.com) and let us know in the forward that you did not request the verification.

To learn more about sending email from Amazon Web Services, please refer to the Amazon SES Developer Guide at <http://docs.aws.amazon.com/ses/latest/DeveloperGuide/Welcome.html> and Amazon Pinpoint Developer Guide at <http://docs.aws.amazon.com/pinpoint/latest/userguide/welcome.html>.

Sincerely,

The Amazon Web Services Team.

Verification mail received when user is created successfully

The screenshot shows the MongoDB Compass interface. On the left, the 'Local' sidebar displays the database 'BookMyConsultation' and its collections, including 'User'. The main panel shows the 'User' collection with a single document. The document contains the following fields:

```
1  _id: "UwdjksGtgjl7Md0"
2  firstName: "Shreyansh"
3  lastName: "Baid"
4  dob: "05-05-1995"
5  mobile: "7795625220"
6  emailId: "sbaid40@gmail.com"
7  createdAt: 2022-04-05T00:00:00.000+00:00
8  hasRatedDoctor: false
9  _class: "com.upgrad.userservice.model.User"
```

Data is successfully saved in the database

## End Point 2

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** `['capstone-ec2'] /users/UwdjksgTgjl7Md0`
- Status:** 200 OK
- Time:** 546 ms
- Size:** 164 B
- Headers:** Authorization: ZpKL9nUlvI8R2RIDjk7JupfN
- Body:**

```
{
  "id": "UwdjksgTgjl7Md0",
  "firstName": "Shreyansh",
  "lastName": "Baid",
  "dob": "05-05-1995",
  "mobile": "7795625220",
  "emailId": "sbaid40@gmail.com",
  "createdDate": "2022-04-05"
}
```

User data retrieved based on user id

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** `['capstone-ec2'] /users/abcd`
- Status:** 400 Bad Request
- Time:** 469 ms
- Size:** 60 B
- Headers:** Authorization: Bearer eyJhbGciOiJIUzI4NC
- Body:**

```
{
  "errorCode": "ERR_USER_001",
  "errorMessage": "User Not Found"
}
```

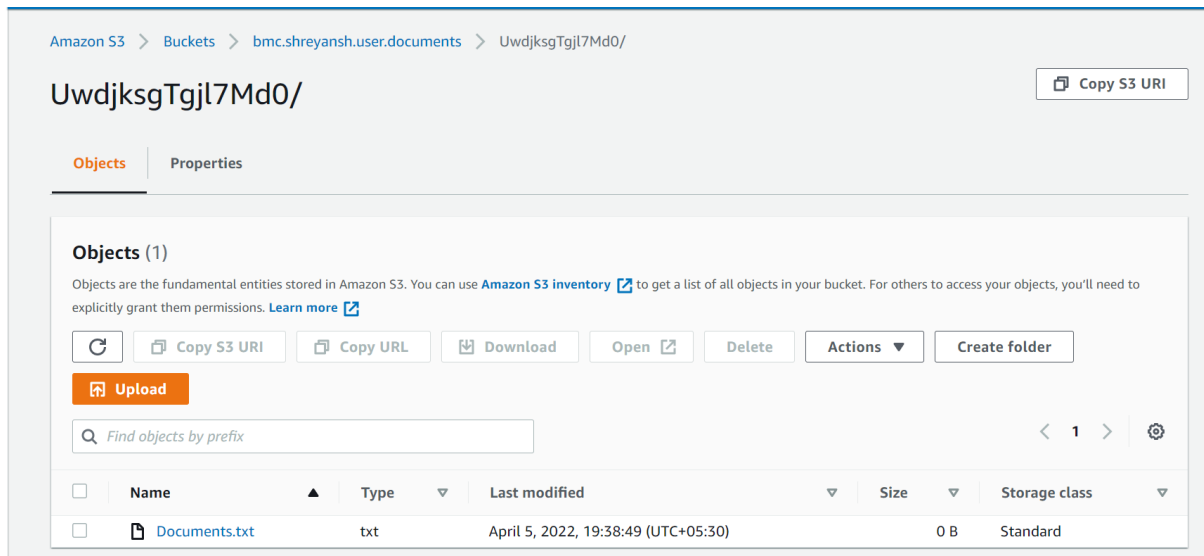
400 Bad request when unknown user id is passed

## End Point 3

The screenshot shows a REST client interface with the following details:

