**SetUp**

1)      Windows (32-bit or 64-bit) with the latest system updates and at least 3 GB RAM

2)      Web browsers – please install recent versions of both Chrome and Firefox if possible:

a.      Google Chrome – <http://www.google.com/chrome/>

3)      Java Development Kit – JDK 8 Update 45

a.      Note: any recent **JDK 8** version will be fine.

b.      From <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>, please download the installer for your bitness of Windows (x86 for 32-bit, x64 for 64-bit), and run the installer with all default settings.

4)      Next, please set up one environment variable and modify another:

a.      Right click My Computer and choose Properties

b.      Click the Advanced tab

c.      Click the Environment Variables button

d.      In the bottom half of the dialog, click New to add a new System variable

                                                    i.     Variable name: JAVA\_HOME (this is case-sensitive)

                                                   ii.     Variable value: C:\Program Files\Java\jdk1.8.0\_45

(or adjust to the actual path where you installed the JDK – please double-check this path – probably best to copy and paste it)

                                                  iii.     Click OK after entering both of these

e.      In the bottom half of the dialog, find the Path environment variable, highlight it, and click Edit.

f.       Click in the Variable value: field and move your cursor all the way to the left (pressing Home on your keyboard should do this quickly for you)

g.      Prepend the following: **%JAVA\_HOME%\bin;**   [make sure you get all of this, including the trailing semi-colon, with no spaces]

h.      Click OK repeatedly (likely in 3 different dialogs) until all the dialogs close.

5)      Please test the Java installation and the environment variables:

a.      Open a Windows command prompt: open the Start menu, enter **cmd** in the search box, and press Enter.

b.      At the prompt, type **javac -version** and press Enter

c.      You should get a message indicating that the Java version is 1.8.0\_45 [or whatever version you have installed]

d.      If all is well, close the command prompt.

6)      Eclipse Java EE Developers

a.      Please note, Eclipse version **Mars**  or greater is **required** – earlier versions of Eclipse (4.3 Kepler, 4.2 Juno, etc.) will not support JDK 8.

b.      Download Eclipse Neon for Java EE developers for your operating system from http://www.eclipse.org/downloads/packages/eclipse-ide-java-ee-developers/neon2

i.     **Important Note:** Please make sure the bitness of Eclipse matches the bitness of your JDK.  If you mix 32-bit and 64-bit versions, Eclipse may fail to start.

c.      Unzip the file, open the resulting directory, and execute eclipse.exe.  Accept the default workspace, let it load (and confirm that it loads), then quit it.

**Note equivalent Eclipse M Neon based IDE’s are Acceptable. They must, however, support Java 1.8.\***

7)      Lab files

a.      you will be provided with lab setup files. Note this will include a chromeDriver exe to be placed on the student machines in order to run some tests towards the end of the class

Other required items for the classroom:

1)      Instructor seating position at the front of the room, facing the attendees.

2)      Whiteboard or flipchart and markers.

3)      Projector capable of at least 1024x768 resolution (1280x800 or higher preferred) – the projected image should be separate from the whiteboard or flipchart so that the instructor can project and draw at the same time.  If your projector requires anything other than a standard VGA  connector (e.g., DVI, HDMI, mini DisplayPort, etc.), please let us know so that our instructor has the appropriate adapter on hand.

4)      **Internet access for all attendees and the instructor is Vital. All our labs involve maven that require access to a maven artifactory.**