



- By Kunal Sir

Selenium Training and Certification Classes in Pune

Selenium

Selenium is an open source, free automation testing tool used for web application testing. It is the most widely used tool now a days because of its extensive language and browser support. This course will cover selenium basics, selenium components, different types of selenium frameworks implementation by using Java language, TestNG, Cucumber test execution tools, project build management tool as Maven, Integrated development environment tool as Eclipse, continuous integration tool as Jenkins.

Prerequisites

- Knowledge of Manual Testing is required.
- Core Java

Duration: 70 Hours

Training Highlights:

- We cover the complete core java training from selenium point of view.
- Trainers are experts in selenium tool and having years of industry experience.
- This training covers advanced selenium course which focuses on automation framework.
- We provide complete selenium tool training on live project which gives student hands of experience in tool.
- Provide Interview tips and assist in resume formation.

Selenium Syllabus

Selenium Basics

1. Introduction to Automation Testing

What is Automation Testing?

Which Test Cases to Automate?

Different Automation tools

Automation Challenges & Mitigations

2. Introduction to Selenium

What is selenium?

History and various versions of selenium

Advantages of using Selenium over other tools

Selenium components





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3. Selenium Web Driver 3.0

What is a driver?

Why Selenium Web Driver?

What is a Selenium Web Driver?

Automation Setup for Selenium Web Driver

Configuration of Selenium Jar using Eclipse

Setup for Firebug, Firepath for Mozilla Firefox browser

Web Driver Interface Methods

4. HTML

HTML basics

5. Locators

Use of locators

Different locators available in Selenium

- ID
- Name
- Link text
- Partial Link Text
- ClassName
- Tag name
- Xpath,
 - Absolute Xpath
 - Relative Xpath
 - Dynamic Xpath
- CSS

6. WebElement

Search WebElements on web pages

Web Element Methods

7. Synchronizing Test with Wait

Implicit Wait

Explicit Wait

Fluent Wait

With examples

8. Action Interface and Action class

Introduction

Use of Action class

Action class methods with description

Building a series of multiple actions





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9. Miscellaneous Selenium scenarios

- Capturing Screen shots
- Alert and Pop up handling
- Frames handling
- Cookies
- Why we handle Cookie in Selenium?
- Cookies methods
- Multiple Window Handling
- Calendar handling
- Java Script injection
- Locate and handle web elements of Ajax framework
- Verifying statements

10. Handling Web Tables

- What is Web Tables?
- Extracting values from Web Tables
- Static and Dynamic Web Tables

11. Excel sheet Operations

- Introduction
- Read excel sheet with .xls & .xlsx format by using Apache POI jars
- Write excel sheet .xls & .xlsx format by using Apache POI jars

Advanced Selenium

1. Framework Designing

- What is a Framework?
- Different Types of Framework
- How to Design a framework?
 - Modular Testing Framework
 - Data Driven Framework using Excel
 - Downloading and configuration of Apache POI
 - Executing Test cases from Excel
 - Keyword Framework
 - Hybrid Framework

2. TestNG

- TestNG & TestNG features
- How to integrate TestNG with Eclipse
- Integration of Maven with TestNG by using POM file
- Parameterization by using Data Provider





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Parameterization by using testing.xml file

TestNG listeners

TestNG Annotations

TestNG Assertions

TestNG Reporting

3. Properties File

Creation of Properties File

Properties Class

Read/Write properties file with example

4. Page Object Model

Introduction

Advantages of POM

How to implement POM using Page Object and Page Factory by using Selenium WebDriver

5. Log4j

Introduction

Log4j properties

Integration of Log4j with Eclipse

Use of log4j in Selenium framework

6. Behavior driven development (BDD) framework using Cucumber

What is BDD?

Use of Cucumber tool to implement BDD framework

How to convert User Story into scenario's format

Preparing Feature files having test scenarios

Given, When, Then, And, But annotations and usage in features class

Writing a step definition

Writing Runner Class

Passing parameters in Step Functions

Using regular expression in step implementation to parameterize

Parameterize complete scenario using features class

Cucumber Annotations

Data table in Cucumber and its implementation

Pretty, Tags and Glue

Cucumber HTML Reports Log4j Usage

Using Assertions to report failure

Running simple feature/Step scenario

Handling multiple feature files

Use log4j for reporting

Executing project from eclipse





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Executing project from Maven
Generating Junit, Cucumber reports
Background and Pending Exception
Implementing/deciding Tags
Running all/limited tests

7. Build Tools-Maven

How to create a maven project in Eclipse
Maven Build Cycles
How to compile and Run tests using Maven 8.

Continuous Build Integration tools-Jenkins

What is Jenkins and how to use it?
Integration of Maven/TestNG/Jenkins/Selenium

9. Selenium Grid

Introduction & Architecture of Selenium Grid
Configuration of Selenium
Selenium Grid (Hub and Node)
Writing a Sample Script using Selenium RC
Some Practice and Sample Programming using Grid

10. Auto IT

Introduction
Download file using Auto IT in Selenium Web Driver with example

11. Java Database Connectivity (JDBC)

Introduction
Java Integration with database
Fetching records from database and write on .xlsx or .xls file by using Apache POI jars

