

SELENIUM COURSE CONTENT

- ❖ **INTRODUCTION**
- ❖ **BASICS OF JAVA / Python:**
- ❖ **HISTORY OF SELENIUM**
- ❖ **ADVANTAGES OF SELENIUM**
- ❖ **LIMITATION OF SELENIUM**
- ❖ **SELENIUM SUPPORTED ENVIRONMENTS**
- ❖ **SELENIUM SUPPORTED BROWSERS**
- ❖ **SELENIUM SUPPORTED SCRIPTING LANGUAGES**
- ❖ **DIFFERENT FLAVOURS OF SELENIUM:**
 - IDE
 - RC
 - Grid
 - Web Driver
 - Selenium Webdriver (Selenium 2.0)
- ❖ **IDE:**
 - Selenium IDE Installation
 - Selenium IDE Usage (Record and Playback)
 - Selenium IDE debugging
 - Exporting results in multi language(perl,java,python,ruby,groovy,c#)
 - Selenium RC Installation
- ❖ **REMOTE CONTROL:**
 - RC configuration with Eclipse
 - Running Selenium Server
 - Using Java Client Driver
 - Remote Control Architecture
 - Object Repository – GUI Locators(By ID, By Name, By Class)
 - Hello world example with RC
 - Introduction IDE Dev Tool bar for Internet Explorer
 - Introduction to Firebug for Fire Fox
 - X-Path Locators
 - X-Path finder tools
 - RC API Commands
 - Handling Text boxes(get and set Value)
 - Handling Buttons,HyperLinks
 - Handling DropDownBoxes
 - Handling Dynamic Dropdown Boxes
 - Handling CheckBoxes,Radio Buttons
 - Reading values from Static HTML Tables
 - Reading Values from Dynamic HTML Tables

- Check for ElementVisibility
- Check for isElementPresent
- Handling Multiple Browser Windows
- Handling Java Script Pop ups
- Running Tests on Internet Explorer
- Running Tests on Firefox
- Running Tests on Chrome
- Running RC Tests in Single Window browser
- Controlling Execution Speed of Selenium RC
- Running RC Tests on Custom Ports
- Verifying Results
- Debugging selenium Tests
- Reading data from static Tables, Listbox, Dropdown,
- Reading data from Dynamic Tables
- Data Driven Testing from properties files
- RC with Ajax Applications

❖ **ADVANCE COURSE:**

AUTOMATION FRAMEWORK DEVELOPMENT & USAGE:

- Creation of Framework
- Usage of the Framework
- Sample Project Implementation using the Framework
- Framework Advantages (Maintainability, Reusability)

❖ **DATA DRIVEN TESTING:**

- Jexcel API Overview
- Data Driven Testing from excel sheets

❖ **SELENIUM 2.0 (WEBDRIVER API):**

- Introduction to Selenium webdriver
- HTMLUnitDriver
- InternetExplorerDriver
- FireFoxDriver
- Creating Tests using Webdriver
- WebDriver API Commands
- Running Tests using Webdriver
- Selenium Backed Webdriver(switching between Selenium & WebDriver)

❖ **SELENIUM GRID:**

- Selenium Grid Overview
- Selenium Grid Architecture