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SELENIUM – ENVIRONMENT SETUP

Lecture Notes

A COMPLETE GUIDE FOR BEGINNERS

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Selenium – Environment Setup

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Download Selenium WebDriver Java Client

Selenium WebDriver supports many languages and each language has its own client driver. Here we are configuring selenium 2 with java so we need '**webdriver Java client driver**'.

Using the following steps one can download the Selenium WebDriver for Java Client.

Step 1:

Go to "***docs.seleniumhq.org/downloads/***" and download the latest Selenium Standalone Server. (During this lecture preparation the latest version is 3.4.0)

Selenium Client & WebDriver Language Bindings

In order to create scripts that interact with the Selenium Server (Selenium RC, Selenium Remote WebDriver) or create local Selenium WebDriver scripts, you need to make use of language-specific client drivers. These languages include both 1.x and 2.x style clients.

While language bindings for other languages exist, these are the core ones that are supported by the main project hosted on google code.

Language	Client Version	Release Date			
Java	3.4.0	2017-04-21	Download	Change log	Javadoc
C#	3.4.0	2017-04-21	Download	Change log	API docs
Ruby	3.4.3	2017-06-15	Download	Change log	API docs
Python	3.4.3	2017-05-30	Download	Change log	API docs
Javascript (Node)	3.4.0	2017-04-21	Download	Change log	API docs

Step 2:

Save the .zip file to you disk.

Step 3:

Once you have downloaded the archive you will need to **Extract** the zip file, which will create the unzipped Selenium Java folder.

Step 4:

Once the extraction process is complete, **Open** the Selenium folder.

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2

Step 5:

There will be '**libs**' folder, 1 jar file, 1 License file, and 1 Notice file in unzipped folder as shown in bellow figure. We will use all these files for configuring WebDriver in Eclipse.

lib	4/21/2017 1:01 PM	File folder	
client-combined-3.4.0-nodeps	4/21/2017 1:01 PM	Executable Jar File	1,387 KB
LICENSE	2/23/2017 11:46 AM	File	12 KB
NOTICE	2/23/2017 11:46 AM	File	1 KB

Configure Eclipse with Selenium WebDriver

To configure Eclipse with Selenium WebDriver, we need to perform the following activities:
- Launch the Eclipse IDE & Create a Workspace
- Create a new Project
- Create a new Package
- Create a new Class
- Add External libraries to the project

As we know how to write java program in Eclipse, we are not going to cover Launching Eclipse, Creating new project, package and class.

Once create a project, package and class have created we need to add Selenium WebDriver's Jar files in to Java build path.

Add External Jars to Java build path

Step 1:

Right click on Project then select Properties. Click on Java Build Path from left panel.

