

Selenium Testing

Selenium Web Testing

Selenium is a testing tool for web applications that automates browser actions, simulating user interactions with the web page. The Remote Control extension allows Selenium tests to be scripted and executed from common programming environments like Java , Python and .NET.

This session introduces Selenium and the Remote Control, looking at how we can use Selenium to automate web application testing. It will also cover user interface testing practices and pitfalls.

Selenium tests run directly in a browser, just as real users do. And they run in Internet Explorer, Mozilla and Firefox on Windows, Linux, and Macintosh. No other test tool covers such a wide array of platforms.

Browser compatibility testing. Test your application to see if it works correctly on different browsers and operating systems. The same script can run on any Selenium platform. System functional testing. Create regression tests to verify application functionality and user acceptance.

- Introduction to Functional Testing
- Selenium History
- Selenium And The Web Testing Frameworks
- Components of Se (Se-IDE, Se-RC, Se-Grid)
- The Role of Automation - And what to automate

- **Se-IDE**
 - What it is good at
 - What it is not good at
 - 'First Script!'

- **Selenese** (Commands)
 - Actions
 - Accessors
 - Assertions

- **Locators**
 - Identifier
 - Id
 - Name

- Link
- DOM
- XPath
- CSS
- UI-Element

- **Checks**
- **Synchronization**

- **Se-IDE**
 - Test Cases
 - Test Suites
 - 'Second Script!'
 - User Extensions
 - 'Third Script!'
 - Exporting
 - Custom format
 - Lab

- **Se-RC**
 - What it is good at
 - What it is not good at
 - Selenium Server
 - Client Libraries
 - Integration with Java/Python
 - Checks
 - Locators
 - Synchronization
 - 'First Script!'
 - Static Provider
 - 'Second Script!'
 - CSV Provider
 - 'Third Script!'
 - Config Files
 - 'Fourth Script!'

- **Se-RC**
 - Accessing elements using DOM

- **Selenium Grid**
 - Overview
 - Where to Use
 - How to Use
 - Limitations
 - Advantages