- Method:** POST
- URL:** `['capstone-ec2'] /users/UwdjksgTgjl7Md0/docur`
- Status:** 201 Created
- Time:** 991 ms
- Size:** 29 B
- Headers:** Authorization: Bearer eyJhbGciOiJIUzI4NC
- Body:** File(s) uploaded successfully

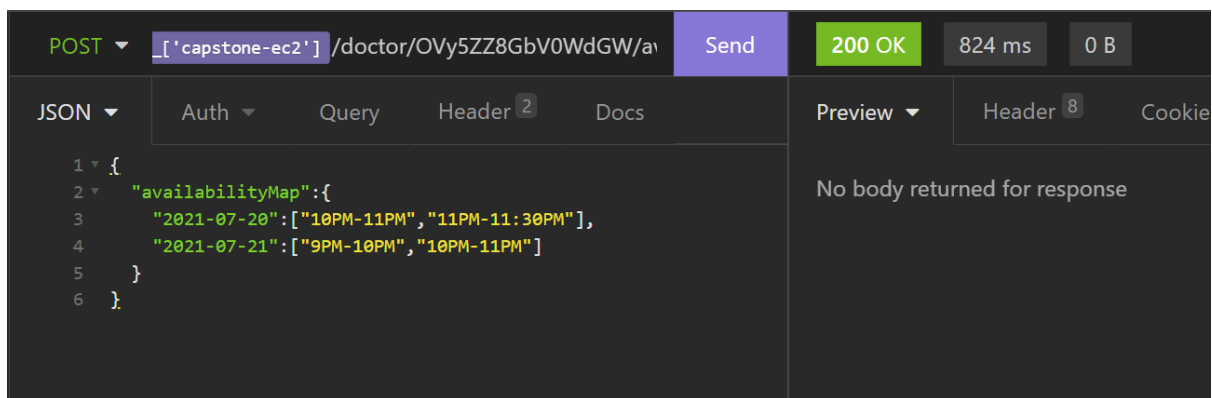
File is uploaded successfully for the user



Files successfully uploaded to S3

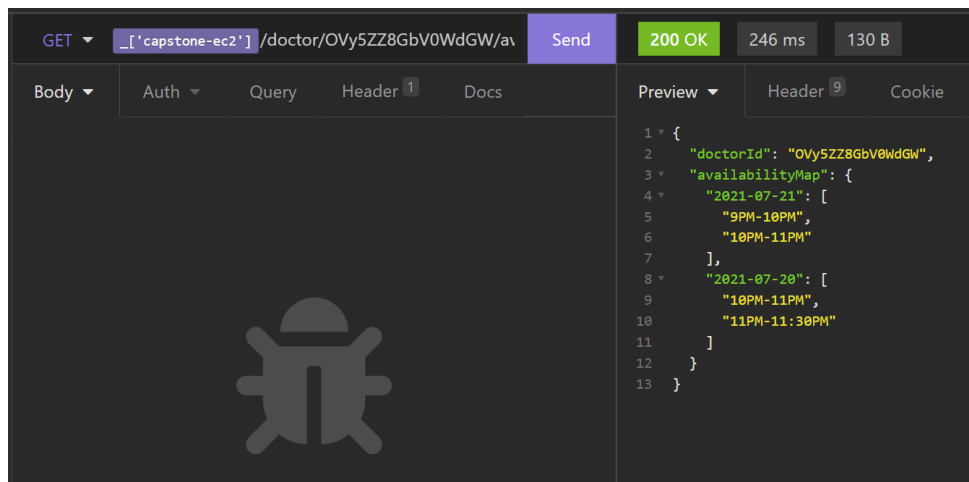
## Appointment Service

### End Point 1



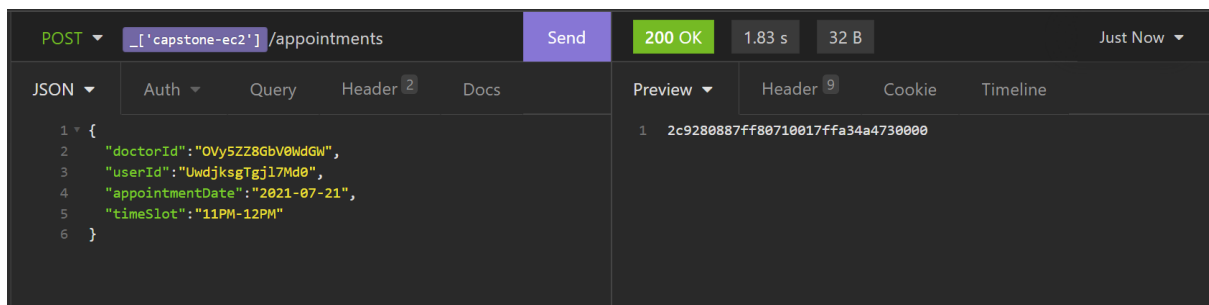
Availability updated for existing doctor