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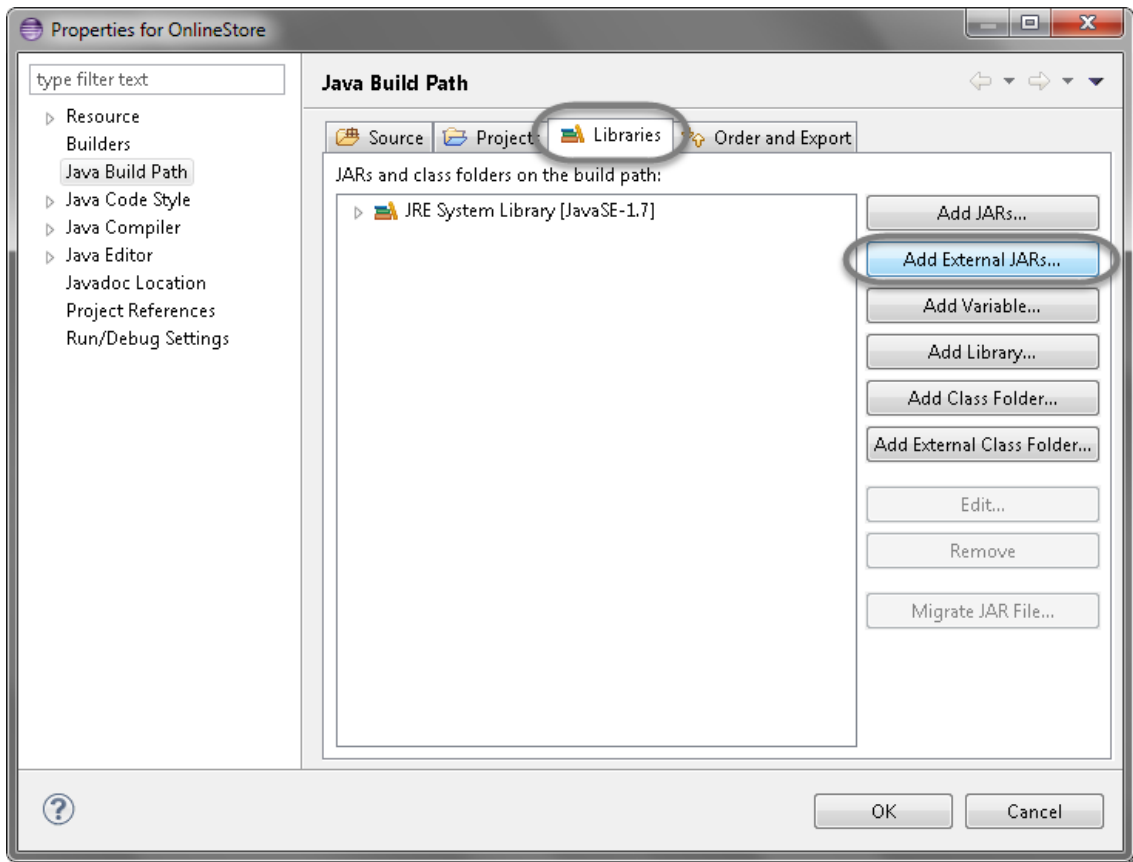
Step 2:

Add Selenium Java jar.

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4

Step 3:

Add all the jars from the *libs* folder as well.

selenium-java-3.4.0 > lib			
Name	Date modified	Type	Size
cglib-nodep-3.2.4	4/21/2017 1:01 PM	Executable Jar File	343 KB
commons-codec-1.10	4/21/2017 1:01 PM	Executable Jar File	278 KB
commons-exec-1.3	4/21/2017 1:01 PM	Executable Jar File	54 KB
commons-io-2.5	4/21/2017 1:01 PM	Executable Jar File	204 KB
commons-lang3-3.5	4/21/2017 1:01 PM	Executable Jar File	469 KB
commons-logging-1.2	4/21/2017 1:01 PM	Executable Jar File	61 KB
cssparser-0.9.22	4/21/2017 1:01 PM	Executable Jar File	373 KB
gson-2.8.0	4/21/2017 1:01 PM	Executable Jar File	227 KB
guava-21.0	4/21/2017 1:01 PM	Executable Jar File	2,463 KB
hamcrest-core-1.3	4/21/2017 1:01 PM	Executable Jar File	44 KB
htmlunit-2.26	4/21/2017 1:01 PM	Executable Jar File	1,933 KB
htmlunit-core-js-2.26	4/21/2017 1:01 PM	Executable Jar File	1,187 KB
htmlunit-driver-2.26	4/21/2017 1:01 PM	Executable Jar File	73 KB
httpclient-4.5.3	4/21/2017 1:01 PM	Executable Jar File	731 KB
httpcore-4.4.6	4/21/2017 1:01 PM	Executable Jar File	317 KB
httpmime-4.5.3	4/21/2017 1:01 PM	Executable Jar File	41 KB
javax.servlet-api-3.1.0	4/21/2017 1:01 PM	Executable Jar File	94 KB
jetty-io-9.4.1.v20170120	4/21/2017 1:01 PM	Executable Jar File	128 KB
jetty-util-9.4.1.v20170120	4/21/2017 1:01 PM	Executable Jar File	442 KB
jna-4.1.0	4/21/2017 1:01 PM	Executable Jar File	894 KB
jna-platform-4.1.0	4/21/2017 1:01 PM	Executable Jar File	1,431 KB
junit-4.12	4/21/2017 1:01 PM	Executable Jar File	308 KB
neko-htmlunit-2.25	4/21/2017 1:01 PM	Executable Jar File	127 KB
phantomjsdriver-1.4.0	4/21/2017 1:01 PM	Executable Jar File	12 KB
sac-1.3	4/21/2017 1:01 PM	Executable Jar File	16 KB
serializer-2.7.2	4/21/2017 1:01 PM	Executable Jar File	270 KB
websocket-api-9.4.3.v20170317	4/21/2017 1:01 PM	Executable Jar File	42 KB
websocket-client-9.4.3.v20170317	4/21/2017 1:01 PM	Executable Jar File	31 KB
websocket-common-9.4.3.v20170317	4/21/2017 1:01 PM	Executable Jar File	195 KB
xalan-2.7.2	4/21/2017 1:01 PM	Executable Jar File	3,081 KB
xercesImpl-2.11.0	4/21/2017 1:01 PM	Executable Jar File	1,336 KB
xml-apis-1.4.01	4/21/2017 1:01 PM	Executable Jar File	216 KB

