

Experiment No. - 7

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Branch: BE-CSE(LEET)

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Subject Name: Software Testing Lab

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Section/Group: 20BCS-ST-801/B

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➤ Aim/Overview of the practical:

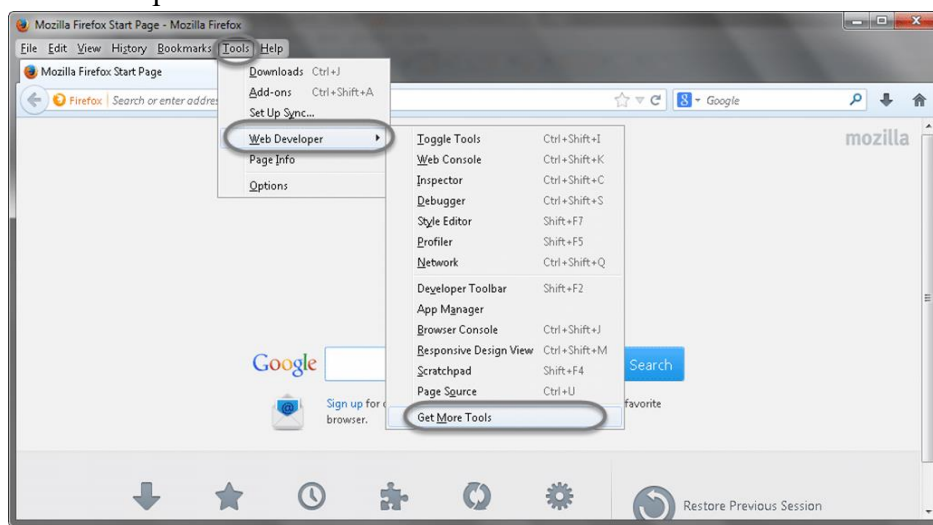
Install and configure selenium IDE, Firefox, Firebug plug-in, Fire Path.

- **Objective:** Firebug integrates with Firefox to put a wealth of web development tools at your fingertips while you browse. You can edit, debug, and monitor CSS, HTML, and JavaScript live in any web page. The whole content of this page is taken from the <https://getfirebug.com/html>.
- **Requirement Analysis:** - Google Chrome, Firefox, POSTMAN, Online tool.
- **Hardware Requirement:** - Computer, Windows Power Supply.

➤ How to Download FireBug?

FireBug is a plugin that comes with Firefox browser; hence it is easily downloadable from Firefox itself.

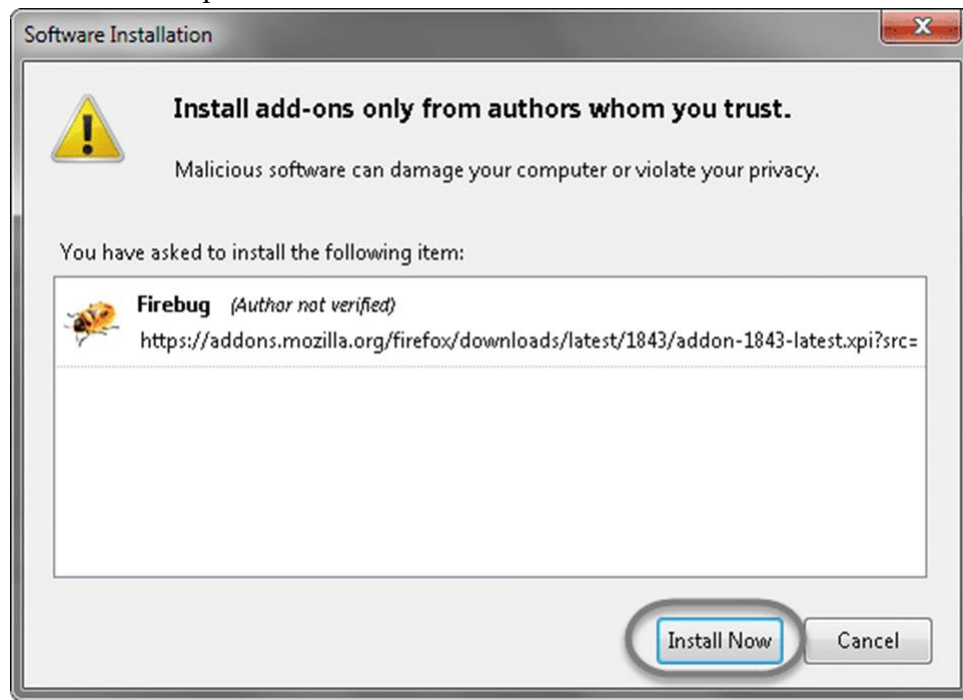
1. Go to Tools > Web Developer > Get More Tools.