## End Point 2

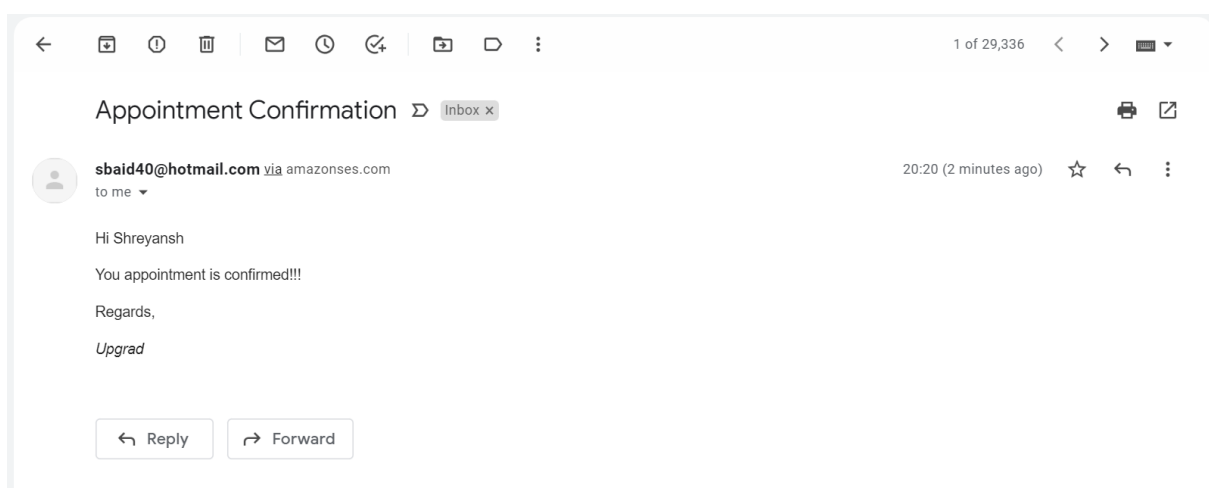


Availability map retrieved for doctor id

## End Point 3

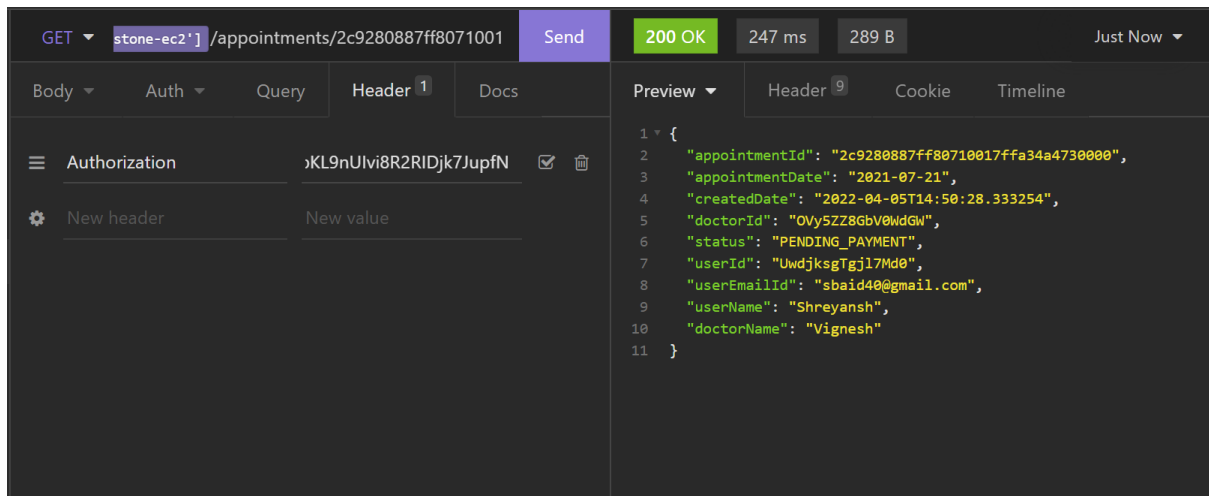


Appointment ID generated



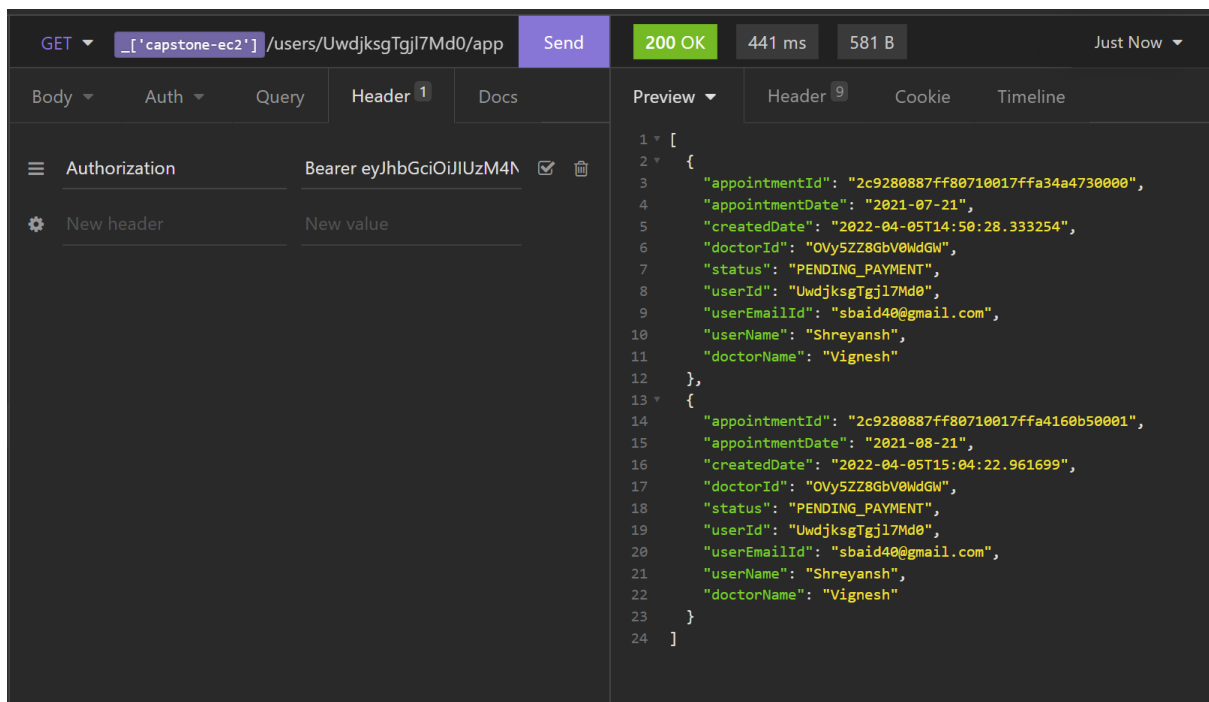
Appointment confirmation email received

### End Point 4



Appointment retrieved using appointment id with payment status pending

### End Point 5



All the appointment information retrieved for the particular user id



4

5 • `select * from bmc.appointment;`

appointment_id	appointment_date	created_date	doctor_id	doctor_name	prior_medical
2c9280887ff80710017ffa34a4730000	2021-07-21	2022-04-05 14:50:28.333254	OVy5Z28GbV0WdGW	Vignesh	NULL
2c9280887ff80710017ffa4160b50001	2021-08-21	2022-04-05 15:04:22.961699	OVy5Z28GbV0WdGW	Vignesh	NULL
NULL	NULL	NULL	NULL	NULL	NULL

Appointment data is saved in the database

## End Point 6

POST `_[ 'capstone-ec2' ] /prescriptions` Send **400 Bad Request** 470 ms 137 B Just Now

JSON Auth Query Header 3 Docs Preview Header 9 Cookie Timeline

```

1 {
2   "appointmentId": "2c9280887ff80710017ffa34a4730000",
3   "doctorId": "OVy5Z28GbV0WdGW",
4   "userId": "UwdjksgTgj17Md0",
5   "diagnosis": "Fever",
6   "medicineList": [
7     {
8       "name": "Calpol",
9       "dosage": "1 tab",
10      "frequency": "3 times",
11      "remarks": "mar jayega kha le"
12    }
13  ]
14 }

