

Java Selenium





About Course

Selenium is a browser automation framework. It provides several tools and APIs for automating user interaction on pure HTML and JavaScript applications in browsers such.. Read More. However, Selenium does not support rich internet application (RIA) technologies such as Silverlight, Flex or Flash, and JavaFX.

SELENIUM WITH JAVA CURRICULUM

1 JAVA

Introduction to Java

Introduction to Java Programming Language, Uses of Java language, Java Syntax Rules & Coding Standards, Java Environment Setup, Write & Execute first Java Program, And Write Java Programs using Eclipse IDE

Java Programming for Selenium

Overview of Java Programming, Java Modifiers, Data Types, Variables, Operators, Flow Control, Arrays, String Handling, File Handling, Exception Handling, and Methods. Java OOPS: Inheritance, Polymorphism, Abstraction, and Encapsulation.

Java Program Structure and Syntax

Java Programming Structure, Writing Comments, Declaring Methods, Declaring Variables,

Declaring Constants, Print Statements, usage of Operators, Writing Conditional Statements, Writing Loop Statements and Calling methods

Java Conditional and Loop Statements

Java Conditional and Loop Statements , explains
Types of Conditional statements in Java, Types
of Conditions and usage of conditional statements.
If statement and switch statements in Java with
examples. Java loop structures, for loop, while
loop, do while loop and enhanced for loop with examples.

Strings and Arrays in Java

Strings and Arrays in Java, explains String handling in Java, Creating Strings, String Concatenation, and String Comparison. Array declaration, types of Arrays, print Array, copy Array, Array methods and Advantages & Disadvantages of Arrays.

6 Input Output Operations and File Handling

Input and Output operations and File handling in Java, Explains reading different types of input and displaying output on the console.



Collections Framework

Introductions of Collections
Types of collections
Generic -List, Dictionary, Stack and Queue
Non Generic- ArrayList, HashTable, Stack and Queue

Introduction of Selenium

What is Automation Testing
Use of automation Testing
Tools for Automation Testing
Why automation is important for you career?
What is Selenium.
Advantage of Selenium.
History of Selenium.
Component of Selenium.
Architecture of Remote Control.
Architecture of WebDriver.
Architecture of GRID.
Differences between API's Vs GUI's

Selenium IDE:

Selenium IDE Introduction Record and Playback with Firefox and Chrome



Debugging in Selenium IDE Script Introduction Katalone Studio Record and Playback through Katalone Studio

Set up Eclipse:

Download and install java
Download and start Eclipse
Download and configure WebDriver java client
Set up a project
Create packages
Create a First Java test case
Import WebDriver Source file

WebDriver:

WebDriver Interface
WebElement Interface
Launching Firefox browser

Browser & Navigation Commands:

How to Open a URL Verify Page title Strategy to get the Page Source Difference between Close & Quit



Ways to Navigate Back & Forward
How to Refresh Page
Another way of Navigating to specific Page

13) Locators:

What are locators.
HTML Basics.
HTML language tags and attributes.
ID, Name, Xpath, CSS etc.
Difference between Absolute & Complete Xpath.
Finding your first element.

Element Identification:

WebElement Commands.

Element Inspector in Mozilla, Chrome and IE
Element Iocator tool for Firefox Locator
Firebug&Fire Path Add-Ons in Mozilla
Various HTML locator strategies
XPath Helper Plug-in for Chrome
Selection of Effective Xpath
Handling Dynamic objects/ids on the page

Tables, Checkboxes & Radio buttons:



Identify table rows and columns
Extracting values from a cell
Dynamically Identify Tables Data
Select class in Selenium
Drop Down Handle.
Select multiple values from the list
Select & Deselect operations by Index, Value & Visible Text.

Selenium Waits, Alert & Switch Windows:

Implicit and Explicit waits How to use Expected Conditions with Waits PageLoadTimeout & SetScriptTimeout property Simple use of Thread Sleep Concept of Fluent Wait in Selenium WebDriverWait and its uses Different WaitUntil Conditions Ways to handle Simple, Confirmation & Prompt Alert Concepts of Set Interface in Java Difference between Window Handle & Handles Switching & Closing Windows, Tabs & Popup's Concept of window ID Extracting window IDs with Selenium Object reference JavaScriptExecutor Interface Captured Screenshot Cookies Handles

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(17) Action Class:

What is Action Class & What can we do with Action Class Mouse Hover & Mouse Movement with Action Finding Coordinates of a Web Object Drag and Drop Action

Automation Framework:

What is Automation Framework
Features of Automation Framework
Benefits of using Automation Framework
Different types of Automation Framework
What is Data Driven Framework
What is Modular Driven Framework
What is Keyword Driven Framework
Apache POI API
POI Setup and Configuration
Read and Write Excel file with Apache POI
POM (Page Object Model)
Page Factory

Maven:

Maven Introduction Install Maven in Eclipse IDE



Install Maven on Windows
Install Maven on Mac
How to Create a New Maven Project
How to Create a New Maven Project in Eclipse
Configuration of POM & set multiple builds

20 Jenkins:

Jenkins Introduction.
Installation & configuration of complete Jenkins setup.
Scheduling of Maven build & set multiple builds in Jenkins.
Overview of integration between Jenkins & GitHub.
Overview of integration between Jenkins & AWS
Selenium Integration with Jenkins.

GitHub

Introduction of GitHub and Selenium integration.
Installation of git binaries
Github set up in eclipse IDE
Building repository on git
Test prepare in selenium using Github

Automation Test Script Development (Project Based)



Analyzing Manual Test Script Automation Test Script Development strategy Development Test Script according to manual script

23 Interview Preparation :

Technical Interview Preparation Mock interview Preparation HR Session GitHub





















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