

2016

Assignment (Week 1)

Common Issues and Solutions

Week 1 – Homework specific documentations

The most common issues that you may face during your homework implementations are listed herewith. And their solutions and/or workarounds are documented as well for references.



1)

Issue:

Firefox 43 version has issues with Selenium IDE installation

Possible Solutions / Workarounds:

The Selenium IDE 2.10 is compatible with only later versions of Firefox (>43). So it is recommended to use the Firefox latest version.

Workaround: Download the older version of IDE from previous versions here:

<http://release.seleniumhq.org/selenium-ide/>

2)

Issue:

While running Selenium program using Firefox, Selenium throws “**getChromeWindowDocumentWindow**” error.

Possible Solutions / Workarounds:

According to Selenium development team, this is an issue in Firefox, related to inner vs. outer windows [1] and that may solve if you upgrade firefox.

Workaround: Load the URL and maximize then instead of maximising the browser before loading URL

3)

Issue:

When you launch URL using Chrome, if its shows following error in console “**Starting ChromeDriver 2.21.371459 (36d3d07f660ff2bc1bf28a75d1cdabed0983e7c4) on port 25120 Only local connections are allowed.**”

Possible Solutions / Workarounds:

This is not a bug. It is ChromeDriver version details, you can ignore it.

4)

Issue:

Firefox is getting launched but URL is not getting loaded.

Possible Solutions / Workarounds:

This could be because of the version mismatch between Selenium and Firefox. For compatibility see the matrix:

Selenium Version	Firefox Version
2.53.0	Above Firefox 42 until 46

5)

Issue:

If Maven project shows error / Maven dependencies are not downloaded properly in the eclipse package explorer / having issue in Maven installation

Possible Solutions / Workarounds:

Maven Installation: Type 1

- In Eclipse Window -> Click **"Help"** Menu Bar-> In that **"Install New Software"**.
- In Install Window -> Click **"Add"** Button at top right Corner.
- At Pop Up:: Fill Name as **"M2Eclipse"** & Location as "<http://download.eclipse.org/technology/m2e/releases>"

Or

["http://download.eclipse.org/technology/m2e/milestones/1.0"](http://download.eclipse.org/technology/m2e/milestones/1.0)

Maven Installation: Type 2

- In Eclipse Window -> Click **"Help"** Menu Bar-> In that choose **"Eclipse Marketplace"**.
- Search by **"Maven"** and Click **"Install"** button at **"Maven Integration for Eclipse"**

After successful installation:

- In Eclipse Window -> Click **"Window"** Menu Bar -> In that Choose **"Preferences"**.
- In Preference Window -> **Maven** is listed at left panel in pop-up.

6)

Issue:

OpenTaps site: **"Server Unavailable"**

Possible Solutions / Workarounds:

OpenTaps application is managed in the cloud server of a customer and it is staged at Atlanta, USA. Generally, it is brought down everyday for about 30-60 minutes for maintenance. So, access the application after a while
(Note that the data created by you would have been wiped off as part of cleanup)

7)

Issue:

I could not right Click on IRCTC to inspect Elements. Why?

Possible Solutions / Workarounds:

In IRCTC website, right click is disabled, however you can use **F12 or Function + "F12"**.

8)

Issue:

In IRCTC Page, City Name could not be selected in residence address and company address sections.

Why?

If you notice the application, on entering Pincode the **STATE** is auto populated and hence **CITY** too; whereas the page does not load again. So, the **implicitly wait** is not applied as the page does not get reloaded; whereas the element values does load using JavaScript when the mouse is out of the pincode and generally simulated using key tab on the pincode field.

Possible Solutions / Workarounds:

When entering value in the pincode field, add the keyboard tab action as well. Sample code below:

```
driver.findElementById("pincodeidhere").sendKeys("600061",Keys.TAB);
```

And then add "**Thread.sleep(5000)**" so that the tab will load the javascript and sleep will wait for specified time. Technically, it is good to use WebDriverWait implementation, which you will learn later.

