Introduction to Selenium

 *Overview

Different Components of Selenium

Understanding of Selenium IDE

Installation of IDE

Understanding of Firebug tool/add-in

Understanding of Fire Path tool/add-in

Working with IDE

Building Test Cases

Executing Test Cases

Understanding different selenese commands

Understanding Object Identification [Locators]

Understanding HTML Attributes

Different locating strategies

By Id

By Name

By Xpath

By CSS

By DOM

By Link Test [Hyper links]

Matching Text Patterns

JavaScript and Selenese Parameters

Handling Alerts, Confirmation, Prompts, Popups, and Multiple Windows

Conditional statement and Looping statement

Creating user defined functions

Automation of end to end scenarios using selenium IDE

Developing and Executing Test Suites

Advantages & Limitations of IDE

Core Java

Basics of Java

Data Types, Modifiers, Expressions and Operations

Arrays and Flow Control Statements

Object Oriented Programming

Access specifiers

Access modifiers

Constructors

Methods vs constructors

Encapsulation

Inheritance

Polymorphism

Method over loading

Method over riding

Purpose of this and super

Abstraction

Interfaces

Packages

String and String Buffer

File Handling [Text/Excel/Property/INI]

Exception Handling

Collection Framework & Generics

Collection

Regular Expression

JDBC

Basic Java Programming from Selenium perspective

Framework Tools

TestNg Framework

Basic of TestNg

TestNg Installation

TestNg annotation

Test Case creation

Test Case execution

Parameterizing Tests - DataProvider

Assertions/Reporting Errors

Suite execution

TestNg Reports

Using TestNg in Selenium

Suite Execution

Ant Reports

WebDriver Modules

Introduction to WebDriver

Architecture of WebDriver

Installation and Configuration of WebDriver

Handling different UI components:

Page

Text field

Link

Button

Drop-down box

List

CheckBox

Radio Button

Calender Control

Table

File Attachment

Menu

CSS Menu (Action Class / JavaScriptExecutor)

Hidden Menu

Ajax Auto-suggest Text field

Scroll

Hidden Objects

Progress Bar

Dynamic objects

and Many More

Handling :

Alert

Confirmation

Prompt

Popup

New Tab

Window

Pop-up window

Frames

Opening multiple browsers at one time

Close and Quit methods in Webdriver

Download/Upload Dialog Box

SSL Certificates

Synchronization (Different timeouts)

JavaScript use

Capturing screenshots

Simulating the Keyboard event

Mouse movement

Drag drop of object

Cookies

Handling different Browser

IE

Chrome

Firefox

Browser Navigation

Firefox Profile

Listeners- Using Web Driver Event Listener

Using Regular Expression

Flash/Applet Automation

Grid

Introduction

Configuration

Setting up Hub and Node

Desired Capabilities Object

Remote Web Driver Object

Course Fee: 6k

Duration: 2Months Weekend