Selenium with C#

Duration: 24 Hours (3 Days)

Overview

The Selenium C# course is a comprehensive training program designed to equip learners with the skills necessary for automating web application testing using Selenium with C#. Starting with an overview, the course introduces the Selenium IDE, where trainees learn the basics such as Record & playback, Command types, Verifications, Asserts, and how to Export tests to C#/NUnit. As participants progress, they delve into Selenium WebDriver, covering Setup, Project structure, DOM, Element locators, Dynamic controls, and Cross-browser testing techniques. The course also explores the creation of robust frameworks, incorporating Data-driven tests and LINQ for querying. An optional module on Selenium Server provides insights into Selenium Grid and best practices for Scalable and parallel testing. By the end of the Selenium C# training, learners will be well-versed in automating browser-based tests efficiently, enhancing their testing capabilities and career prospects in software quality assurance.

Audience Profile

Selenium with C# is a specialized course designed for professionals looking to master browser automation and testing with the Selenium framework.

- Quality Assurance Engineers
- Test Automation Engineers
- Software Developers in Test (SDET)
- QA Analysts
- C# Developers interested in learning test automation
- Technical Project Managers overseeing testing teams
- DevOps Professionals focusing on CI/CD pipelines
- IT Professionals seeking to transition into automated testing roles
- Fresh graduates aiming to specialize in software testing
- Technical Consultants providing solutions in quality assurance

Course Syllabus

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