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An open source software testing- Selenium automated testing by Roger Lopez

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There are many software applications, which are written as web based applications and are runned in a web browser. To test these applications, there are various organizations and companies that are using different methodologies like agile. These companies also perform test automation to test software applications for software projects. Test automation is conducted to test the application by using software tools that runs repeatable tests.

There are several open source tools and commercial tools that help in the development of test automation. The most powerful software open source tool that is used for test automation is selenium. Selenium is a set that has different software tools and uses Java script. The software tools of selenium have different approach in supporting test automation.

In simple words selenium is a automated tool that is used for the following:

Web based applications

Embedding test automation engine in users or clients browser

Functional regression testing

There are various advantages with selenium test automation that improves the efficiency of a software teamâ€™s testing processes that our outsource software development. There are numerous organizations that are outsourcing this software and the test automation supports-

Selenium Remote Control (RC) is a Java server that is used for execution of test scripts.

With selenium Core client side testing web applications are added directly in the clientâ€™s application.

For recording test scripts selenium IDE and add-on to Firefox is used.

Selenium is incorporated with unit testing frameworks, such as J Unit and N Unit; it also helps developers to test the application.

There are various advantages of selenium automated testing, such as it is an open source & free software and is easy to install. In addition to this selenium testing is a scripting technique (has modular scripts and play back of scripts & easy recording), no machine is required for test automation.

Along with this, there are many more benefits of selenium testing, such as

Compatibility: It allows cross border testing (it records in Firefox and executes in IDE) and has multiple operating systems like Linux, Windows and Max

It has integration with third part tools for example, RTH Test Case Management Tool

The most important factor of selenium testing is that it supports oneâ€™s tests on multiple browser platforms. The various tools of selenium automated testing are Selenium 1 (aka. Selenium RC or Remote Control), Selenium 2 (aka. Selenium Web driver), Selenium-Grid and Selenium IDE.

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