



iHACKERU



Spring

BT114

42

Academic Hours

Spring

Outline

A new major release for the most popular Java framework. Spring 5.0 contains improvements and adaptations to the new Java versions. During this course, we will dive deep into Spring Core and Spring MVC



Target Audience

- Java developers
- Team leaders
- Project managers



Prerequisites

- Familiarity with the Java language
- Familiarity with Spring IoC and REST





Content

Module 01

Spring Framework Overview

- | Introduction to the Spring Framework
- | Benefits of Using the Spring Framework
- | Dependency Injection (DI)
- | Aspect Oriented Programming (AOP)
- | Spring Framework Architecture
- | Spring History and Design Philosophy (principles)
- | Setting up the development environment
- | Hello World Example

Module 03

The IoC Container (part 2)

- | Annotation-based container configuration
- | Classpath scanning & managed components
- | Using JSR 330 Standard Annotations
- | Java-based container configuration
- | Environment abstraction
- | Registering a LoadTimeWeaver
- | Additional capabilities of the The BeanFactory

Module 04

The SpEL

- | Introduction to the Spring EL
- | The Type Conversion System

Module 02

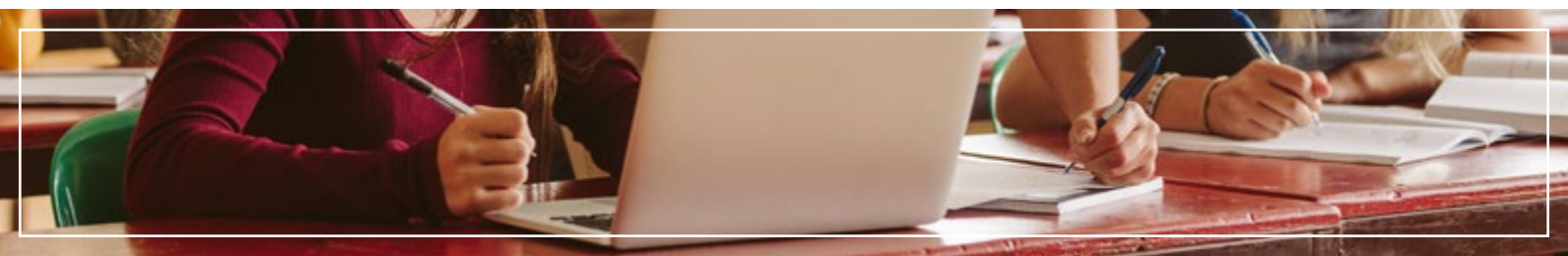
The IoC Container (part 1)

- | Introduction to the Spring IoC container and Beans
- | Container Overview
- | Bean overview
- | Dependencies
- | Bean scopes
- | Customizing the nature of a bean
- | Other Aware interfaces
- | Bean definition inheritance

Module 05

Spring AOP

- | Introduction
- | @AspectJ support
- | Schema-based AOP support
- | Choosing which AOP declaration style to use
- | Mixing aspect types
- | Proxying mechanisms
- | Programmatic creation of @AspectJ Proxies
- | Using AspectJ with Spring application



Module 06 Spring Data Access

- | Transaction Management
- | Spring Data

Module 07 Spring and Rest

- | Spring MVC

Module 08 Spring Boot

- | Challenges building non-Boot applications
- | Introduction to Spring Boot
- | The Starter Projects
- | Automatic Configuration
- | Customizations
- | Spring Boot Features Overview
- | Testing with Spring Boot



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