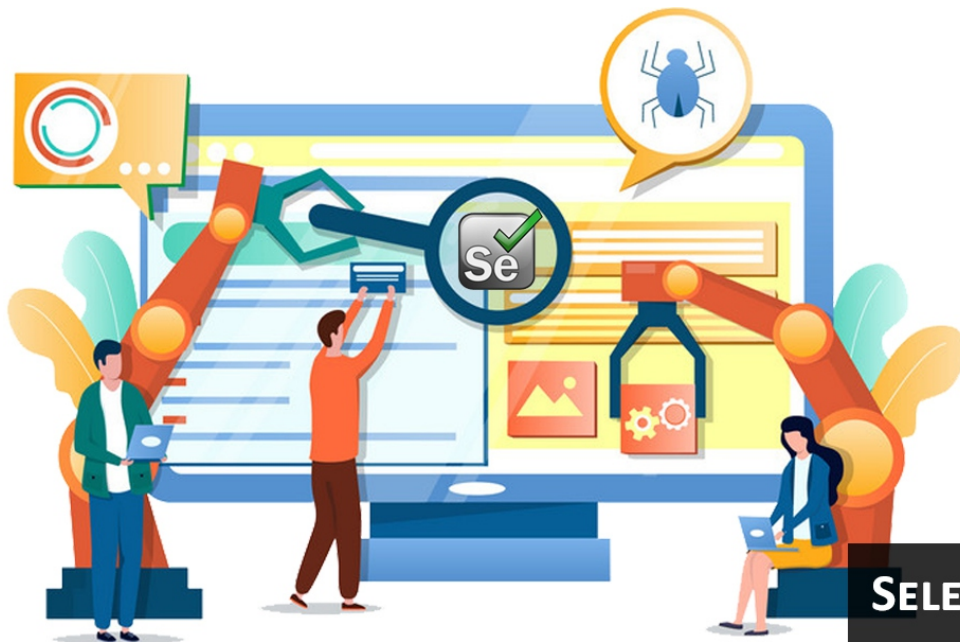# Selenium with Java

Selenium with Java

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1. Introduction Of Selenium

Explanation of selenium and its advantages
Differences between selenium and QTP

2. Components Of Selenium

Selenium IDE
Selenium RC
Selenium Grid
Selenium WebDriver

3. Selenium JAVA language

Introduction
Data types
JAVA Variables
JAVA Modifier. Comments in JAVA
JAVA Basis
Execution of JAVA

4. Introduction Of Selenium IDE

Main Features of Selenium IDE
Installing Selenium IDE
Test with Selenium IDE

5. Selenium Webdriver

Introduction to selenium webdriver
Setting up eclipse
Downloading and configuring webdriver in eclipse

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6. Selenium WebDriver Commands

Get Commands
Navigate Commands
Element Visibility Commands
Other Commands

7. Locators Of Selenium (Webdriver)

Tools to identify elements and object
Google Chrome Developer Tools
Locating elements by ID, Name, LinkText, ClassName etc.
XPath , Types in X-path

8. Advanced Features IN Selenium

Handling Pop Up / Alert Window
Drop Down Operation
Scroll Down/up
Right Click Operation

9. Concept of framework

Introduction to framework
Use of framework
Different types of framework
Different types of packages in framework

10. TestNG Framework

Introduction to TestNG
Setting up eclipse
Downloading and configuring TestNG in webdriver
Functionality provided by TestNG
    Parallel Testing
    Report Generation Etc.

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11. Data Driven Framework

Data driven testing
Apache poi library and installation
Advantages of using Data Driven Framework

12. Java For WebDriver

Introducing the JAVA technology
Relating Java with other languages
Showing how to download, install, and configure the Java environment
on a Windows system
Key features of the technology and advantages of using Java
Java Features
Java Keywords , Java Data Types
Declarations and Access Control
Operators and Assignments , Arrays , Packages
Introduction to all predefined packages , User Defined Packages,
Access Specifiers

13. Object-Oriented Programming Concepts

Introduction to Class , Object
Inheritance and Types
Using types of polymorphism such as overloading, overriding,
and dynamic binding
Interfaces

Introduction Exceptions categories

Standard Java Exception classes
Using Try-catch and finally clause

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Collections

Introduction to Collections framework
List, Set and Map
Difference of All Collections Interfaces and classes
Reading data from Property files using java program
Reading and Writing data from/to Excel files using Apache POI
API and JXL API

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