Microservices Training Course

About Course

This course guides you on the path on becoming a web developer on Java (J2EE) with the knowledge of Microservices.

Target Audience

The Microservices Training Course has been designed for people having prior knowledge of SpringBoot. This course benefits experienced personnel willing to achieve careers as a Software Developer, Web Application Developer on Java, Java Backend Developer, Full Stack Developer.

Pre-Requisite

The candidate should have prior experience in Spring Boot shall be counted beneficial.

Good-to-have Skills

Hands-on experience on any programming language Idea on Object Oriented Programming concept (OOPs)

Course Curriculum

1. Introduction to Microservices

Introduction To MicroServices
Microservices in nutshell

Hands On:

Creating an account with Oracle

Downloading and Installation of Oracle Java™ JDK

Creating environmental variable JAVA_HOME and setting classpath

2. Types of Architectures in Microservices

REST Architecture principles
Microservice Characteristics
Inter-Process Communications
Microservice Transaction Management

Hands On:

Writing Hello World program

Compilation through Command Line (CLI)

3. Design in Microservices

Domain Driven Design

Big Mud Ball to Sweet Gems

Untangling the Ball of MUD

Kill the MUD Ball growth

Repackaging/Refactoring

Decouple the User interface and Backend Business Logic

MUD Ball to Services

Microservice Design Patterns

Microservice Architecture Decisions

Hands On:

Spring Data Rest and HATEOAS

Connecting to an Elasticsearch Server

Searching our Elasticsearch Server

4. Security in Microservices

Importance of Security in real world Applications

Principles of Microservice Security

Techniques of Microservice Security

Introduction to Access Tokens

Implementing Oauth 2.0

How to secure a Microservice using OAuth 2.0

Hands On:

Securing a real time application Microservices security

5. Testing in Microservices

Different Testing scenarios and strategy

Testing at Different Levels

Hands On:

Implementing testing techniques on a Real Application