

## SPRING TRAINING COURSE CONTENT

### SECTION1: SPRING ARCHITECTURE

- Spring Framework definition
- Spring Framework design principals
- Spring interfaces
- Bean Factory
- Application Context
- Factory methods

### SECTION2: INVERSION OF CONTROL

- Dependency Injection advantages
- Setter Injection
- Constructor Injection
- Bean Life Cycle
- Inner Beans
- References to other beans
- Scopes in Spring



#### ***Real-time Practicals***

1. Create the car object with color, make and model Assign the object values through Dependency Injection. Using IOC print the car details

### SECTION3: AUTOWIRING & SPRING MISCELLANEOUS

- Autowiring advantages and modes
- Spring With Collections
- Reading values from Properties file
- Expression Language in Spring
- Events Handling in Spring



#### **Real-time Practicals**

1. Create the class having List, Set and Map objects. Inject the values to Collections using Spring Configuration.

### **SECTION4: AOP**

- Spring AOP Advantages
- AOP Configuration
- AOP Terms
- AOP Types of Advices



#### **Real-time Practicals**

1. Take ATM application. Analyze and Cross cut the tasks. For Ex (Welcome Screen, Show the different options to user, Asking Pin Number, showing balance, withdraw the amount etc.,) Make ATM application in efficient way using AOP.

### **SECTION5 : SPRING JDBC**

- JDBC Templates
- Row Mapper
- BeanProperty Row Mapper
- Bean Row Mapper
- Resultset Extractor



#### **Real-time Practicals**

1. Display all Customer Details and display particular customer based on conditions by using different JDBC templates.

### **SECTION6: SPRING ORM**

- Database access layer for object, relational databases
- Spring Framework Benefits with hibernate
- Spring with Hibernate configuration files
- SpringData JPA
- Crud Repository and JPA Repository



### **Real-time Practicals**

1. Store the employee record using Spring with hibernate.
2. Find the employee record based on different conditions using JPA Repository methods.  
For example: Find the employee record based on first name, mail address, Find top 10 salary holders using JPA Repository methods.

## **SECTION7: SPRING WEB MVC AND SPRING BOOT**

- MVC Architecture in Spring
- About Dispatcher Servlet
- Types of Handler Mappings
- Types of Controller
- Types of View Resolver
- Spring MVC Annotations
- Spring MVC with CRUD operations
- Spring with Web Services
- Spring Boot Application
- Difference between Spring and Spring BootSpring Boot Annotations



### **Real-time Practicals**

1. Perform CRUD operations using Spring MVC.
2. Get the Employee details from Html form and access in Spring using Web Services.  
Perform the same with Spring Boot Application.

## **SECTION 8: SPRING BOOT - OVERVIEW**

- What is Spring Boot?
- Developing a Project with Spring Boot Initializer
- Developing a REST API Controller with Spring Boot
- Examining the Spring Boot Project Structure - Part 1
- Examining the Spring Boot Project Structure - Part 2
- Spring Boot Starters - A Curated List of Dependencies
- Parents for Spring Boot Starters

## SECTION 9 : SPRING BOOT DEV TOOLS AND SPRING BOOT ACTUATOR

- Spring Boot Dev Tools – Overview
- Spring Boot Actuator – Overview
- Spring Boot Actuator - Accessing Actuator Endpoints
- Spring Boot Actuator - Applying Security to Actuator Endpoints

## SECTION 10: SPRING BOOT - RUNNING SPRING BOOT APPS FROM THE COMMAND LINE

- Running Spring Boot Apps from the Command Line - Overview
- Running Spring Boot Apps from the Command Line - Coding

## SECTION 11: SPRING BOOT - APPLICATION PROPERTIES

- Injecting Custom Application Properties
- Configuring the Spring Boot Server

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