Selenium WebDriver Installation

Selenium :-

Selenium is an open-source and a portable automated software testing tool for testing web applications. It has capabilities to operate across different browsers and operating systems. Selenium is not just a single tool but a set of tools that helps to automate web-based applications more efficiently.

Benefits of selenium:-

- It has capability to execute scripts across different browsers.

- Can execute scripts on various operating systems.

- Can execute tests in parallel with the use of Selenium Grids.

Installation Steps:-

1] Download and install Java in your system

Steps to install java:-

`````````````````````````

**Step 1** :  Download And Install Java/JDK In Windows

i) Go to java download page and download the java latest version.

(http://www.oracle.com/technetwork/java/javase/downloads/index.html)

ii) Download and install jdk in the system.

**Step 2** :  Set JAVA_HOME Variable In Windows.

**Locate JDK Installation folder path**

First of all you need to locate path of JDK installation folder.

Go to **C:\Program Files\Java**.

There will be JDK folder with version number. Example : For eg: ("jdk1.8.0_101")

Double click on It.

Copy folder path. Example : **C:\Program Files\Java\jdk1.8.0_101**

**Step 3 :** Set JAVA_HOME Variable

1. Go to **control panel**

2. click on **System**

3. Click on **Advanced System settings**

4. Click on Advanced tab -> Click on **Environment Variables** button

It will open Environment Variables dialog.

5. Under **System Variable**, Click on New button. It will open New System Variable

dialogue box

Set Variable name = **JAVA_HOME**.

Set Variable Value = Path where JDK is located. For eg:( "**C:\Program Files\Java  \jdk1.8.0_101**" ) which is located during previous step as described above . It depends    on your own java installation path and installed version.

2] Download webdriver jar files(**Java)** from the following link http://www.seleniumhq.org/download/

3] Download and install Eclipse from the following link
http://www.eclipse.org/downloads/eclipse-packages/

4] Configure libraries with the Eclipse IDE

**Steps to create a project and configure libraries :-**

```````````````````````````````````````````````````````````````

1. Create a New Project (**File** -> **New** -> **Java Project**)

2. Create a Package (Right click the created project -> **New** -> **Package)**

3. Create a Class (Right click the created package -> **New** -> **Class**)

4. Now configure the created java project.Right click the created project and select **Java Build Path**

5. Under the **libraries** folder select all the jar files.

5] Install TestNG in the Eclipse IDE

Steps to install TestNG :-

``````````````````````````````````

1. On top menu bar , Under **Help** Menu, Click on "**Install  new Software**" in help window

2. Enter the URL ([http://beust.com/eclipse/](http://beust.com/eclipse/)) at **Work With** field and click on "**Add**" button.

3. Once you click on "**Add**", it will display the screen, Enter the Name as "TestNG"

4. After clicking on "**OK**", it will scan and display the software available with the URL which is mentioned.

5. It will check for the requirement and dependencies before starting the installation.

6. Once the above step is done, it will ask to review the installation details. If ready or Ok to install TestNG, click on "**Next**" to continue.

7. Accept the Terms of the license agreement and Click on "**Finish**" button.

6] Get report from TestNg

### Steps to get report from TestNG :-

````````````````````````````````````````````
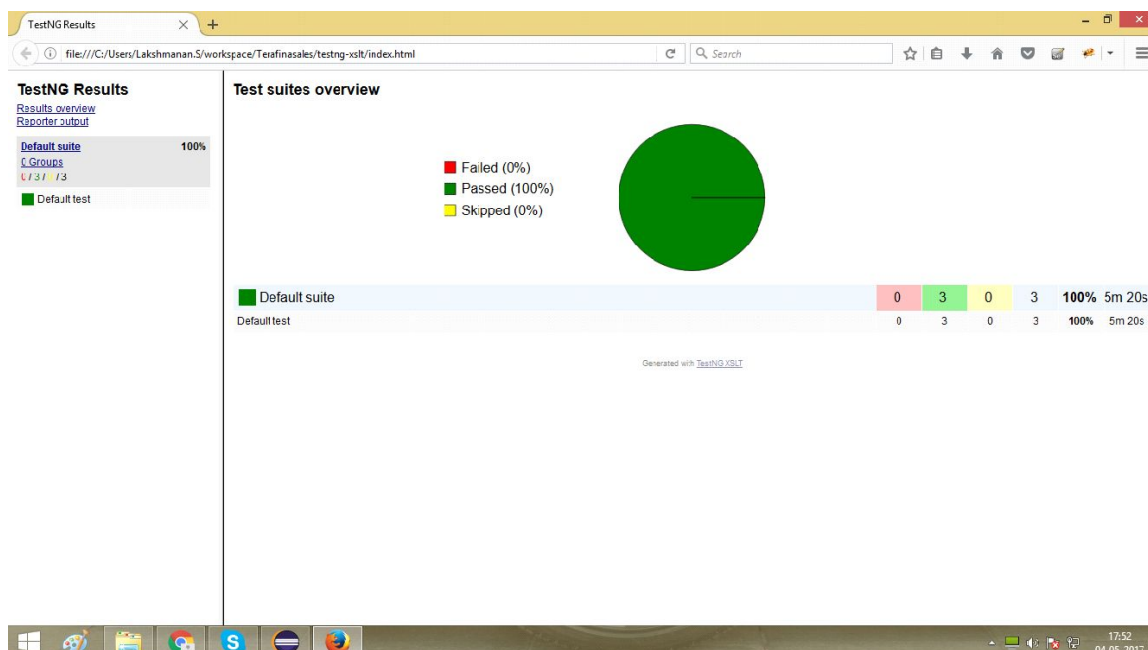
1. Convert the created class into TestNG (Right click Class -> **TestNG** ->**Convert**

   TestNG Class)

2. **Build.xml** file is created after the conversion

3. Now run the xml file (Right Click **Build.xml** -> **Run as** -> **Ant**)

4. Note the location displayed in the console while running the xml file

5. Go to that location and Double click the executable file, Generated report is

   displayed.

Sample Report :-

```````````````````````

file:///C:/Users/Lakshmanan.S/workspace/Terafinasales/testng-xslt/index.html    C'   Search

**TestNG Results**

Results overview
Reporter output

| Default suite | 100% |
|---|---|
| 0 Groups | |
| 0 / 3 / 3 | |

■ Default test

All methods in suite **Default suite**     | 0 | 3 | 0 | 3 | **100%** 5m 20s

☑ Group by class

☑ All
   ☑ Failed ☑ Passed ☑ Skipped ☑ Config

**testfuseplm.Fuse**

| Name | Started | Duration | Exception |
|---|---|---|---|
| login() | 17:46:02 | 23s | |
| part() | 17:46:25 | 1m 52s | |
| logout() | 17:48:18 | 3s | |
| login() | 17:48:21 | 33s | |
| product() | 17:48:55 | 55s | |
| logout() | 17:49:50 | 23s | |
| login() | 17:50:13 | 24s | |
| boards() | 17:50:37 | 41s | |
| logout() | 17:51:18 | 3s | |

Generated with TestNG XSLT

04 May 2017
Thursday

17:53
04-05-2017