

Topics	Topics covered
<b>Day 1</b>	
· Introduction About Course	done
· Tools Set up and Validation	done
· Git Setup and introduction	done
· Maven Introduction	done
· IntelliJ Setup	done
· Introduction To Project	done
Lab: First maven java project	done
<b>Day 2</b>	
· Introduction To Microservice	
· Spring.io introduction	
· Springboot Annotation	
· Docker Introduction and validation	
· First Microservice springboot	
· Postman Setup and use	
· Hand-on lab on tools. First SpringBoot microservice	
<b>Day 3</b>	
· Micro Services Architecture	
· 12 Factor Apps	
· Microservice design pattern and its implementation	
· Spring Boot Controller	
· Service Distribution	
· Security	
· Create Simple spring boot Application with controller	
<b>Day 4</b>	
· Create Rest Api Spring boot and its usage	
· Microservice Containerization	
· Benefit and usage of Containerization	
· Micro service in cloud world	
· Lab on Docker containerization.	
<b>Day 5</b>	
· Spring Boot : Annotation	
· Dependency Injection	
· Writing Test cases	
· Lab With Spring boot annotation and DI	
<b>Day 6</b>	
· Spring Boot : properties	
· Spring boot environment variable	
· DI with Spring Boot	
· Spring Boot Rest communication	
· Lab With Spring boot rest Communication	
<b>Day 7</b>	
REST API:	
· Spring Boot REST Controller	

· GET API	
· POST/PUT API	
· Lab on GET POST and PUT	
<b>Day 8</b>	
REST API:	
· DELETE API	
· Path Parameters	
· Header Parameters	
· Query Parameters	
· Lab to create Full controller Rest Api Microservice	
<b>Day 9</b>	
SQL Data Base With SpringBoot :	
· SQL database (Mysql)	
· Spring Data Library Crud repository	
· Database annotation	
· Database Configuration	
· Lab With Spring boot and Database SQL	
Day 10	
NOSql Data Base With Spring Boot :	
· Nosql database	
· Spring Data Library Mongo repository	
· MongoDB	
· Database Configuration	
· Lab With Spring boot Nosql	
<b>Day 11</b>	
· Design patterns :	
· Service discovery	
· Load balancer	
· Eureka service Discovery load balancing	
· Lab with Service discovery	
Day 12: Micro service Inter Communication(Active MQ)	
· Inter communication between micro service	
· Micro service Messaging	
· ActiveMQ Producers	
· ActiveMQ Consumers	
· Lab with message communication ActiveMQ	
Day 13: Micro service Inter Communication(Rabbit MQ)	
· Inter communication between micro service	
· Micro service Messaging	
· RabbitMq Producers	
· Rabbit Consumers	
· Lab with message communication RabbitMQ	
Day 14 : Docker and cloud deployment	
· Introduction to Docker	

· Architecture	
· Docker hub and registry	
· Docker file	
· Docker compose	
· Images and containers	
Lab: Springboot docker push pull and deployment	
Day 15: Testing	
Unit Testing With security	
Integration Testing	
Component Testing	
Day 16: Mini project Support and help	