

Selenium WebDriver Java

5 Sessions Online

This comprehensive course covers all the essential principles of using the Selenium WebDriver.

Designed for beginners as well as testers with previous automation experience, it takes the newcomer to Selenium through all the basic techniques of writing effective automated web tests.

The course is online, live, instructor-led over 5 days, with each day being an online session of approx.. 3.5 hours.

Course Objectives

- understand the key principles of test automation using Selenium WebDriver
- understand how to structure your automated testing including the Page Object Model
- Understand how to manage Object Recognition using techniques such as XPath and CSS

Technologies Used

- IntelliJ, Maven, Selenium WebDriver Java, JUnit, Java

Course Pre-requisites

- A basic understanding of HTML and how Web Pages are developed
- Some programming experience would be advantageous.

Key Points

Installation & Project Setup

How to install Selenium WebDriver Java, JUnit, JDK, Eclipse & Maven, and other useful tools. Creating a Maven project.

Introducing WebDriver

How to write a simple automation script in WebDriver within a standard java Class

Recording

Creating a WebDriver & JUnit script via recording (Selenium IDE)

Object Identification

Element locator strategies, using simple techniques

Object Identification using CSS & XPath

More complex locator strategies using CSS & XPath notation.

Synchronisation & Debugging

Implicit and Explicit Waits explained, debugging your test scripts.

Capturing Values & Asserts

Capturing values, handling web tables, test step asserts

WebDriver with JUnit

Overview of the JUnit key words. Using the correct WebDriver methods. Using the correct validation techniques. Using JUnit Test Suites

Helpers & Base Classes

Code re-use through Helper Methods and Base Classes.

Introducing Page Objects (POM)

Introduction to why we do it and how it makes life easier. Refactoring our tests using the PageFactory. Developing your own POM

Command Line & Reporting

Command Line execution with Maven, Passing Parameters, Taking Screenshots, Using Surefire Reporting, 3rd Party Reporting tools.

Data-Driven testing

In-line and external data sources, data-driving your tests.

Cross-Browser & Selenium Server

Executing tests remotely using Selenium Server/Grid, Cross-Browser Testing

Integration

Integration with source control (Git & GitHub), integration with Jenkins and automating Test execution

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Sessions

The introductory course that takes you from beginner through to writing effective automated tests in Selenium WebDriver

Recommended for anyone new to Selenium