

COURSE CERTIFICATE

№ 02WEBDEVEL-0123-5

Date of issue 05/06/2023

This is to certify that

Ковин Арсений Алексеевич

Successfully completed the course

WEB DEVELOPMENT WITH JAVA SPRING FRAMEWORK

2 credits

The description of the course and the achieved learning results are given in the appendix to this certificate.

E-CERTIFICATE

<https://open.spbstu.ru/certificate/02WEBDEVEL-0123-5.pdf>



Vice-rector for academic affairs
Elena M. Razinkina

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<http://www.spbstu.ru/>

THE NAME OF THE COURSE WEB DEVELOPMENT WITH JAVA SPRING FRAMEWORK
<https://openedu.ru/course/spbstu/WEBDEVEL/>

LEAD-TIME

From March 13, 2023 to May 14, 2023

Assessment, number of hours and credits per course

| Credits | Hours | | Assessment | | |
|---------|---------|----------|------------|---------|--------|
| | General | Academic | 100-point | 5-point | Letter |
| 2 | 54 | 72 | 100 | 5 | A |

GRADING POLICY

| Evaluation scale ranges (100-point scale) | Score (5-point scale) | Letter |
|--|-----------------------|--------|
| 90-100 | 5 | A |
| 75-89 | 4 | B |
| 60-74 | 3 | C |
| 0-59 | 2 | F |

COURSE PROGRAM

Module 1. Spring Framework Introduction

- Lesson 1.1. Greeting
- Lesson 1.2. Introduction. Why learn the Spring Framework?
- Lesson 1.3. Setting up the development environment

Module 2. Spring Core

- Lesson 2.1. Spring Inversion of Control
- Lesson 2.2. Dependency
- Lesson 2.3. Resources
- Lesson 2.4. Spring Inversion of Control application development

Module 3. Spring MVC

- Lesson 3.1. MVC Overview
- Lesson 3.2. Spring MVC
- Lesson 3.3. Simple Web Application development

Module 4. Spring DATA

- Lesson 4.1. Java Persistence API
- Lesson 4.2. Work with DBMS
- Lesson 4.3. CRUD

Module 5. Spring REST

- Lesson 5.1. Spring REST
- Lesson 5.2. Spring REST exception handling
- Lesson 5.3. CRUD with REST controllers

Module 6. Final Project

WHAT YOU'LL LEARN:

- Understand the Dependency Injection, Inversion of control and how to access data using Hibernate.
- Be able to develop a web application with Spring MVC and to develop a RESTful Web Services.

SCORING FORMULA:

| Nº | Assessment Type | Points scored | Maximum score | Quotient |
|----|----------------------|---------------|---------------|----------|
| 1 | Graded Test | 100 | 100 | 0,25 |
| 2 | Assessment Test | 100 | 100 | 0,35 |
| 3 | Final Practical Work | 100 | 100 | 0,25 |
| 4 | Final Exam | 100 | 100 | 0,15 |
| 5 | Final Score | 100 | 100 | 1 |

Appendix to the certificate №
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