

# SELENIUM

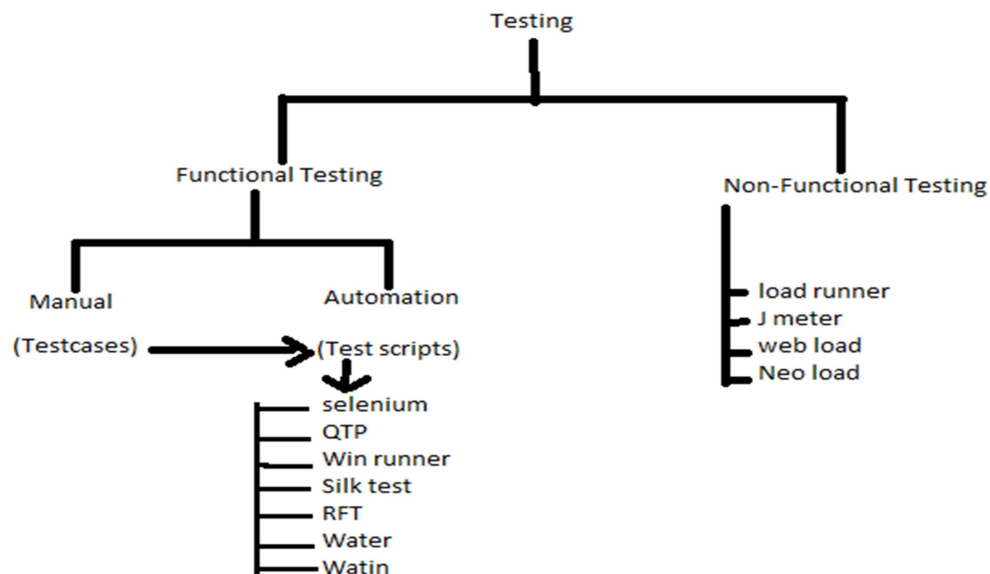
It is an open source functional automation tool.

## Automation:-

The process of converting the manual test cases to test scripts with the help of some automation tool is known as automation. These scripts can be executed on the targeted application when ever needed.

## Advantages:-

- We can save the test execution time( regression time). On and average to save around 50-60% of the test execution time.
- We can reduce CTC (Cost To The Company).
- The test scripts are repeatable on multiple builds.
- We can maintain accuracy by executing the same scripts in the same manner.
- Bugs can be identified.
- The tool will provide the test report to analyse the bugs and we can ensure for quality.



500 - Testcases

Day - 50 to 60 / 8hrs

500 - 9 to 10 Days

500 - Automate

400 - Automated - 0 Days

100 - NA - 2Days



**What is the difference between selenium and QTP? (Or) Why you have selenium for your project?**

#### Selenium features

- Open source
- Java, perl, php, python, ruby, C#, html.
- Firefox, IE, GChrome, Safari, opera.
- Windows, MAC, Linux.
- Flexible & Extendable.
- Web apps & Mobile apps

#### QTP features

Commercial tool & Costly  
VB script  
  
IE, Firefox, GChrome.  
  
Windows.  
Flexible & Extendable less.  
Desktop, Web, Mobile apps.

#### **Note:-**

Selenium is for web and mobile applications. If any desktop components or fields available in the application can handled with the help of SIKULI or AUTOIT.

#### **When to start automation for a project?**

- When the application is stable to save the regression testing time when can go for automation.
- If you are using agile process (Scrum model) then we don't wait until the build is stable. The requirements/sprints/iterations are stable. Then we can go for automation
- We should have the budget and approval mail from the client or lead to start automation.

#### **What kind of application can be automated by using selenium?**

- Selenium supports all kinds of web applications and mobile applications irrespective of the language.

- We can use any supported language to automate all the applications.

