Course duration

- 5 days

Course Benefits

- Understand the core principles of Spring, and of Dependency Injection (DI) / Inversion of Control
- Use the Spring Core module and DI to configure and wire application objects (beans) together
- Know the different types of metadata (XML, annotations/@Component, and Java Configuration/@Configuration), and how and when to use them
- Understand and use the complete capabilities of the Core module, such as lifecycle events, bean scopes, and the Spring API
- Use Spring Boot to simplify dependency management and configuration
- Understand the benefits of JPA and the JPA Architecture
- Create JPA based applications
- Work with the ORM (Object-Relational Mapping) module to integrate Spring with JPA.
- Understand and use Spring's transaction support, including the easy-to-use Java annotation support, as well as the tx/aop XML configuration elements
- Understand and use JPA mapping to map persistent objects to the database
- Work with JPA queries and JPQL
- Understand and work with collections and associations (Value and entity types, unidirectional, bidirectional, 1-1, 1-N, N-N
- Use JPA's versioning support
- Map inheritance hierarchies using JPA
- Integrate Spring/JPA with Java EE Web applications
- Use Spring Data to automatically generate JPA-based repositories with auto-generated queries

Available Delivery Methods

Public Class
Public expert-led online training from the convenience of your home, office or anywhere with an internet connection. Guaranteed to run .

Private Class
Private classes are delivered for groups at your offices or a location of your choice.

Course Outline

4. Using CrudRepository
2. Using Spring Data
   1. Naming Conventions for Querying
   2. Creating more Complex Queries
   3. Query Configuration
13. Additional Topics
    1. Spring 5: Core Updates
    2. JPA: Embedded Objects
    3. JPA: Compound Primary Keys
    4. JPA: Element Collections

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

Class Prerequisites

Experience in the following *is required* for this Spring class:

- Good practical Java programming skills, including use of inheritance and interfaces.
- Some familiarity with SQL and databases.