

Selenium Contents

Selenium IDE:

1. Need of Test Automation
 - Why Open Source Test Automation
 - Introduction to Various tools of Test Automation
2. Introduction to Selenium
 - Install Selenium IDE and Firebug
 - Introduction to Selenium IDE
 - Brief & Introduction on Selenium Components
 - Introduction of Web Technologies – HTML, XML, XPath, CSS and DOM
3. First Record and Play of Scenario in Selenium IDE
 - Run Modes
 - Introduction of Selenese Command Types
 - Creating your First Selenium IDE script
 - Selenium Action Commands
 - Verification and Assertion Commands
 - Store and StoreEval – Accessor Commands
 - Create test suite, add test cases, play test suite
 - Debugging IDE Script
4. Debug Test Cases
5. Parameterization
6. Regular Expression
7. Iteration Technique
8. Data Passing (Integration Approach)
9. Selenium IDE test runner
10. How to use Locators in Selenium IDE
11. How to enhance a script using Selenium IDE
12. Dragging and Dropping elements.

WebDriver Syllabus:

Module 1: WebDriver

1. Selenium WebDriver Introduction
2. WebDriver Vs Remote Control Vs Grid
3. Download and Configure WebDriver with Eclipse
4. First Test Case
 - Open and Close Browser
 - Get Title of Browser
 - Different Browser Testing – Firefox, IE, Chrome, HtmlUnitDriver
5. UI elements Locator Methods
6. Identifying WebElement using id, name, className, link text, class, xpath, css
7. Handling various WebElement using WebDriver
8. Handling Mouse movements and keyboard Events
9. Broken HyperLink and Image Link Testing.
10. Handling various Form elements
11. HeadLess Testing using HTML Unit.
12. Implicit wait & Explicit waits.
13. Explicit waits using custom expected conditions
14. Exception Handling
15. Exporting pre-recorded test scenario in IDE to WebDriver, and executing it.

Module 2: Testing Framework and Tools

1. Introduction of Testing Framework
2. Types of frameworks
3. TestNG introduction and Configuration with eclipse
4. TestNG Annotations
5. Creating Test Suite with TestNG
6. Verifications and Assertions
7. Parameterization
8. Detailed usage on various Annotations.

Module 3: Develop Framework

1. Developing Framework for Web Application using WebDriver/TestNG
2. Use external Data for Testing (Excel sheet file)
3. Reading and understanding reports
4. Introduction to browser specific drivers.