INTRODUCTION TO SPRING BOOT AND MICROSERVICES
By Dr. Vishwanath Rao

Spring Boot, Micro Services Training Content

Introduction to spring boot
- Types of software architectures
- SOA and Monolith Architecture
- Why Microservices
- Detailed MicroService Architecture
  – App Layer
  – Business Layer
- Enteprise Layer
  – Infra Layer
- Need of Spring Boot
- Difference between Spring & Spring Boot
- Advantages with Micro Services

BUILDING WEB APPLICATIONS IN SPRING BOOT
- Spring MVC Controllers
- Using ModelAttributes
- @RequestMapping and @RequestParam
- Using a ModelAndView
- Using images and templates for views
- Using an Embedded database with JdbcTemplate
- Executing Sql scripts
- Using a production database
- JPA Data and JPA Repositories

Micro Services
- Introducing Micro Services and its Benefits & Challenges
- Building a Microservice-Simple application
- Architecting Microservices

- Module introduction
- Components of a Microservice
- Identifying Microservice Boundaries
- Hosting Microservices
- Running Microservices Locally in Containers
- Service Discovery & Testing Microservices
- Microservice Communication Patterns (Synchronous & Asynchronous)
- Resilient Communication Patterns