MICROSERVICES ASSIGNMENT SUBMISSION

Pull Docker Images of All Microservices from Docker Hub

```
docker pull dpcode72/orderapi:1.0
docker pull dpcode72/cartapi:4.0
docker pull dpcode72/productapi:2.0
docker pull dpcode72/authapi:3.0
docker pull dpcode72/apigateway:5.0
```

 After Pulling Docker images of All Microservices then Please Create a custom Network using command because I used custom network that is (172.20.0.1)

```
sudo docker network create --driver bridge nagarroAss
```

- After this Please you wish to run any of above images of Microservices then Please use below command to run sudo docker run -p 7000:80 --network nagarroAss dpcode72/apigateway:5.0
- As you can see above command that is used to run apigateway(Ocelot) Service & So you will wish to run further images then please use below Command
- Rest of all command to run the Docker Images like ProductAPI,
 CartAPI, AuthAPI & OrderAPI

```
sudo docker run -p 8082:80 --network nagarroAss
dpcode72/productapi:2.0
sudo docker run -p 8081:80 --network nagarroAss
dpcode72/authapi:3.0
```

```
sudo docker run -p 8083:80 --network nagarroAss
dpcode72/cartapi:4.0
sudo docker run -p 8084:80 --network nagarroAss
dpcode72/orderapi:1.0
```

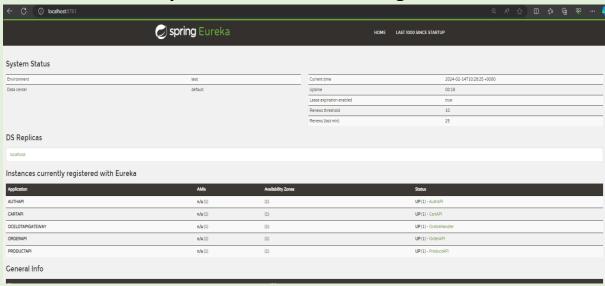
 Please, Also Run two Commands to let Microservice be registered on EUREKA As well as TO communicate Microservice to each other with help of Message Broken Service (RabitMQ).

Commands are Below:-

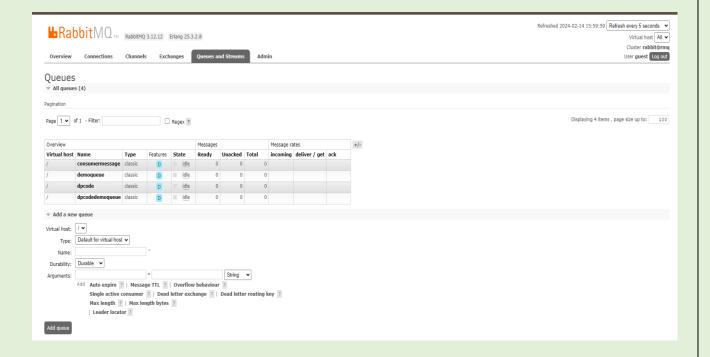
```
//RabbitMQ
docker run -d --hostname rmq --name rabbit-server -
p 9000:15672 -p 5672:5672 rabbitmq:3-management
//EUREKA
docker run --publish 8761:8761 steeltoeoss/eureka-
server
```

 After Running all above Commands you can see such interface on <u>Eureka Server</u> Where all Services are register On Eureka As well as you can also see <u>Message Broken Service</u> on Web Browser Queue are generated on name of <u>Consumermessage</u>

EUREKA UI Where you can all Services are registered.



As you can also see the Message Broken Service(Rabbitmq)

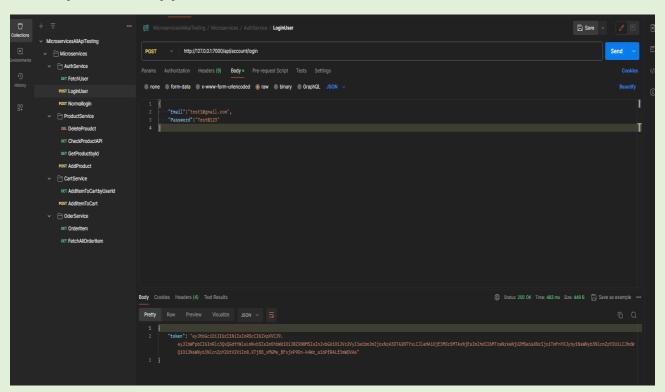


For shake of understanding of Rabbitmq I tried to make Service Communicate to each other like ProductAPI Service is communicating with OrderAPI Service

As you can see in below Images



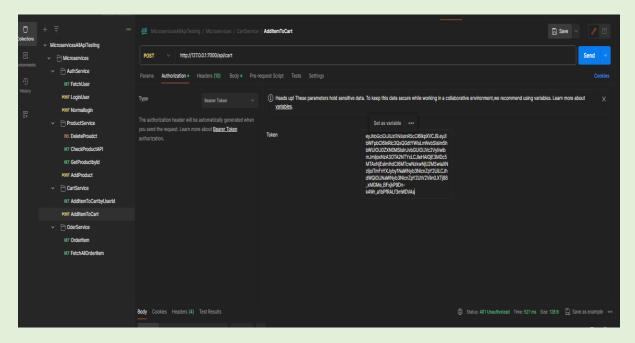
Import the postman collection named "Microservices All ApiTesting" in the postman application.



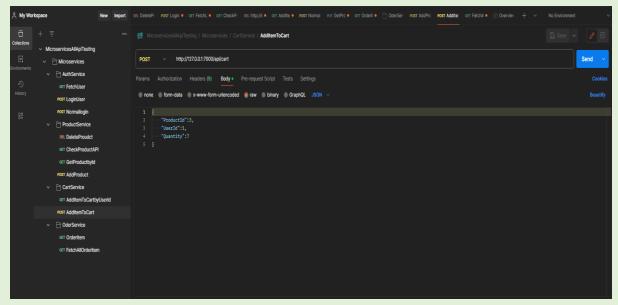
Now, after giving right credentials for login as you can see that user will get jwt token to access the Microservices Service such Proudct

Service, Cart Service & Order Service, but passing Jwt token with every request to get authorized to use service like add item to cart & place order & so on....

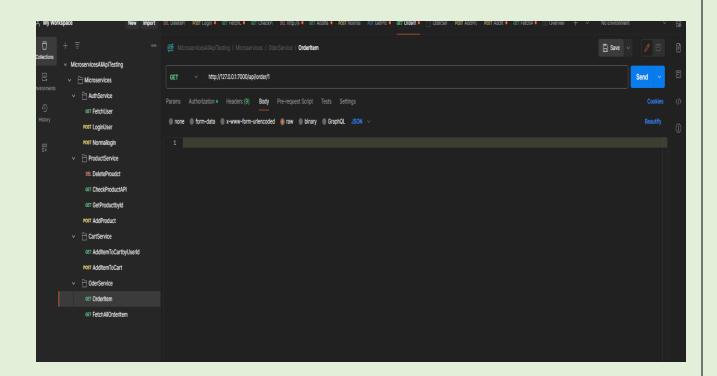
As you can see in below images of POSTMAN like how things are working



Here you can see that user trying to add item to cart



Later user can place order which he/she added to the cart as you can see in below images of POSTMAN like how things are working



For more information such you will like to know like EUREKA, Message Broken Service & My Docker Hub Repository

I am giving reference of all those below please check in case you found something messing or anything

EUREKA DASHBOARD URL

http://localhost:8761/

MESSAGE BROKEN SERVICE URL

http://localhost:9000/#/connections

MY DOCKER HUB REPOSITORY URL

https://hub.docker.com/u/dpcode72