

Back-End Test Automation

Course Introduction



SoftUni Team
Technical Trainers



SoftUni



Software University

<https://softuni.bg/>

You Have Questions?

sli.do

#QA-BackEnd

SoftUni Diamond Partners



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Course Objectives and Scope

Course Goals



- Acquire **essential skills** in automated Back-End testing, focusing on **web services** and **APIs** with tools such as Postman and RestSharp
- Learn to **write** and **maintain automated test scripts**, integrating unit and **API** testing techniques
- Explore **basic DevOps** practices for CI/CD pipelines, using GitHub Actions
- Develop **performance testing** skills with tools like JMeter and K6

Course Scope

- Exploring and practicing:
 - Performance and Stress Testing Overview - Part 1
 - Performance and Stress Testing Overview - Part 2
 - API Testing with C#
 - Security Testing
 - Workshop: Project Initiation and Overview
 - Workshop: Framework for Testing APIs
 - Workshop: Security and Complex Strategies





Training Team

- **QA Automation Developer** with over 6 years of experience
- Programming background since high school
- Education in **Computer and Software Engineering** from TU
- Professional experience with companies like Seeburger and Automate the Planet
- Current Role: **Senior QA Automation Developer at Nuvolo**





Course Organization

Course Timeline

5-Nov-2024

15-Dec-2024

19-Dec-2024

Back-End Technologies Automation
7 weeks * 2 times / week
15 credits

Start: 5-Nov-2024
Theoretical Exam: 15-Dec-2024
Practical Exam: 15-Dec-2024
Theoretical Exam Retake: 19-Dec-2024
Practical Exam Retake: 19-Dec-2024



Exam

Exams

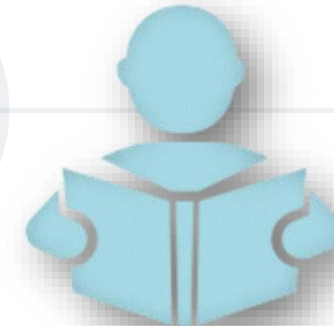
- Both exams will be conducted in English
- **Practical Exam**
 - Practical Tasks for 6 hours
- **Theoretical Exam**
 - 10 questions for 30 minutes
 - Multiple-choice with **1 correct** answer
 - Automated **quiz system**







- 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!
 - Quality assurance includes **everyday searching and learning**
 - No excuses, just **learn to study!**
 - QAs learn new technologies, tools, languages every day!



- Official web site:

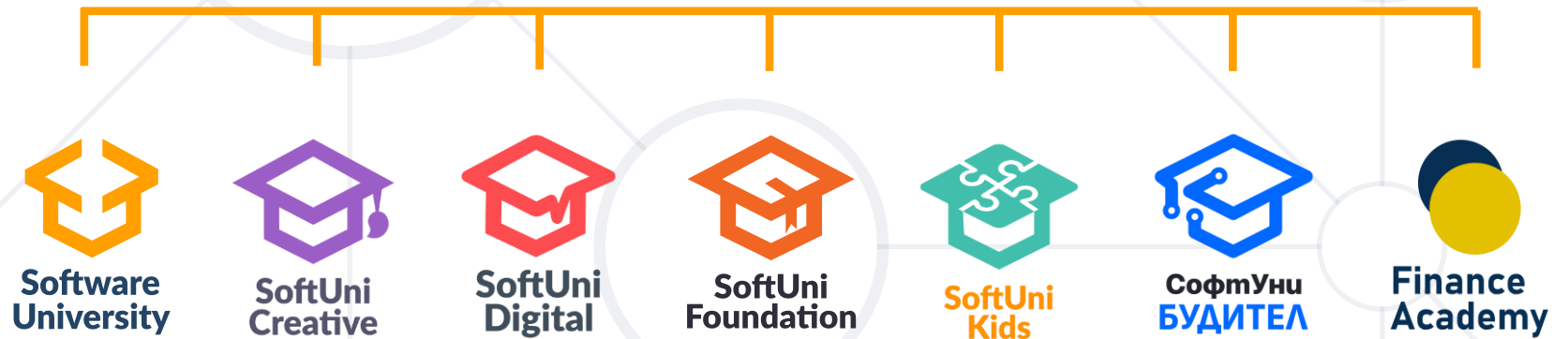
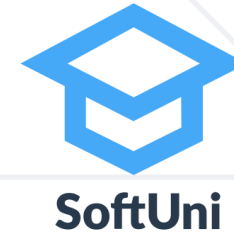
<https://softuni.bg/trainings/4729/back-end-test-automation-november-2024>

- Official Facebook group:

<https://www.facebook.com/groups/backendtestautomationseptember2024>



Questions?



- Software University – High-Quality Education, Profession and Job for Software Developers

- softuni.bg, about.softuni.bg

- Software University Foundation

- softuni.foundation

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