

REST API automation in Java.

Program Content

Lesson 1 - Setting up the Environment, Running the First Program

- Why should we test APIs?
- Choosing the technology stack
- Installing Java and IntelliJ IDEA
- Introduction to HTTP and APIs
- Structure of an HTTP request
- Creating a project
- Installing Maven

Lesson 2 - Making Simple API Requests

- Exploring the test API
- Writing the first GET request
- Understanding JSON format
- Sending data and get parameters in a request
- Automatic JSON parsing
- Working with POST requests
- Interpreting server response codes
- Reading and sending request headers
- Reading and sending request cookies

Lesson 3 - Integrating JUnit5 into the Project

- Getting familiar with the JUnit5 library
- Parameterized tests
- Creating API tests for authentication
- Tags @BeforeEach and @AfterEach in JUnit5
- Beginning work on the framework

Lesson 4 - Creating a Framework and Running it in Docker

- Creating a framework
- Creating API tests for registration
- Working with PUT requests
- Creating custom request parameters
- Automatic request and response logging, working with logs
- Adding Allure reports to the project
- Running the project in Docker