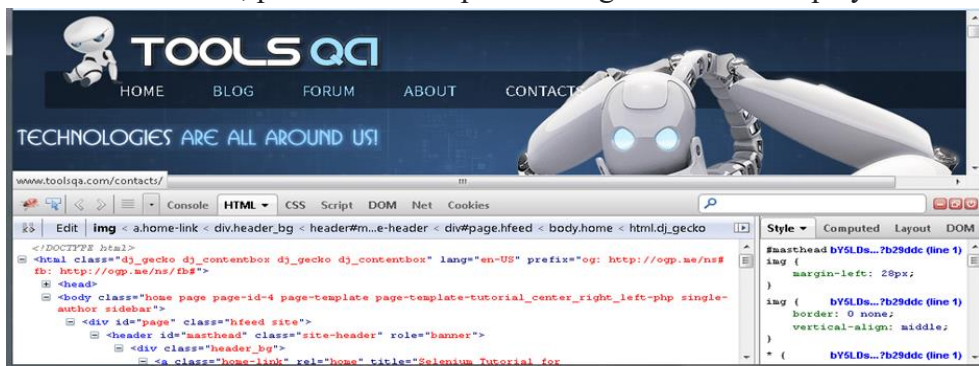
2. It will open a Webpage and display all the plugins available for Firefox browser. As we need Firebug, just click on Add to Firefox button for Firebug.



- Hit on Install Now button to proceed.



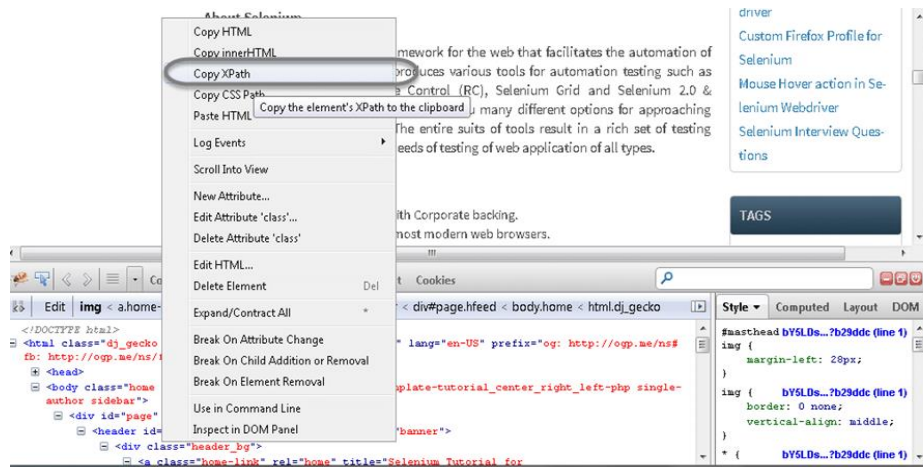
- Once the Installation is finished, press 'F-12' to open Firebug tool. It will display like this.



How to Use it: -

Most of the time it is used to **Inspect** Elements on a Webpage and to get the **XPath** of the Elements from a Webpage.

- **Elements:** Please visit [Finding Elements using Browser Inspector](#) for details explanation on How to find Elements using Browser Inspector.
- **Copy XPath:** Copying XPath is really very handy. Once you are done with selecting an Element using Inspector, all you need to do is to **Right click** on the **HTML code** of the selected element and select **Copy XPath**.



- Now you can paste the copied XPath on your test script by pressing 'Ctrl + V'. It will display like this:
`/html/body/div/header/div/a/img`

What is FirePath

It is an extension to FireBug that adds a development tool to edit, inspect and generate XPath expressions and CSS3 Selectors.

