

Microservice(s) Development and Coordination

Spring Boot And Spring Cloud

1. Introduction Software Applications
 - a. Enterprise Architecture
 - b. SOA Architecture
2. Explanation on Monolithic application and disadvantages
3. Introduction to REST API
4. Domain Driven Design
5. Introduction to Microservice /Architecture
6. Microservice core characteristics and popularity
7. Questionaries' on Microservice
8. Microservice development in Java domain
9. Spring Boot Introduction
 - a. Spring Boot Advantages
 - b. Demo: Develop Spring Boot based applications
10. Spring Boot + Swagger
 - a. Introduction to Swagger
 - b. Demo: Spring Boot with Swagger
11. Monitoring Spring applications
 - a. Demo: Spring Actuators
12. Microservice : Spring Cloud Fundamentals
13. Develop Microservice Using Spring Cloud
14. Case Study Architecture: Build project based on Spring Cloud
15. Spring Config Server
 - a. Demo: Local files Config server
 - b. Demo: Github config server
 - c. Consuming configurations using Spring boot app
16. Distributed Tracing
 - a. Spring Cloud Sleuth
 - b. Spring Cloud Zipkin
 - c. Demo
17. Spring Eureka Registry
 - a. Introduction of Eureka Registry
 - b. Demo: Eureka Registry
18. Circuit Breaker : Spring Cloud Hystrix
 - a. Intro to Spring Cloud Circuit Breaker
 - b. Demo Spring cloud Hystrix
19. Load balancer : Spring Cloud Ribbon
 - a. Intro to Spring Cloud Ribbon
 - b. Demo Spring cloud Ribbon
20. API gateway : Spring Cloud Zuul
 - a. Intro to API gateway
 - b. Why need to API gateway
 - c. Demo with API gateway
21. Spring Cloud Stream
 - a. Introduction Spring Cloud Stream
 - b. Publish Message with Rabbit MQ
 - c. Consume Message with Rabbit MQ

