**Selenium Automated Testing :**

Introduction:

## **Selenium**

Selenium is one of the most widely used open source Web UI (User Interface) automation testing suite.It was originally developed by Jason Huggins in 2004 as an internal tool at Thought Works. Selenium supports automation across different browsers, platforms and programming languages.

Selenium can be easily deployed on platforms such as Windows, Linux, Solaris and Macintosh. Moreover, it supports OS (Operating System) for mobile applications like iOS, windows mobile and android.

Selenium supports a variety of programming languages through the use of drivers specific to each language.Languages supported by Selenium include C#, Java, Perl, PHP, Python and Ruby.Currently, Selenium Web driver is most popular with Java and C#. Selenium test scripts can be coded in any of the supported programming languages and can be run directly in most modern web browsers. Browsers supported by Selenium include Internet Explorer, Mozilla Firefox, Google Chrome and Safari.

**Selenium Features:**

* Selenium is an open source and portable Web testing Framework.
* Selenium IDE provides a playback and record feature for authoring tests without the need to learn a test scripting language.
* It can be considered as the leading cloud-based testing platform which helps testers to record their actions and export them as a reusable script with a simple-to-understand and easy-to-use interface.
* Selenium supports various operating systems, browsers and programming languages. Following is the list:
* Programming Languages: C#, Java, Python, PHP, Ruby, Perl, and JavaScript
* Operating Systems: Android, iOS, Windows, Linux, Mac, Solaris.
* Browsers: Google Chrome, Mozilla Firefox, Internet Explorer, Edge, Opera, Safari, etc.

Conclusion:

Automation testing using Selenium with Java has made life easier for developers and testers. Being an open-source tool, it provides an opportunity to speed up the time of execution and to remove manual redundancy and human-prone errors.

Learning Selenium with Java optimizes testing, especially in regression and cross-browser testing.

With multiple plugins making their way into Selenium, it has resulted in making testing effortless and less time-consuming. Continuous Integrations with Jenkins and Maven have led to continuous testing models.