Selenium WebDriver 3 Java

Online

4
Days

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

Recommended for anyone new to Selenium

Course Length
4 Sessions of approximately 3 hours each spread over 4 days

Course Description
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 new-comer to Selenium through all the basic techniques of writing effective automated web tests.

Throughout the course practical examples are demonstrated.

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
- by the end of the course you should have a thorough understanding of how to develop reliable, robust Selenium Web Tests using Selenium WebDriver and other tools

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

Key Points
Installation & Setup
How to install Selenium WebDriver Java, JUnit, Eclipse, and other useful tools. How to organise your file structure.

Introduction to Java (Optional)
Basic introduction to the Java programming language and OOP.

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

Object Identification
Element locator strategies, using simple techniques

Object Identification using CSS & XPath
More complex locator strategies using CSS & XPath notation.

Synchronization & Debugging
Implicit and Explicit Waits explained, debugging your test scripts.

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 to use a page object model. Developing a library of pages

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

Reporting
Screenshots, Using ANT Reports, Using 3rd party reporting tools.

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

Integration
Command-line execution, Integration with source control (GIT), integration with Jenkins and automating Test execution