

Selenium Java

Automation Web Testing

Selenium is a free (open source) automated testing framework used to validate web applications across different browsers and platforms. You can use multiple programming languages like Java, C#, Python etc. to create Selenium Test Scripts. Currently, Selenium Web driver is most popular with Java. Java is one of the most and useful programming languages, you can build back-end of web applications and build robust test automation framework. This course concentrates on Java programming concepts needed for Selenium WebDriver or any other Automation tool.

Duration:

40 Hours

Who Should Attend?

Beginners with No programming background, Quality Assurance professionals and Manual testers looking to start career on test automation

Main Topics:

- Java OOP's
- Inheritance
- Packages
- Collections Framework
- SpreadJS Excel
- Selenium-IDE
- Identification of Locators
- Selenium Commands
- TestNG Framework
- Cucumber Framework

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Java skills for Selenium:

Overview of Java

- OOP, Data Types and Variables
- Operators, Control Structures
- Strings, Arrays

Objects and Classes

- Object, Classes, and Methods
- Method Overloading
- Constructors

Inheritance

- Types of Inheritance
- Method Overriding
- Dynamic method dispatch

Packages and Interfaces

- Defining Packages
- Extending Interfaces

Exception Handling

- Fundamentals of Exception Handling
- Exception types
- Try and Catch and finally
- Multiple Catch

Input and Output in Java

- File handling
- Fetching data from Property File
- How to use excel data with Apache POI Jars
- Working with Excel

Collections Framework

- Collection Interfaces and Classes
- List, Set, HashSet, Iterator, other Classes

SpreadJS Excel Import & Export

- Set Up the JavaScript Spreadsheet Project
- Add Excel Import Code
- Adding Data to The Excel File
- Adding A Sparkline
- Adding Excel Export Code

Selenium

Introduction to selenium

- What is selenium?
- History and various versions of selenium
- Advantages of using Selenium over other tools.
- Selenium components

Selenium-IDE

- Introduction
- IDE Features
- Building & Running Test Cases
- Building and Running Test Suites

Selenium Web Driver 3.0

- Why Selenium Web Driver
- What is a Driver
- Automation Setup for Selenium Web Driver
- Configuration of Selenium Jar using Eclipse

Identification of Locators

- Tools to identify elements/objects
- Setup for Firebug, Firepath
- Different methods of finding element
- By ID, By name, class
- By Xpath, By Tag name
- By Link text
- By CSS
- Using Effective X-path

Selenium Commands

- Various types of operation that can be performed on any elements and how to use them.
- Browser Commands, Navigation Commands
- Working with different browser
- Handling Checkbox, RadioButton
- Dropdown and Select Operations

Selenium Java

- Handling Keyboard Event and Mouse Event
- Alert & Pop Up Handling
- Handling iFrame/Frame
- Multiple Window Handling
- Capturing Screenshots

Handling WebTables

- What is WebTables
- Extracting values from WebTables
- Static and Dynamic WebTables

Wait Commands in Selenium

- Implicit Wait
- Explicit Waits, TestNG Framework

TestNG Framework

- Test NG & TestNG features
- How to use TestNG and Junit in Selenium
- Advantages of TestNG over Junit
- How to integrate TestNG with Eclipse
- Test NG Annotations
- TestNG Reporting

POM Framework

- Advantages of POM
- How to implement
- Using Page Object and Page Factory

Cucumber Framework

- What is BDD
- Cucumber implements BDD
- Preparing Features File
- Writing a step definition
- Writing Runner Class



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מתקדמים
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באר שבע

רחוב האנרגיה 77
פארק ההייטק

ירושלים

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רחובות

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