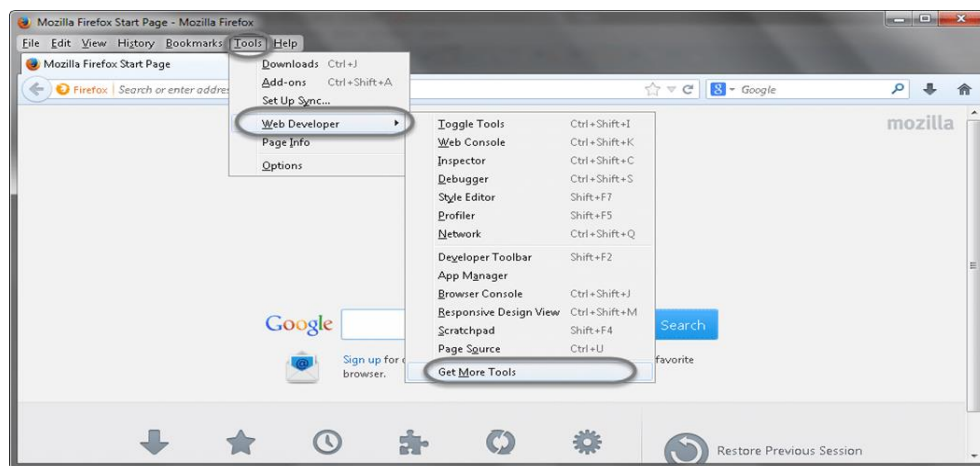
Why it is Useful to Selenium Automation Tester

- You can type self-written XPath and check if it is correct by highlighting the results directly on the Webpage.
- Generate an XPath expression or a CSS selector for an element by right-clicking on it and selecting "**Inspect in FirePath**" in the context menu.
- Like Firebug it also gives you the XPath of the selected Element.

How to Download Fire path:

Fire path is an extension to Firebug, so you would only be able to install it after installing Firebug.

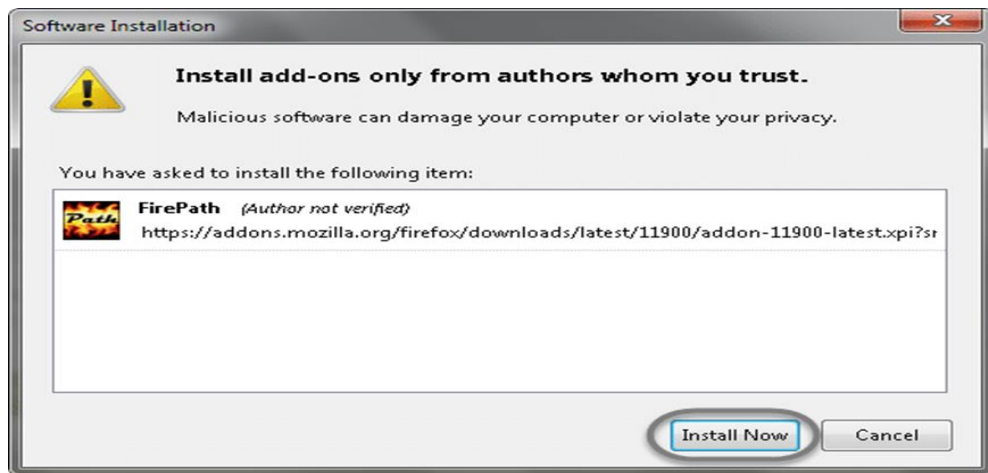
- Go to **Tools > Web Developer > Get More Tools**.



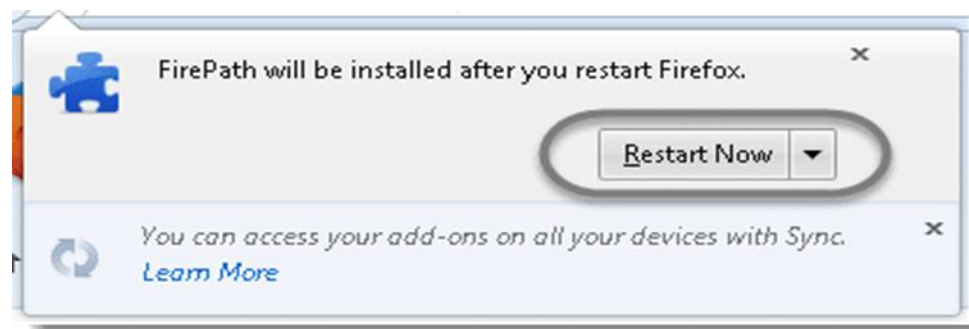
· It will open a Webpage and will display all the plugins available for Firefox browser. As I said before that it is an extension to Firebug, you need to click on the **Extensions** link and the type **Firepath** on the **Search** field. As we need FirePath, just click on **Add to Firefox** button for FirePath.