```

```

1 {
2   "errorCode": "ERR_PAYMENT_PENDING",
3   "errorMessage": "Prescription cannot be issued since payment
4     status is pending",
5   "errorFieldsList": null
6 }

```

Prescription created for an appointment with pending payment status

POST `_[ 'capstone-ec2' ] /prescriptions` Send **200 OK** 596 ms 0 B Just Now

JSON Auth Query Header 3 Docs Preview Header 8 Cookie Timeline

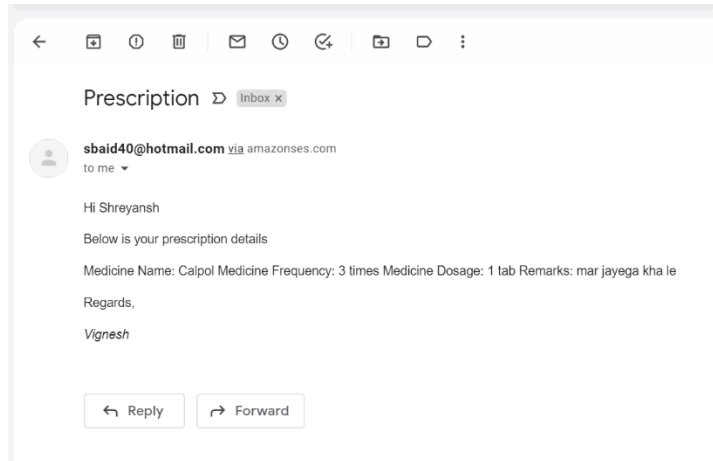
```

1 {
2   "appointmentId": "2c9280887ff80710017ffa4160b50001",
3   "doctorId": "OVy5Z28GbV0WdGW",
4   "userId": "UwdjksgTgj17Md0",
5   "diagnosis": "Fever",
6   "medicineList": [
7     {
8       "name": "Calpol",
9       "dosage": "1 tab",
10      "frequency": "3 times",
11      "remarks": "mar jayega kha le"
12    }
13  ]
14 }

```

No body returned for response

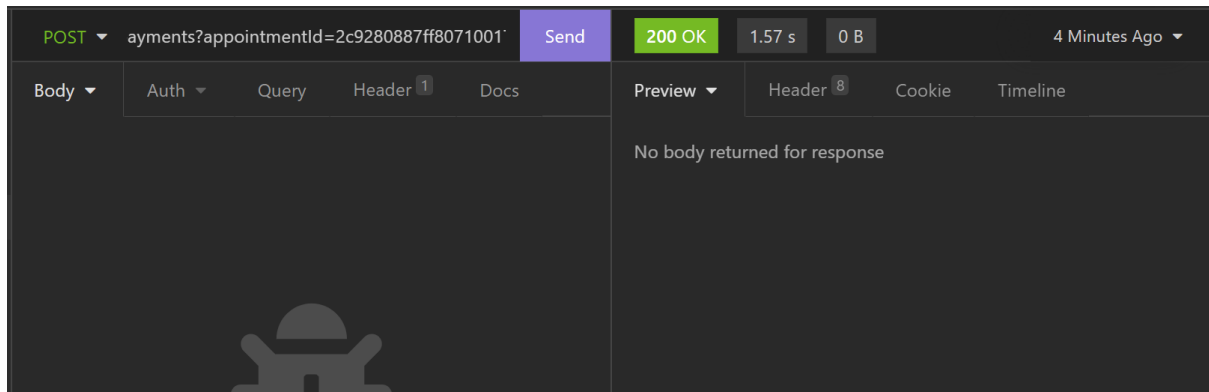
Prescription created for appointment status with Confirmed



