Microservices Project

This project was developed as part of a microservices course. It demonstrates the implementation of various microservices, each with specific functionalities, and their orchestration using Docker and Docker Compose.

Microservices

1. Eureka Server

Service Discovery Server

Port: 8761

2. Product Service

Manages products and their details

Port: 8081

3. Cart-Orders Service

Manages cart and orders

o Port: 8085

4. Review Service

Manages product reviews

o Port: 8086

5. Auth Service

Handles authentication

Port: 8082

6. Gateway Service

API Gateway for routing

Port: 8083

Prerequisites

Java 17

- Maven
- Docker
- Docker Compose

Setup and Execution

Follow these steps to set up and run the project:

1. Clean and Package the Applications

Navigate to the root directory and run:

mvn clean package -DskipTests

2. Build Docker images

In the root directory, run the bash script:

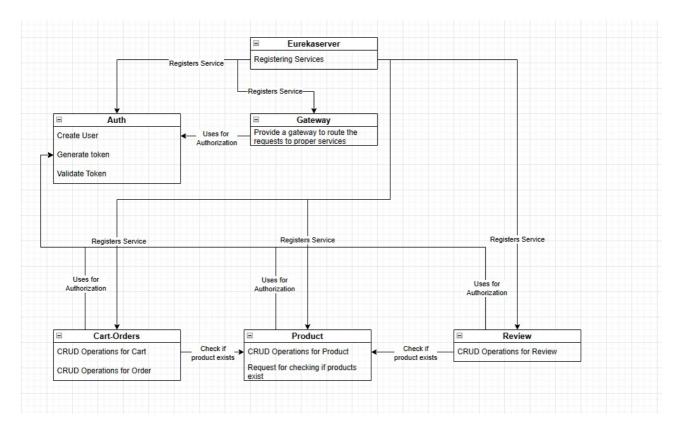
```
./build_docker_images.sh
```

3. Start the services

In the root directory, use Docker Compose to start the services

```
docker-compose down
docker-compose up -d
```

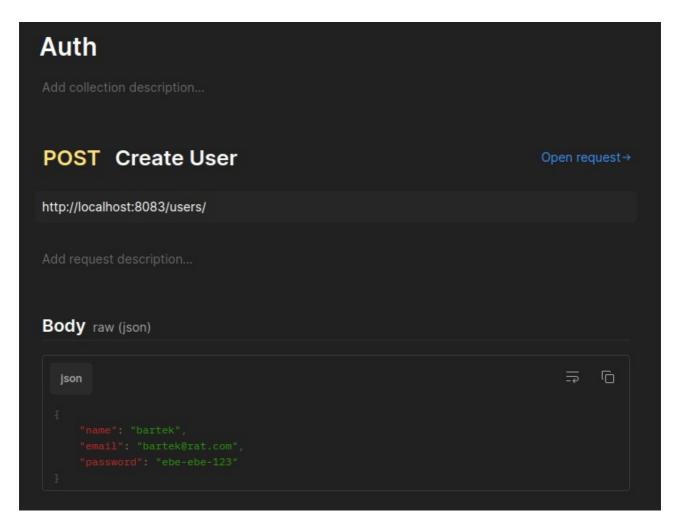
Architecture



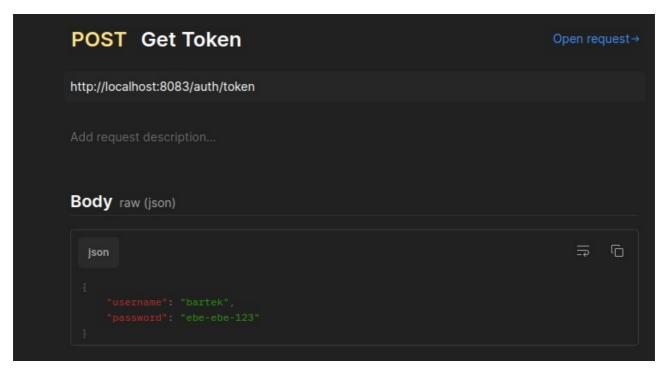
Example endpoints

detailed API documentation for each service is available in .json format

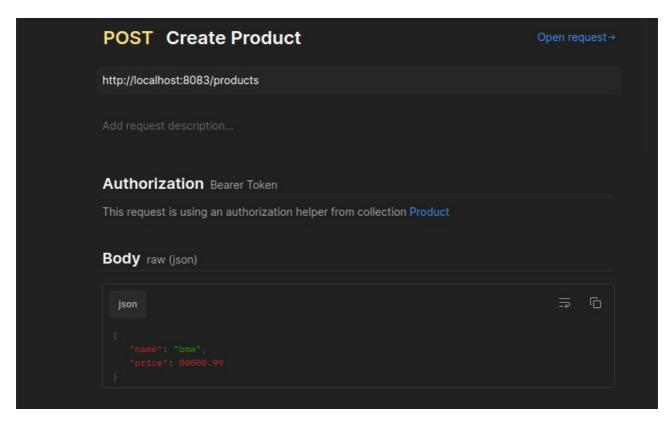
- docs/Auth.postman_collection.json
- docs/Product.postman_collection.json
- docs/Cart-Orders.postman collection.json
- docs/Review.postman_collection.json
- 1. Auth service
- create user



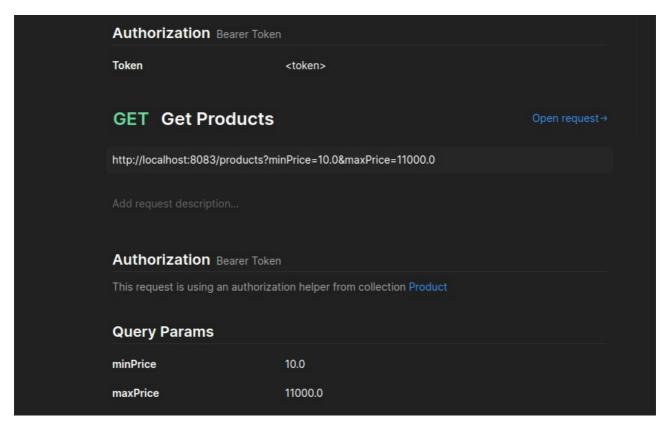
· get the token



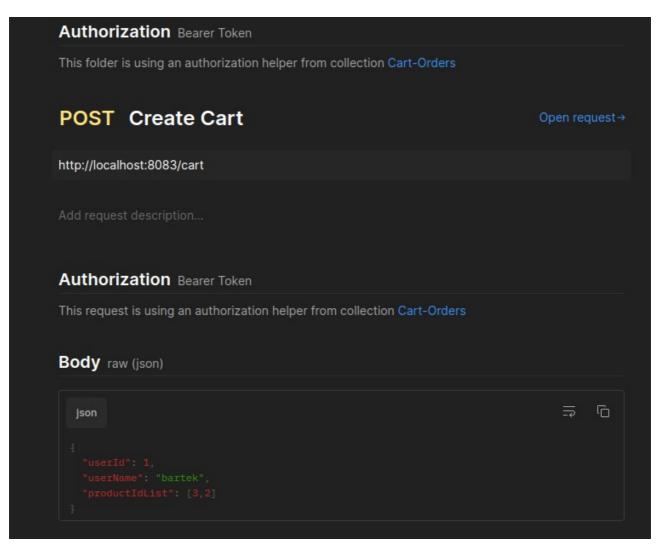
- 2. Procuct service
- create product



• filter products



- 3. Cart-Orders service
- create cart



• get full cart