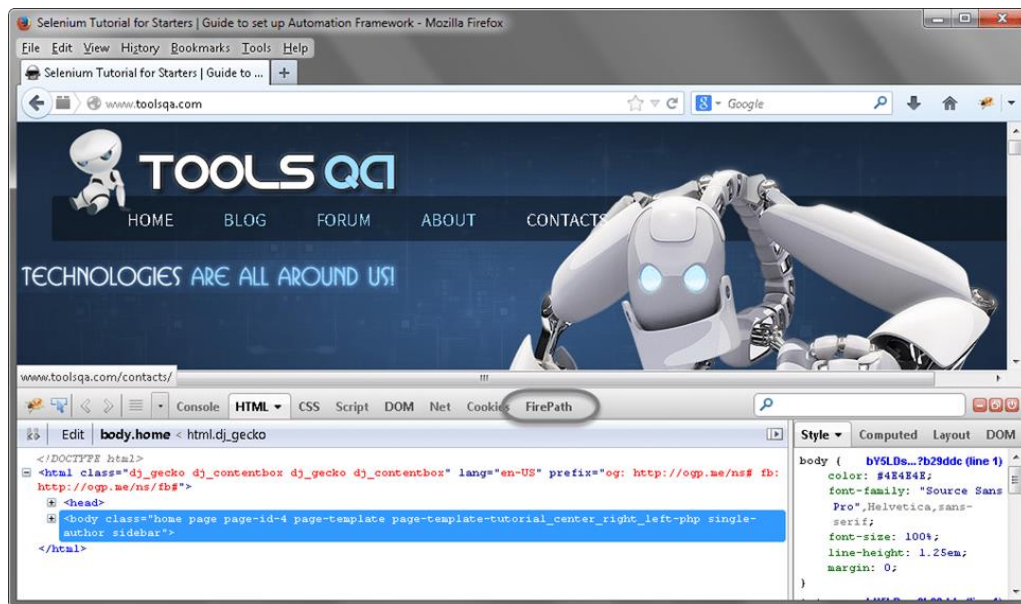
· Hit on **Install Now** button to proceed.



· Once it is installed, it will ask to Restart the browser. Click on **Restart Now** button.

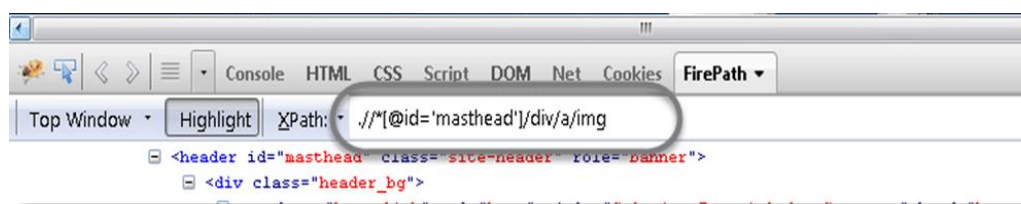


· Once it is opened, press '**F-12**' to open Firebug tool. It will display the **FirePath** on the same console like this:



How to Use FirePath:-

· **Inspect Elements:** Please visit [Finding Elements using Browser Inspector](#) for details explanation on How to find Elements using Browser Inspector. But unlike FireBug, it displays the XPath of the selected element on the console.



· **Copy XPath:** Copying XPath is really very handy. Once you are done with selecting an Element using Inspector, all you need to do is to Copy the XPath of the selected element and paste it to your Test script by pressing 'Ctrl + V'. It will display like this: `//*[@id='masthead']/div/a/img`

Difference between FireBug and FirePath

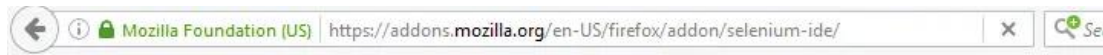
The only difference from Automation tester point of view is FireBug returns Absolute XPath and FirePath returns Relative XPath.

