Syllabus of Selenium Course in Chennai

With this **Selenium Training**, learners can perform distributed testing with Grid, handle the web elements with locating techniques, write efficient test cases with TestNG framework, and understand the importance of using automation testing in a quality-driven environment. Join the **Best Selenium Course** to proceed in the career path of testing with updated knowledge.

After completing **Selenium Training** the learners look forward to work with multiple types of client and the experience from automation testing will guide the learner to understand user experience, handle machine learning tasks, involve in implementing RPA path, involve in an agile process and handle DevOps related jobs. The experience of automation testing is associated with several other latest technologies like RPA, Machine learning, artificial intelligence, IoT, DevOps and user experience development. Learning will always put the learner in the right path towards success.

Web Driver 3.0 Training

Course Objective

- Understand Oops /java concepts
- Selenium IDE, RC
- Selenium WebDriver tool in depth, it's features & components
- Building a new Test Framework by using Web Driver, Test NG, and Maven

Selenium Introduction

- Selenium Introduction
- What is Selenium and Why Selenium
- Use of Automation Testing?
- Explanation of Selenium and its advantages
- Differences between Selenium and QTP
- Selenium Components
- Introduction of selenium Components

OOPs concepts and Core Java Introduction

- OOPs concepts
- Setup Java environment – Download JDK and Setup eclipse
- Java programming concepts
- Class, Object, variables, methods, Packages
- Conditions and loops
- Access and non-access modifiers
- Advanced Java Programming
- Interfaces, Inheritance
- Collections, Exceptions

Selenium IDE and RC Introduction

- Installing Selenium IDE
- "Selenese" – Selenium Commands
- Actions, Asserts, Assessors.
- Developing Test Cases & Test Suites with Selenium-IDE
- Introduction to Selenium RC

Installations

- eclipse-Oxygen
- JDK 1.8
- Firefox 47.0.1, firebug and file path
- Set up TestNG, Maven and Selenium (2.53.1 &3.0 +) for eclipse

Selenium WebDriver 2.0 and 3.0 Introduction

- Selenium WebDriver Introduction
- WebDriver Vs RC
- Download and Configure WebDriver with Eclipse
- Simple Testcase
- Open and Close Browser
- Cross Browser Testing – Firefox, IE, Chrome, Edge.
- UI elements Locators.
- Identifying WebElement using id, name, link text,Partial LinkText class Name, XPath, CssSelector and TagName.
- Handling various WebElement using WebDriver
- Handling Mouse movements and Keyboard Events
- Gecko-Driver
- Verification Commands

a.How to get Title

b.How to get Current Url

c.How to get PageScource

d.How to get WindowHandel

e.How to get WindowHandels

f.How to get Text

g.How to get Attributes2.Validation commands:

a.IsSelected

b.IsEnabled

c.IsDisplayed3.How to operate with WebTable4.How to Handel Alerts in webpage5.Switch Commands:

a.how to switch windows or Tabs.

b.how to switch Alerts.6.How to operate with calanders7.Synchronization Commands

a.Thread.sleep();

b.ImplicitWait

c.ExplisitWait

- ✔ File uploading using Auto-It and Robot.

Testing Framework and Tools

- ✔ Introduction of the Testing framework
- ✔ Types of frameworks
- ✔ Tools for developing Test Framework
- ✔ TestNG introduction and Configuration with eclipse
- ✔ TestNG Annotations and Data Providers
- ✔ Creating Test Suit with TestNG

Framework

- ✔ Moduler Frame work
- ✔ POM
- ✔ Data driven
- ✔ paramitarization
- ✔ Hybrid Framework

Develop Hybrid Framework

- ✔ Developing Hybrid Framework for Web Application using WebDriver /TestNG and Maven
- ✔ Use external Data for Testing (Excel sheet, XML files, Property file)
- ✔ Reading and understanding reports
- ✔ Screenshots of failed Test case

Configuration Management

- ✔ Jenkins Installation
- ✔ Maven Installation
- ✔ Dependencies and configure Maven Project
- ✔ Integrate Maven projects in Jenkins.

Selenium Training with Python Course Syllabus

Introduction

- ✔ Why do we need Selenium? (Though, there are many automation tools are available)

- Selenium with Java vs. Python (pros and cons)

- Program structure

Python Programming

- Basic Programming in Python

- Function & Parameters in Python

- Python Data structures and operation

- File Operations

- Modules

- Object Oriented Programming

Execution steps

- Environment setup(python, Pycharm, Selenium and etc.,)

- Introduction with Python and Pycharm

- First Script on Selenium

Selenium- Web Driver

- Introduction to Web driver and Remote vs. Local

- Guide to install Web driver

- Creating your first script on Web driver

- Accessing Forms in Web driver

- Accessing Links and Table content in Web driver

- Remote web driver

Automation Framework

- Advanced Web element access method- Contains, Sibling, Ancestor and etc.,

- Framework designing methods

- Framework adaptation

- Feature Testing Automation

- Report Generation out of Automation

- Real time Automation and the Challenges

PyAutoGUI – Controlling Mouse and Keyboard

- Introduction to pyautogui

- Accessing Flash content using pyautogui

- Controlling Keyboard and Mouse events on web driver

Controlling Keyboard and Mouse events on web driver

Selenium Training with C# Course Syllabus

- ✔ Overview

Collapse Selenium IDE

- ✔ Introduction
- ✔ Record & Playback
- ✔ Command types
- ✔ Using Verifications
- ✔ Using Asserts
- ✔ Exporting Test Case/Suite to C#/NUnit

Collapse Selenium Webdriver

- ✔ Introduction
- ✔ Setting up new project
- ✔ Project Structure
- ✔ Understanding DOM Structure
- ✔ Finding Elements
- ✔ Assert Types
- ✔ Working with Dynamic Elements (Radio/Checkbox/DropDown/Select Element)
- ✔ Tables and Data grid
- ✔ XPath
- ✔ Embedded JavaScript
- ✔ Cross Platform Browser Testing

Collapse Selenium Framework & Infrastructure

- ✔ Creating Data Driven Tests (XML/DB/Excel)
- ✔ Linq queries (DDT)

Collapse Selenium Server (Optional)

- ✔ What is Selenium Server
- ✔ Intro for Selenium Grid
- ✔ Configuring Selenium Server
- ✔ Grid Configuration
- ✔ Setting up Grid

- ✔ Running a Test in Grid

- ✔ Best Practice Techniques and Structure

- ✔ Error Handling

- ✔ Actions And Alerts

- ✔ Running a Test in Grid

- ✔ Best Practice Techniques and Structure

- ✔ Error Handling

- ✔ Actions And Alerts