Spring Fundamentals

Course Introduction
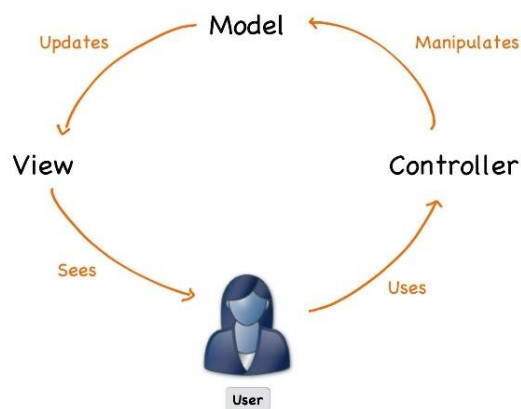
SoftUni Team

Technical Trainers

Software University

Model

Updates

Manipulates

View

Controller

Sees

Uses

User

CSS
3

HTML
5

SoftUni

Software University

https://softuni.bg

sli.do

#java-web

Table of Contents

SoftUni Diamond Partners

Course Objectives & Program

Spring Fundamentals

Spring Fundamentals – Course Program

- **Resources**
    - **Mini Course HTML & CSS:** Two lectures and one workshop
    - **Front End Basics:** Basic work with bootstrap and JavaScript
- **Course Introduction:** Course Program, Trainers, Exams, Resources
- **HTTP Protocol:** HTTP Protocol Intro, Requests, Responses
- **Spring Core:** IoC Container, Beans, Dependency Injection, Spring Boot
- **Spring MVC:** MVC Introduction, Spring MVC Controllers, Layers - dividing code, Spring MVC vs Reactive
- **Exercise:** Spring Boot + Spring MVC
- **Workshop**

Spring Fundamentals – Course Program

- **Spring MVC with Thymeleaf:** Thymeleaf, Binding requests and response model, Validation and Thymeleaf

- **State Management:** HTTP Cookies, HTTP Sessions, Working with HTTP Sessions, Cookies and Headers

- **Workshop**

- **Events, Scheduling Tasks and Caching:** Spring Events, Scheduling Tasks, Caching

- **Exam Preparation (x2)**

- **Workshop**

- **Exam**

The Trainers Team

Lachezar Balev

- **Software engineer with 20+ years of real experience** with different projects

- **Started developing with Java in the year 2000** in the form of J2SE 1.2

- **Works at REWE Digital Bulgaria** on an architecture focused on **microservices**

- Uses **Java**, **TypeScript**, and **Kotlin** in his daily tasks

- Rides a **motorcycle** and **climbs mountains** in his spare time

- Personal website: **http://balev.eu/**

Nikolay Bankin

- Top performing student from the Software University (2014)

- **10 years** of programming experience

- Teacher at **TUES**

- Expirienced with **Java**, **Scala**, **JavaScript** and other platforms and technologies.

Course Organization

Java Web Module – Timeline

14-May-2024

25-Jun-2024

15/18-Aug-2024

Spring Fundamentals

Lessons + exam

- 6 weeks * 2 times / week
- 12 credits
- Start: 14-May-2024
- Theoretical Exam: 23-Jun-2024
- Exam: 23-Jun-2024

Spring Advanced

Lessons + exam

- 6 weeks * 2 times/week
- 18 credits
- Start: 25-June-2024
- Theoretical Exam: 10/11-Aug-2024
- Project Defense: 10/11-Aug-2024

Retake Exams

- Fundamentals: 15-Aug-2024
- Advanced: 18-Aug-2024

SoftUni Certificate

Practical Exam 100%

Evaluation

CPE Certificate

Practical Exam

Evaluation

Theoretical Exam

Practical Exam

- Practical web development exam

  - Implementing a simple web application using Spring Framework

  - Given a portion of the Views in a raw form

  - Duration: 6 hours

- Solutions are evaluated by hand after the exam

Theoretical Exam

- Test for 30 minutes
    - Multiple-choice with one correct answers
    - English
- Automated quiz system
- Available online the day of the practical exam
    - You can submit your answer just one time

Learn to Search in Internet

- The course assignments require to **search in Internet**
  - This is an important part of the learning process
  - Some exercises intentionally have no hints
- Learn to find solutions!
  - Software development includes **everyday searching and learning**
  - No excuses, just **learn to study**!
  - Developers learn new technologies, tools, languages every day!

Resources

What We Need Additionally?

Spring Fundamentals: Web Site, Forum, FB Group

- Official web site:

  https://softuni.bg/trainings/4235/spring-fundamentals-may-2024

- Official discussion forum:

  https://softuni.bg/forum/categories/72/java-web

- Community Facebook group:

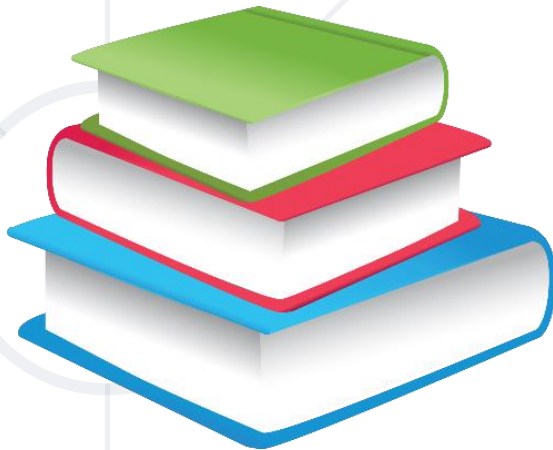 https://www.facebook.com/groups/SoftUniJavaCommunity/

Spring Fundamentals Slides and Videos
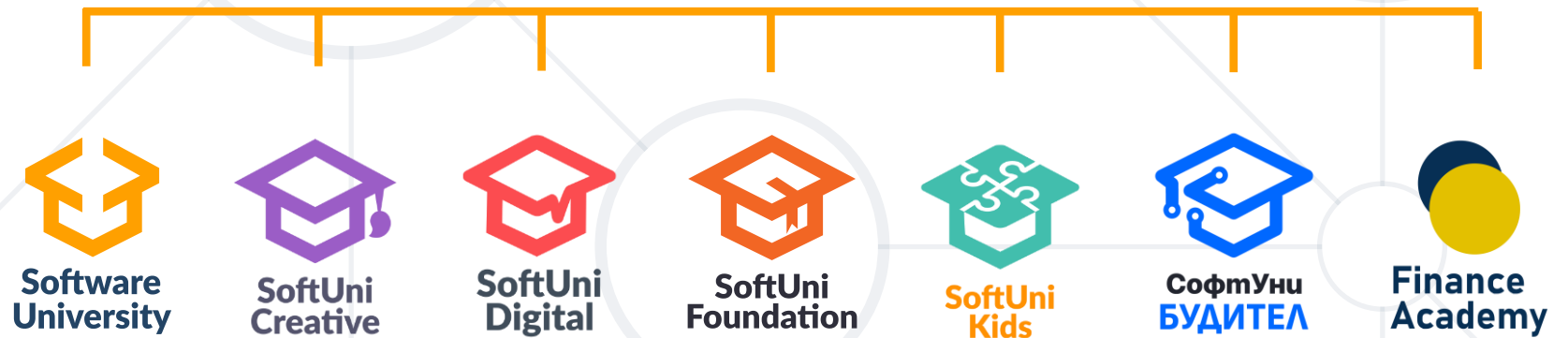
- All lecture slides, videos, homework assignments, projects and other resources are open content, available for free

  - Visit the course web site to access the course resources

Questions?

Trainings @ Software University (SoftUni)

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