Step 1: Download and Install Selenium IDE

Open Mozilla firefox and go to the below mentioned link

<http://docs.seleniumhq.org/download/>

Under Selenium IDE section, click on the link as shown in the below pic.



Selenium IDE

Selenium IDE is a Firefox plugin which records and plays back user interactions with the browser. Use this to either create simple scripts or assist in exploratory testing. It can also export Remote Control or WebDriver scripts, though they tend to be somewhat brittle and should be overhauled into some sort of Page Object-y structure for any kind of resiliency.

Download latest released version [from addons.mozilla.org](https://addons.mozilla.org/en-US/firefox/addon/selenium-ide/) or view the [Release Notes](#) and then [install some plugins](#).

Download [previous versions here](#).

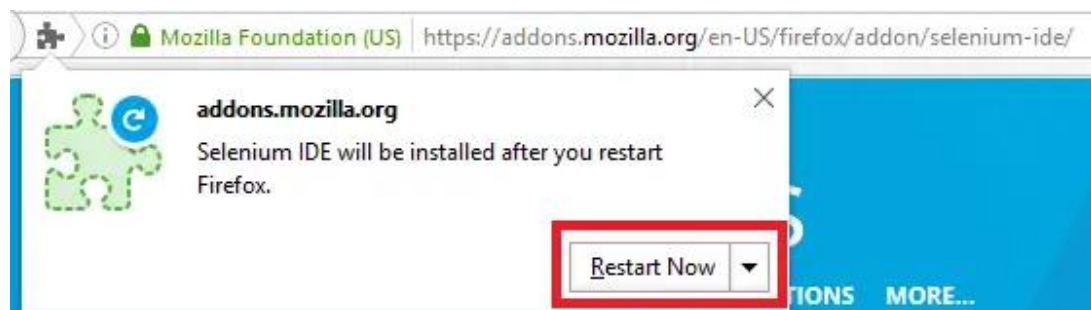
Click on Add to Firefox button



Click on Install button

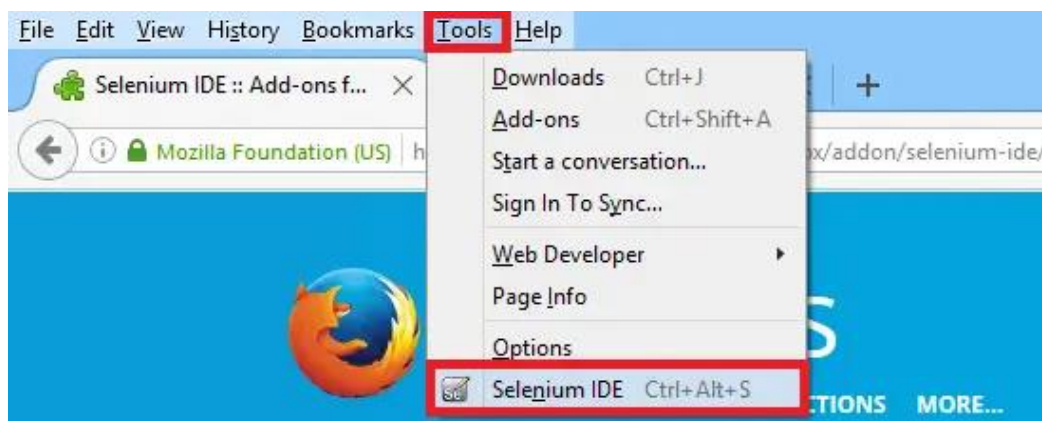


Click on Restart Now



Now you could see Selenium IDE by navigating through

Tools – Selenium IDE or by typing **Ctrl+Alt+S**



Learning outcomes (What I have learnt):

We have learned the installation of Selenium IDE in The Firefox Browser

We have learned the how to use Selenium IDE in The Firefox Browser.

Evaluation Grid (To be created per the faculty's SOP and Assessment guidelines):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day).		
2.	Post-Lab Quiz Result.		
3.	Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions.		
	Signature of Faculty (with Date):	Total Marks Obtained:	