



Java Web Development

Course Introduction

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Course Objectives

- Java is one of the most popular programming languages
- Java is free to use
- Java EE enables Java developers to build web applications
- There are a lot of frameworks for Java

Objectives



- Understanding the Web Development Concepts
- Knowing the Java EE Concepts
- Being able to use Spring Framework
- Designing a Database
- **Creating Web Applications using Java**



Trainers Team

■ Deyan Zhekov

- Senior Software Engineer at Musala Soft
- More than 7 years of Software Development experience mostly with Java and PL/SQL
- Oracle Certified Professional (OCP) Java 7 SE Programmer
- MBA in Informatics from Sofia University
- Computer Engineer from Technical University – Varna



Course Program

Course Program



- Module 1: Java Web Development Basics
- Module 2: Spring Framework
- Module 3: Oracle Database and Database Connectivity
- Module 4: Final Topics

Module 1: Java Web Development Basics



- Topic 1 – Web Development Basics
- Topic 2 – Servlets and Pages
- Topic 3 – Containers, Filters and Sessions
- Topic 4 – Java Beans

Module 2: Spring Framework



- Topic 5 – Spring Core
- Topic 6 – Spring MVC
- Topic 7 – Spring Security

Module 3: Oracle Database and Database Connectivity



- Topic 8 – Oracle Database
- Topic 9 – Java Persistence

Module 4: Final Topics



- Topic 10: Final Test
- Topic 11: Workshop – Building Web Application from Scratch
- Topic 12: Project Presentations

Examination

Scoring System



- Course project – 60%
- Test – 30%
- Homework and Homework Evaluation – 10%
- Forum activity bonus – 10%

Course Project



- Web application with database
 - Mandatory technologies:
 - Java
 - Spring (MVC, Security)
 - JPA (Hibernate)
 - Oracle XE
 - Additional optional technologies (**not part of the course**):
 - JavaScript (jQuery, Bootstrap)
 - CSS
 - Others

Project Evaluation



- Detailed project evaluation criteria will be presented
- Projects live defense (at the end of the course) is part of the evaluation process

Resources

Development Tools



- Mandatory:
 - Java 8 JDK
 - Apache Tomcat
 - Apache Maven
 - Oracle XE
- Recommended:
 - Eclipse Mars
 - Oracle SQL Developer

Resources



- Internet !!!
- Presentations – available at the SoftUni site
- Videos – available at the SoftUni site
- Source Code Examples – available at the SoftUni site