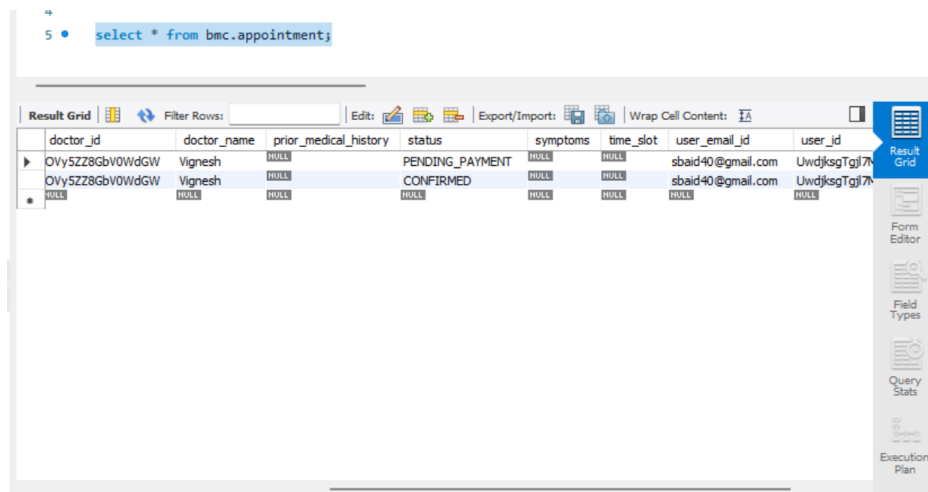
Prescription sent to the user with confirmed payment status

## Payment Service

### End Point 1



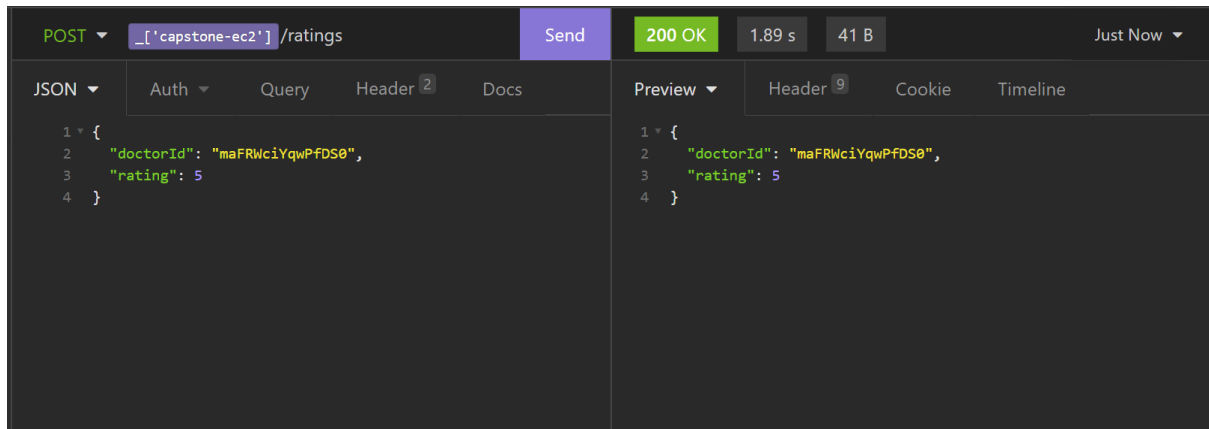
Payment done for the provided appointment id



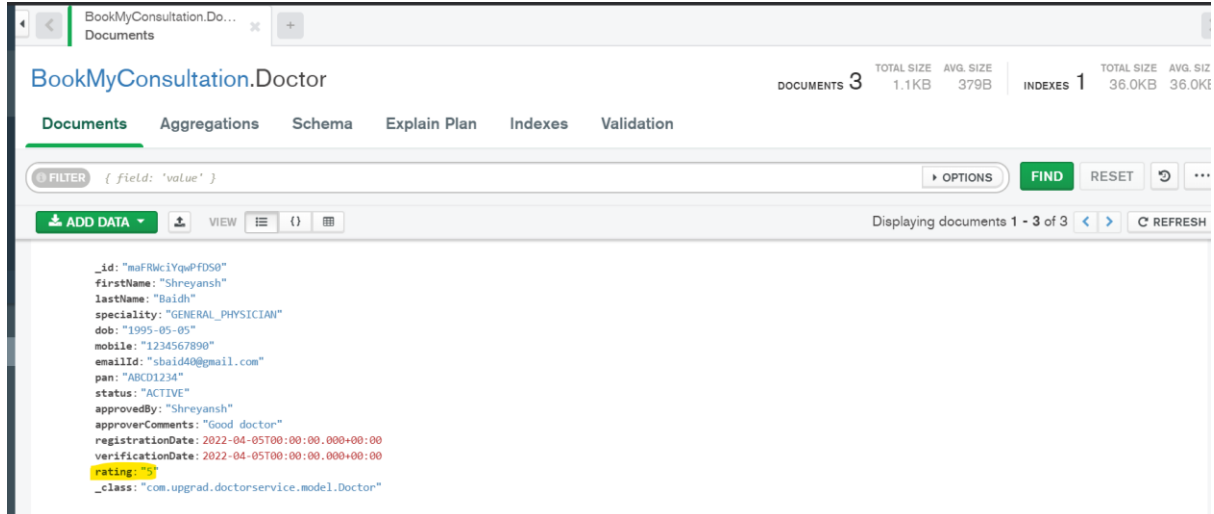
Payment status is updated in the database