Note:- **Thread.sleep(5000)** will throw error, so Add Throws Interrupted Exception using mouse over on Thread.Sleep

9)

Issue:

In IRCTC Page, "**Copy Residence to office Address**" Radio button – Sometime its clicking correctly and it may not some other time. Why?

Possible Solutions / Workarounds:

Wait until page is fully loaded, for that we recommended using "**Thread.sleep (5000)**".

10)

Issue:

Exception: "**java.lang.NoClassDefFoundError**" and "**java.lang.ClassNotFoundException**"

"**NoClassDefFoundError**" in Java comes when Java Virtual Machine is not able to find a particular class at runtime which was available during compile time.

"**ClassNotFoundException**"

Possible Solutions / Workarounds:

Navigate to maven dependencies to check whether Class file (ex: - selenium-java-2.53.0 or selenium-java-2.52.0) is loaded completely

11)

Issue:

"**NoSuchElementException**" Occurred

Possible Solutions / Workarounds:

"NoSuchElementException" is thrown to indicate that there are no more elements in an enumeration. This extends **"RuntimeException"** class and thus, belongs to those exceptions that can be thrown during the operation of the Java Virtual Machine (JVM). It is an unchecked exception and thus, it does not need to be declared in a method's or a constructor's throws clause. Finally, the **"NoSuchElementException"** exists since the first version of Java.

"NoSuchElement" The occurrence of **"NoSuchElement"** exception is **runtime Error** and it happens, when the element is not present or loaded while running. To overcome this Issue, implicitly wait should be placed after launching the URL.

12)

Issue:

findElement vs. findElements

Possible Solutions / Workarounds:

findElement:

- findElement is use to locate single element and it return WebElement object of first occurrences element on web page.
- If element not found it will throw exception NoSuchElementException
Syntax: findElement(By by).

findElements:

- findElements is use to find multiple element on webpage, exp: as we need to count total number of row in table.
- It return List of WebElement object of all occurrences of element.
- If element not found it will return empty List of WebElement object.

13)

Issue:

"org.openqa.selenium.firefox.NotConnectedException"

Possible Solutions / Workarounds:

Your version of Selenium is probably not compatible with your version of Firefox. Try installing an older Firefox version.

1. Before installing and older version, go into Firefox and turn off the automatic update option.

Firefox --> Options --> Options --> Advanced --> Update --> Check for updates, but let me choose to install them

2. Go here and install and older version. <https://ftp.mozilla.org/pub/mozilla.org/firefox/releases/>
You don't have to uninstall Firefox, just install the version you want to install.

14)

Issue:

“**java.lang.IllegalStateException**” Exception in thread main “**java.lang.IllegalStateException:**” The driver executable does not exist:

Possible Solutions / Workarounds:

Usually, “**IllegalStateException**” is used to indicate that "a method has been invoked at an illegal or inappropriate time." In other words, the Java environment or Java application is not in an appropriate state for the requested operation.

- “**public IllegalStateException()**”
Constructs an “**IllegalStateException**” with no detail message. A detail message is a String that describes this particular exception.
- “**public IllegalStateException(String s)**”
Constructs an “**IllegalStateException**” with the specified detail message. A detail message is a String that describes this particular exception.

Parameters: s - the String that contains a detailed message

15)

Issue:

Exception in thread "main" **org.openqa.selenium.WebDriverException:** Target URL www.google.com is not well-formed.

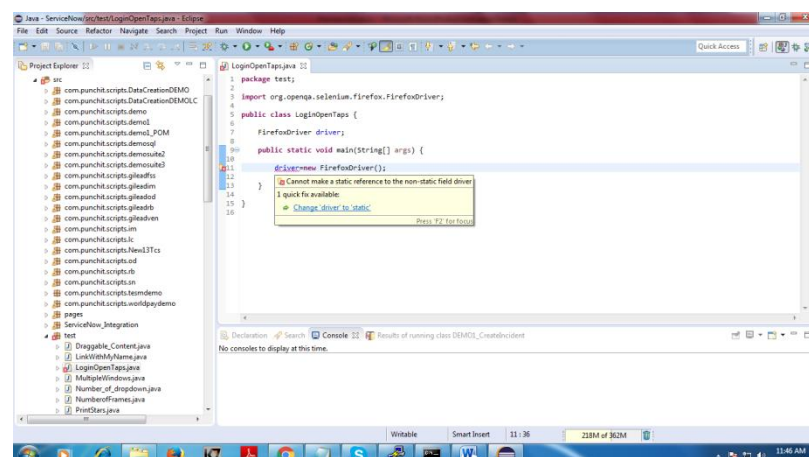
Possible Solutions / Workarounds:

