SKILLIQ

Spring Boot

Installation & Introduction

1 Install Java Platform (JDK)

2 Downloading and install spring tool suite (sts)

3 Configure Apache Tomcat

4 Starting and Stopping Apache Tomcat

5 Creating a new Apache Tomcat User

6 Deploying Your Web Service to Apache Tomcat

7 Introduction To Spring Boot Framework

8 Introduction to Spring Boot

9 Spring Boot vs Spring vs Spring MVC

10 Spring Boot Actuator

11 Spring Boot Developer Tools

Week 1

Restful Web Services

1 Initializing a RESTful Web Services

2 Introduction to RESTful Web Services With Spring Boot

3 Spring Boot Auto Configuration and Dispatcher Servlet

4 Enhancing the Hello World Service with a Path Variable

Week 2

Spring Boot

Restful Web Services With Spring Boot

1 Implementing the POST Method to create User Resource

2 Implementing Static Filtering for RESTful Services

3 Implementing Dynamic Filtering for RESTful Services

4 Implementing DELETE Method to Delete a User Resource

Week 3

Spring Boot

Spring Boot Validation & Security

1 Implementing Validations for RESTful Services

2 Versioning RESTful Web Services- Basic Approach With URIs

3 Implementing Basic Authentication with Spring Security

4 Updating POST and DELETE methods on User

Week 4

Practical exam based on
four week learning

Exam

Spring Boot

Exception handling

1 Implementing Exception Handling- 404 Resource Not Found

2 Implementing Generic Exception Handling for all Resources

3 Implementing ErrorMessages enum

4 Implementing UserServiceException

5 Handle a Specific Exception

6 Return Custom Error Object Representation

7 Handle All Other Exceptions

Week 5

Spring Boot

Implementing HATEOAS for RESTful Services

1 Adding HATEOAS Support to Our Project

2 Adding Links to the AddressRest Model

3 Adding Links to a Get Addresses API Call

4 Applying HAL Format

5 Adding Links. Entity Model.

6 Building links with methodOn()

7 Returning a collection of resources with CollectionModel.

8 Adding links to embedded list of addresses

Week 6

Restful Web Service To JPA

1 Introduction to JPA

2 Overview of Connecting RESTful Service to JPA

3 Creating User Entity and some test data

4 Updating GET methods on User Resource to use JPA

5 Updating POST and DELETE methods on User Resource to use JPA

6 Creating Post Entity and Many to One Relationship with User Entity

7 Implementing a GET service to retrieve all Posts of a User

8 Implementing a POST service to create a Post for a User

Week 7

Spring Boot

Deployment, Unit, Postman & Security testing.

Week 8

Practical exam based on **four week** learning

Exam

Congratulations!

You have successfully completed this course!