# Rating Service

## End Point 1



Rating done for the doctor id passed



Rating updated in the database listening to the kafka topic RATING

## Notification Service

All the verification email for user and doctor, doctor approval ,doctor rejection, appointment and prescription emails attached above are sent by the notification service that is listening to the respective microservices.

## API Gateway Service

All the services can be access via API Gateway on 9191 port.

## Auth Service

This micro-service can be used to get the token on /oauth/token URL

## Docker

```
1 version: '3.3'
2 #Define services
3 services:
4   api-gateway:
5     build: api-gateway
6     container_name: api-gateway
7     image: bookmyconsultation/api-gateway:1.0.0
8     ports:
9       - "9191:9191"
10    networks:
11      - microservicesnet
12    depends_on:
13      - eureka-service
14      - kafka
15      - database
16    appointment-service:
17      build: appointment-service
18      container_name: appointment-service
19      image: bookmyconsultation/appointment-service:1.0.0
20      ports:
21        - "8086:8086"
22      networks:
23        - microservicesnet
24      depends_on:
25        - eureka-service
26        - kafka
27        - database
28      auth-service:
29        build: auth-service
30        container_name: auth-service
31        image: bookmyconsultation/auth-service:1.0.0
32        ports:
33          - "8081:8081"
34        networks:
35          - microservicesnet
36        depends_on:
37          - eureka-service
38      doc-service:
39        build: doc-service
```

Snapshot of docker compose file

```
docker-compose.yml Dockerfile
1 FROM maven:3.8.1-jdk-11 as build
2 WORKDIR /usr/src/BookMyConsultation/api-gateway
3 COPY src /usr/src/BookMyConsultation/api-gateway/src
4 COPY pom.xml /usr/src/BookMyConsultation/api-gateway
5 RUN mvn -f /usr/src/BookMyConsultation/api-gateway/pom.xml clean package
6
7 FROM openjdk:14-jdk-alpine
8 MAINTAINER upgrad
9 WORKDIR /home/ubuntu/BookMyConsultation/api-gateway
10 COPY --from=build /usr/src/BookMyConsultation/api-gateway/target/api-gate
11 WORKDIR /usr/src/BookMyConsultation/api-gateway
12 ENV PATH = "${PATH}:${JAVA_HOME}/bin"
13 ENTRYPOINT [ "java", "-jar", "/usr/src/BookMyConsultation/api-gateway/api
```

Snapshot of the multi-stage Docker file for API-Gateway

```
root@ip-10-0-0-93: ~
root@ip-10-0-0-93:~# docker images
REPOSITORY                                TAG                IMAGE ID           CREATED           SIZE
bookmyconsultation/doctor-service         1.0.0             a4c4466487e9      3 hours ago      682MB
<none>                                    <none>            ac9e3fd57fef      3 hours ago      1.46GB
<none>                                    <none>            222c72a31554      5 hours ago      1.46GB
bookmyconsultation/api-gateway            1.0.0             8b600d79e3fa      11 hours ago     379MB
<none>                                    <none>            7eb59019f975      11 hours ago     780MB
bookmyconsultation/appointment-service    1.0.0             b0a95927f689      11 hours ago     698MB
<none>                                    <none>            b63701bf7d36      11 hours ago     1.48GB
<none>                                    <none>            e951dabec941      11 hours ago     1.46GB
bookmyconsultation/payment-service        1.0.0             3e1b794df827      11 hours ago     625MB
<none>                                    <none>            8a60b18944f1      11 hours ago     1.34GB
bookmyconsultation/rating-service         1.0.0             e6d6e459e2e8      11 hours ago     416MB
<none>                                    <none>            7812355e1416      11 hours ago     925MB
bookmyconsultation/user-service           1.0.0             4a386e59b71b      11 hours ago     682MB
<none>                                    <none>            758b38b679ae      11 hours ago     1.46GB
bookmyconsultation/notification-service   1.0.0             e97a5cbb8d3a      11 hours ago     407MB
<none>                                    <none>            0c5db41eccfe      11 hours ago     837MB
bookmyconsultation/auth-service           1.0.0             44648b50612c      11 hours ago     389MB
<none>                                    <none>            1d33f17d5da1      11 hours ago     804MB
bookmyconsultation/eureka-service         1.0.0             7622b292e101      11 hours ago     385MB
<none>                                    <none>            f52afbb443d0      11 hours ago     792MB
bitnami/kafka                            latest            677d6891b360      42 hours ago     618MB
bitnami/zookeeper                        latest            bf39da566e75      42 hours ago     469MB
mysql                                     8.0              667ee8fb158e      6 days ago       521MB
mongo                                     latest           798d1656acba      2 weeks ago      698MB
maven                                     3.8.1-jdk-11     5b508b1fe19e      8 months ago     659MB
openjdk                                  14-jdk-alpine    8273876b08aa      2 years ago      340MB
root@ip-10-0-0-93:~#
```

