1. Selenium Introduction

Discussion about automation and different automation tools

Selenium Introduction

Selenium Components

Introduction of selenium Components

Platform and Language support

Limitations of the selenium

2.HTML, CSS, XPATH

HTML Tags and attributes

CSS and CSS Selectors

XPath - Nodes, Syntax, Axes, Operators, Examples

4. Selenium WebDriver

Selenium WebDriver Introduction

Download and Configure WebDriver bindings with Visual Studio

How to use WebDriver

Different drivers in WebDriver

Finding Elements and performing user actions

Writing WebDriver scripts

Running WebDriver Tests on Internet Explorer, Firefox & Google Chrome

Manage web driver (switching windows, timeouts, cookies etc.)

Loading browser profile

Debugging WebDriver Tests

Remote WebDriver

Taking screenshots

Remote webdriver

5. Identifying UI Elements (Locators)

Identifying WebElement using different locators and demonstrate usage of each

By ID, By Name, By Link, By PartialLink, By XPath, By CSS Selector, By Tag, By Class)

Handling various WebElement using WebDriver - Textbox, checkbox, radio button, web tables,

Using SelectElement

Finding multiple elements

Challenges in finding elements and solutions

Retrieving data from different controls for verifications

Working with complex controls like grids, third party controls etc.

6. Selenium Concepts

Actions

Performing different kinds of mouse operations

Performing different kinds of keyboard operations

Synchronization

Implicit wait

Explicit wait

Explicit wait with extension to make life easier Fluent wait

7. C# Concepts

- C# Program Structure
- C# Basic Syntax
- C# Data Types
- C# Type Conversion
- C# Variables
- C# Constants
- C# Operators
- C# Decision Making
- C# Loops
- C# Encapsulation
- C# Methods
- C# Nullables
- C# Arrays
- C# Strings
- C# Structure
- C# Enums
- C# Classes
- C# Inheritance
- C# Polymorphism
- C# Operator Overloading
- C# Interfaces
- C# Namespaces
- **C# Preprocessor Directives**
- C# Regular Expressions
- C# Exception Handling
- C# File I/O

7.Framework

Nunit Framework development and integration with existing open source frameworks

Download and Configure NUnit with Visual Studio

Nuit features – Attributes and Assertions

Page Object Model / Objects reusability