**Setup Selenium for Windows:**

1. **DOWNLOAD JAVA JDK** from http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html  
   I use java version 1.8.0\_152; Download Windows X64 for 64 bit machines
2. **SET UP JAVA SYSTEM VARIABLE**

Right mouse click on My Computer /Select Advanced System Settings/Select Environment Variables/Select New System Variable

Create JAVA\_HOME system variable.

Set it to path of your Java JDK C:\Program Files\Java\jdk1.8.0\_152

**NOTE:** **Be careful not to erase anything in the Path system variable.**

In the same environment variables screen, carefully edit the Path System Variable’s value and paste to the back of the value field the following:

;%JAVA\_HOME%\bin

Make sure to put a semicolon to end the last value and to append the new JAVA\_HOME value.

1. **DOWNLOAD Eclipse IDE for Java Developers or Java EE Developers**

Download 64 bit if you have a 64 bit machine

<https://eclipse.org/downloads/>

Download the VZFL project zip file from the clone or download link <https://github.com/angeetongCOMTECH/VZFL>

Unzip project and rename VZFL folder to FamilyLocator; Then create local folder C:\EclipseProjects and put the project in it

Open Eclipse and Select File Import>Existing Projects into Workspace>Select Next>

Browse to C:\EclipseProjects\FamilyLocator

Select Project> Then Continue Next and Finish

1. **INSTALL TESTNG**

Go to Eclipse Help menu, click “**Install** New Software”.

You will see a dialog window, click “Add” button

Type name “**TestNG**” and type “[http://beust.com/eclipse/”](https://cisco.jiveon.com/external-link.jspa?url=http%3A%2F%2Fbeust.com%2Feclipse%2F%E2%80%9D) as location.

Click Add. Give it a name TestNG and type in value as the url. Click OK.

Select it to install and Finish.

1. **SETUP SELENIUM AND CONFIGURE PROJECT BUILD PATH**

-Go to Eclipse and right mouse click on project>Select Build Path>Select Configure Build Path>Libraries>Shift Select all jars with red Xs and delete them;

Do not delete JRE system library and TestNG

Then Select Add External JARs>Select all the jars in C:\EclipseProjects\FamilyLocator\lib

1. **EDIT ALL MAC FOLDER PATHS TO WINDOWS PATHS**

**Remove // from Windows paths and Add // to Mac paths**

Under base folder > Edit TestBase.java and change to

//For Mac -comment out if using for windows

//public static String folderpath = "/Users/atong/Documents/EclipseProjects/FamilyLocator/screencaptures";

//For Windows -comment out if using for mac

public static String folderpath = "C:\\EclipseProjects\\FamilyLocator\\screencaptures";

//For Mac -comment out if using for windows

//System.setProperty("webdriver.gecko.driver","/Users/atong/Documents/EclipseProjects/FamilyLocator/lib/geckodriver/geckodriver");

//For Windows -comment out if using for mac

System.setProperty("webdriver.gecko.driver","C:\\EclipseProjects\\FamilyLocator\\lib\\geckodriver\\geckodriver.exe");

//For Mac -comment out if using for windows

//System.setProperty("webdriver.chrome.driver","/Users/atong/Documents/EclipseProjects/FamilyLocator/lib/chromedriver/chromedriver");

//For Windows -comment out if using for mac

System.setProperty("webdriver.chrome.driver","C:\\EclipseProjects\\FamilyLocator\\lib\\chromedriver\\chromedriver.exe");

Under common folder >Edit ExcelMethods.java and change to

//For Mac -comment out if using for windows

//private static final String FILE\_NAME = "/Users/atong/Documents/EclipseProjects/FamilyLocator/src/testdata/TestData.xlsx";

//For Windows -comment out if using for mac

private static final String FILE\_NAME "C:\\EclipseProjects\\FamilyLocator\\src\\testdata\\TestData.xlsx";

Edit logj4.properties and change to

log4j.appender.file.File=C:\EclipseProjects\FamilyLocator\log4jlogs\logs.log

Edit log4j2.xml and change to

<RollingFile name="RollingFile" filename=”C:\EclipseProjects\FamilyLocator\log4jlogs\logs.log"

filepattern="${logPath}/%d{YYYYMMddHHmmss}-fargo.log">

Under Locators folder > ReadProperties.java

For 1st method

*webLocatorProp = new Properties();*

FileInputStream in = **new** FileInputStream("C:\\EclipseProjects\\FamilyLocator\\src\\locators\\locators.properties");

//FileInputStream in = new FileInputStream("/Users/atong/Documents/EclipseProjects/FamilyLocator/src/locators/locators.properties");

For 2nd method

*globalProp*=**new** Properties();

FileInputStream in=**new** FileInputStream("C:\\EclipseProjects\\FamilyLocator\\src\\base\\global.properties");

//FileInputStream in=new FileInputStream("/Users/atong/Documents/EclipseProjects/FamilyLocator/src/base/global.properties");

Remember to save changes

1. **RUN SMOKE TESTS WITH TESTNG**

Go to Eclipse and right mouse click on TestnNG.xml>Select Run As>Select TestNG Suite

Let the scripts run by itself without locking the computer screen.

When it finishes the console will produce something like this:

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FamilyLocator Suite

Total tests run: 6, Failures: 0, Skips: 0

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1. **ACCESS TESTNG TEST RESULTS**

Go to C:\EclipseProjects\FamilyLocator\test-output folder>Open emailable-report.html to view pass/fail results

Any failed tests will have screenshots captured in C:\EclipseProjects\FamilyLocator\screencaptures.

**NOTE:** If you rerun a test or run another test, this index.html will be rewritten with the new results.

So if you want a copy of the old test results, please copy this folder to another location for your later use.

1. **RERUN INTERMITTENTLY FAILING TESTS**

Copy TestNG.xml and create a copy namedTestNGRerun.xml

Remove any tests you don’t want to rerun and save it. Leaving only the few tests to rerun.

Go to Eclipse>click on TestNGRerun.xml>Select Run As>Select TestNG Suite