The error is being thrown by webDriver’s get method that is navigating you to the url that you provided. Most probably your URL is missing a protocol. So a wild guess would be, that you are passing URL as www.google.com, but what you want to give is <http://www.google.com>

16)

Issue:

Compilation error for Firefox driver



Possible Solutions / Workarounds:

Need to declare driver object in static variable or should give driver initialize inside method.

- Static method should accept only static variables. You will know about these in later classes

17)

Issue

“org.openqa.selenium.firefox.NotConnectedException:” Unable to connect to host 127.0.0.1 on port 7055 after 45000 ms

Possible Solutions / Workarounds:

Your version of Selenium is probably not compatible with your version of Firefox. Try installing an older Firefox version.

1. Selenium 2.53 supports Firefox 45.

18)

Issue

Automate **“captcha”** using WebDriver? Is there any alternate method to automate Captcha using WebDriver?

Possible Solutions / Workarounds:

Selenium webdriver doesn't support **“captcha”** and Barcode.

It's one of the limitations of selenium. The alternate way to ask your developer turn off the **“captcha”** or change the **“captcha”** it should accept any of the given value for the given environment.

19)

Issue

Exception in thread main **“org.openqa.selenium.NoSuchElementException:”** no such element: Unable to locate element: {"method":"xpath", "selector":"/html/body/div [3]/p/button"}

Possible Solutions / Workarounds:

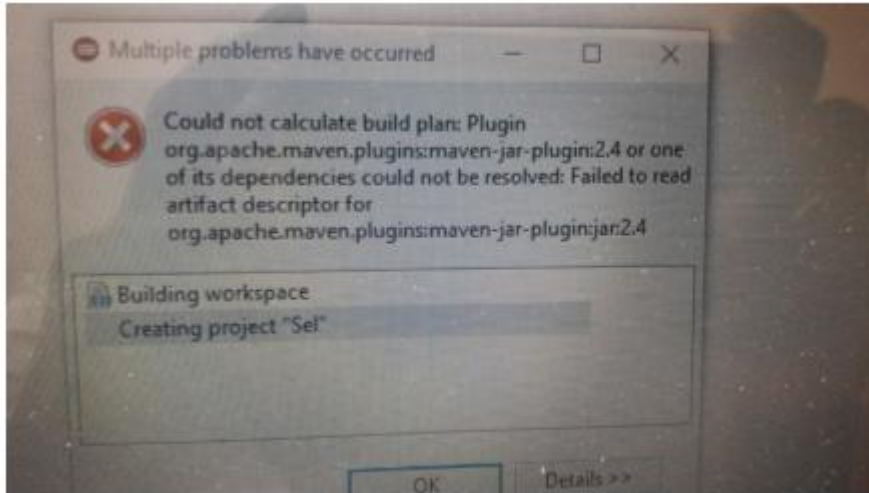
Basically when **“NoSuchElementException”** will occur

- The locator (id, name, className, etc) which we are given is incorrect so check for the locator given is right.
- If the locator is given correctly, then the problem may be residing at the loading page. Give **“thread.sleep”** before the line where exception occurs.

20)

Issue

While creating maven project, if you get the following error:



Possible Solutions / Workarounds:

Right-click on your **project(s)** --> **Maven** --> **Update Project...**

UPDATE: In latest versions of **Eclipse**: **Maven** > **Update Project**.

Make sure "Force **Update** of Snapshots/Releases" is checked.

And Click Apply button and then you will notice the plugins and dependency files will download and that solve the issues.