TLG700 : Web testing with Selenium

Code :

Audience :

This course is intended for developers and testers who want to set up a test automation framework with Selenium.

TLG700

Prerequisites :

To participate successfully in this course knowledge and programming experience is highly desirable

Duration:

Realization :

The theory is discussed on the basis of presentation slides. Demos are used to illustrate the theory. There is ample opportunity to practice. The course material is in English.







Web Testing with Selenium



Contents :

In the course Web Testing with Selenium participants learn to work with this test automation framework. Selenium is increasingly used as a test automation tool. Addressed are the principles of test automation, the Selenium IDE, Element Identification and testing of dynamic HTML applications. All aspects of Element Identification (id, name, CSS, xPath link) are covered extensively. As an example the Java programming language is used in this course, but another language like Python can be chosen as well. Participants begin to create an abstraction of the Test Object. Here the most common Selenium web driver functions will be explained and applied. In addition test scripts that can be written in the JUnit Test Framework are addressed. Automating not only consists of the execution of a test case, but also of the set up of the baseline and neatly leaving everything behind afterwards. The so-called fixture. Furthermore selecting elements with various functions and Navigating and Manipulating elements is discussed. Finally attention is paid to a number of advanced topics such as the combination of Selenium and JavaScript.

2 days

Module 1 : Selenium Intro

What is Selenium? Create Projects Maven **Basic Automation** Navigation Interrogation Manipulation Synchronisation

Module 4 : Manipulation

WebElement methods WebDriverWait ExpectedConditions SendKeys method explored Select support class **User Interactions Dealing with Alerts** Alert methods explored

Module 2 : JUnit

jUnit Basics Test Cases JUnit asserts Fixtures @Before @After @BeforeClass @AfterClass Hamcrest matchers

Module 5 : Frames and Windows

WebDriver methods explained Frames Examples Windows Explained Manipulating the browser window Synchronisation Strategies Why we need synchronisation WebDriverWait Fluent interface FluentWait, Function & Predicate Implicit vs Explicit Wait Cookies Reading cookies Managing cookies

Module 3 : Navigation

Basic Navigation getTitle getCurrentUrl findElement findElements Interrogation CSS Selectors Basics of CSS Selectors **Browser Plugins** XPath Location Basics of XPath

Module 6 : Selenium and JavaScript

Why use Javascript? JavaScript Execution Synchronous and Asynchronous Adding Javascript to page Use of Different Browsers Firefox Google Chrome Remote Driver Selenium Grid 2