Screenshot of the docker images created on EC2

```
root@ip-10-0-0-93:~# docker ps -a
CONTAINER ID   IMAGE                                     COMMAND                  CREATED        STATUS        PORTS
1526902d003a   bookmyconsultation/doctor-service:1.0.0 "java -jar /usr/src/..." 3 hours ago   Up 3 hours   0.0.0.0:8083->8083/tcp, :::8083->8083/tcp
dd4d124f5510   doc-service                             "java -jar /usr/src/..." 11 hours ago   Up 11 hours   0.0.0.0:8080->8080/tcp, :::8080->8080/tcp
361e19fca9b5   bookmyconsultation/notification-service:1.0.0 "java -jar /usr/src/..." 11 hours ago   Up 11 hours   0.0.0.0:8084->8084/tcp, :::8084->8084/tcp
f671ed8e0bb4   bookmyconsultation/payment-service:1.0.0 "java -jar /usr/src/..." 11 hours ago   Up 11 hours   0.0.0.0:8082->8082/tcp, :::8082->8082/tcp
a9a6941983d2   bookmyconsultation/user-service:1.0.0    "java -jar /usr/src/..." 11 hours ago   Up 11 hours   0.0.0.0:8086->8086/tcp, :::8086->8086/tcp
ced3e4bfa3ae   bookmyconsultation/api-gateway:1.0.0    "java -jar /usr/src/..." 11 hours ago   Up 11 hours   0.0.0.0:8086->8086/tcp, :::8086->8086/tcp
139da04eb8ba   bookmyconsultation/appointment-service:1.0.0 "java -jar /usr/src/..." 11 hours ago   Up 11 hours   0.0.0.0:8085->8085/tcp, :::8085->8085/tcp
6b2319c24a30   bookmyconsultation/rating-service:1.0.0 "java -jar /usr/src/..." 11 hours ago   Up 11 hours   0.0.0.0:8085->8085/tcp, :::8085->8085/tcp
bae1a5b851f8   bookmyconsultation/auth-service:1.0.0    "java -jar /usr/src/..." 11 hours ago   Up 11 hours   0.0.0.0:8081->8081/tcp, :::8081->8081/tcp
98892136c1c4   bitnami/kafka:latest                    "/opt/bitnami/script..." 11 hours ago   Up 11 hours   0.0.0.0:9092->9092/tcp, :::9092->9092/tcp
p, 8080/tcp    bookmyconsultation/kafka_1              "/opt/bitnami/script..." 11 hours ago   Up 11 hours   2888/tcp, 3888/tcp, 0.0.0.0:2181->2181/tcp, :::2181->2181/tcp
c867715b3c88   bitnami/zookeeper:latest                "docker-entrypoint.s..." 11 hours ago   Up 11 hours   0.0.0.0:27017->27017/tcp, :::27017->27017/tcp
66186a6b1e32   bookmyconsultation/zookeeper_1           "docker-entrypoint.s..." 11 hours ago   Up 11 hours   0.0.0.0:27017->27017/tcp, :::27017->27017/tcp
729540e4d2d4   bookmyconsultation/mongodb_container_1   "java -jar /usr/src/..." 11 hours ago   Up 11 hours   0.0.0.0:8761->8761/tcp, :::8761->8761/tcp
database      mysql:8.0                               "docker-entrypoint.s..." 11 hours ago   Up 11 hours   0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp
root@ip-10-0-0-93:~#
```

Screenshot of all the docker containers created