

Back-End Technologies Basics

Course Introduction



SoftUni Team
Technical Trainers



SoftUni

Software University

<https://softuni.bg/>

You Have Questions?

sli.do

#QA-BackEnd

SoftUni Diamond Partners



THE CROWN IS YOURS



Table of Contents

1. Course Objectives

- Course Scope

2. Exam

3. Training Team

4. Course Organization

- Course Infrastructure
- Evaluation Criteria





Course Objectives and Scope

Course Goals



- Develop fundamental understanding of **back-end technologies** and **JavaScript**, enabling effective testing and problem-solving in QA
- Practice **unit testing** techniques, and apply these skills in practical projects and exercises
- Gain **knowledge** in **advanced QA** practices, including API testing, and the use of container technologies

Course Scope

- Exploring and practicing with:
 - Data Formats: JSON, YAML and XML
 - Containers, Docker and Docker Compose
 - Web Services Introduction: HTTP, REST & Authentication & Authorization
 - Postman Basics
 - JavaScript
 - Unit Testing with JavaScript
 - API Testing with Postman
 - Postman & Newman





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

10-Sept-2024

3-Nov-2024

17-Dec-2024

Back-End Technologies Basics
7 weeks * 2 times / week
12 credits

Start: 10-Sept-2024
Theoretical Exam: 3-Nov-2024
Practical Exam: 3-Nov-2024
Theoretical Exam Retake: 17-Dec-2024
Practical Exam Retake: 17-Dec-2024




Exam

Exams

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





**Practical
Exam
100%**

Evaluation



- 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!



Course Web Site and FB Group

- Official web site:

<https://softuni.bg/trainings/4726/back-end-technologies-basics-september-2024>

- Official Facebook group:

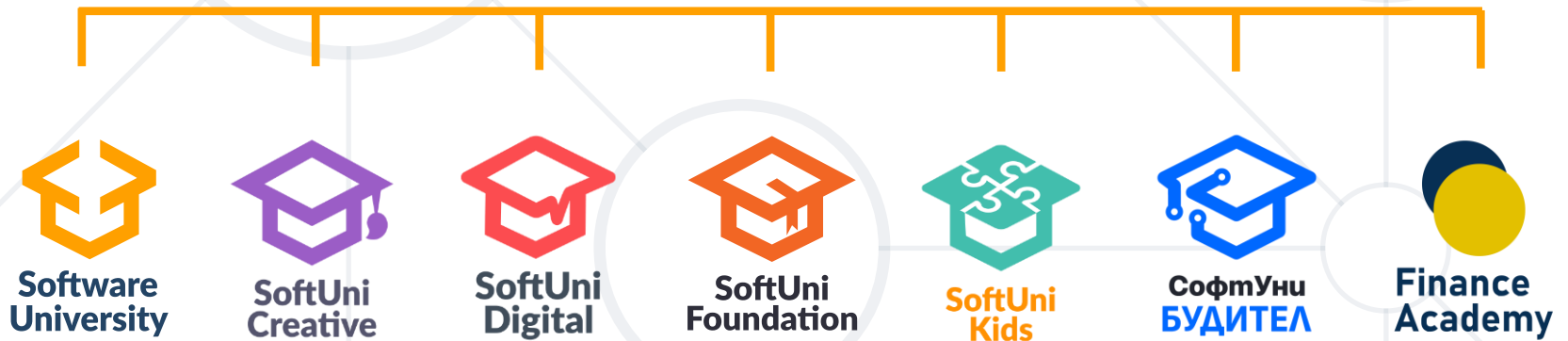
<https://www.facebook.com/groups/backendtestautomationseptember2024>



Questions?



SoftUni



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

- softuni.bg, about.softuni.bg

- Software University Foundation

- softuni.foundation

- Software University @ Facebook

- facebook.com/SoftwareUniversity



- This course (slides, examples, demos, exercises, homework, documents, videos and other assets) is **copyrighted content**
- Unauthorized copy, reproduction or use is illegal
- © SoftUni – <https://about.softuni.bg/>
- © Software University – <https://softuni.bg>