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5 ◎

Step 4:

Click OK.
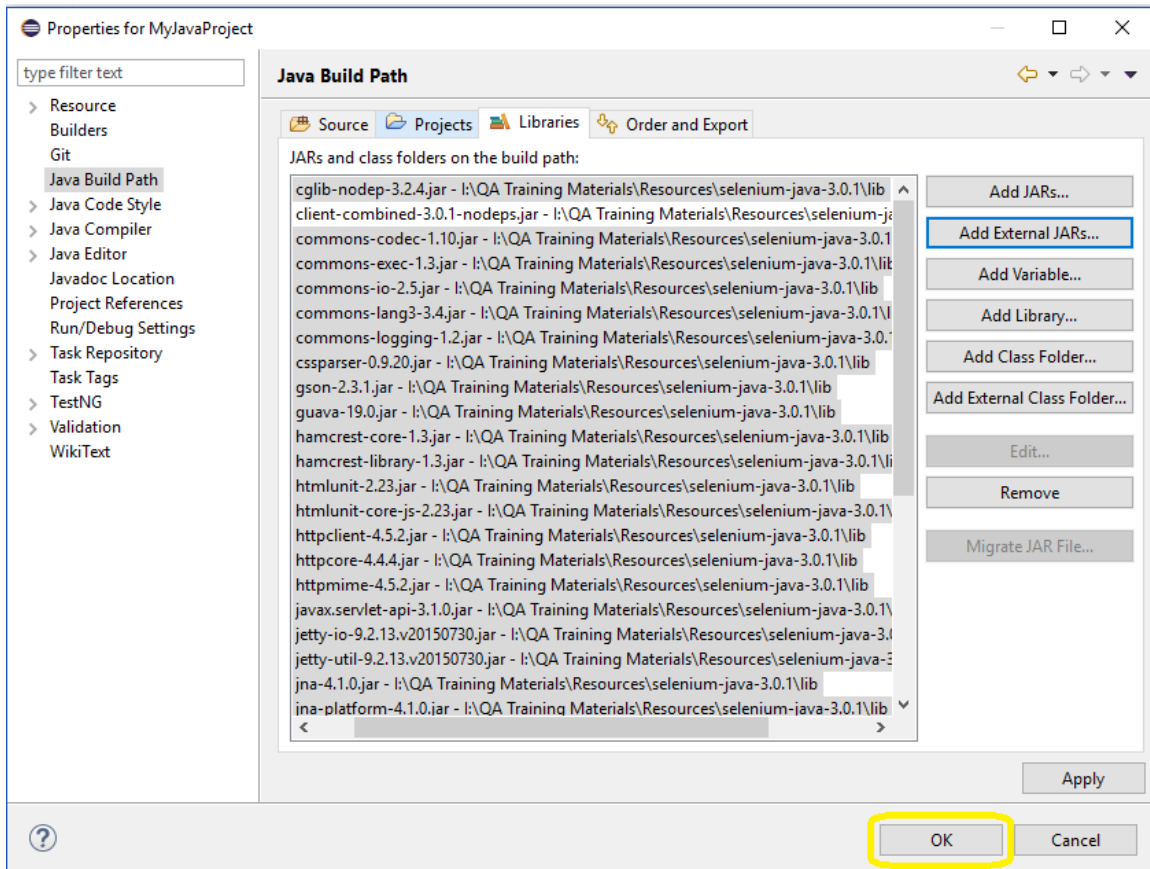
That's all about *configuration of WebDriver with eclipse*. Now we are ready to write our test script in eclipse and run it in WebDriver.