Microservice

Homework-2

Recap

Part 1
1. Introduction to Microservices
2. Setting up the Inventory Management System
3. Service Registration with Eureka
4. Spring Cloud API Gateway
5. Open Feign Microservice Communication
6. Circuit Breaker and Retry with Resilience4J

Part 2
1. API Gateway Filters
2. Authentication with API Gateway Filters
3. Distributed tracing with Zipkin and Micrometer
4. Centralized Logging with ELK stack
5. Centralized Configuration Server using GitHub

Homework

1. Implement a custom API Gateway *Authorization* to intercept the coming request, get the X-User-Roles header, parse the JWT token inside the header to get the userRoles. Allow users with the required roles to access the downstream services.

2. Implement distributed tracing with Zipkin and Micrometer in the ECommerce Application.

Homework

3. Learn more about <u>ElasticSearch</u> and <u>Kibana Dashboards</u>

4. Create a configuration service to hold all the configurations of your microservices at a centralized location. Look for the common configurations in your microservices and put the common configurations in the application.yml