How to handle browser pop-up window using window handler?

What is Browser -window pop?

When we click a webelement,a new browser-window will be opened.

It is nothing but another tab/window,but get displayed as pop-up,

It has all the properties of a main window i.e.max,min,close.etc

Only after submitting the pop-up operation,control will go back to main window.

So,main window will be parent window.

Window pop-up will be child window

Set<String> wh=*driver*.getWindowHandles();

Iterator<String> it=wh.iterator();

String parentwindow=it.next();

String childwindow=it.next();

*driver*.switchTo().window(childwindow);

Thread.*sleep*(5);

String childtitle=*driver*.getTitle();

System.***out***.println(childtitle);

*driver*.close();

*driver*.switchTo().window(parentwindow);

steps:

1.use windowhandles method and it retuens set object with retuen type<string>

2.create obj ref for that set obj🡪wh

Set object does not have any index,so we cannot get the parent and child window id using index as we have done for list or array .

3.so,we need to use iterator

4.use iterator class with return type<string>🡪iterator<string>

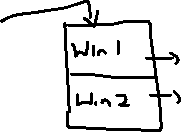
5.refer it to set obj iterator using 🡪Iterator<String> it=wh.iterator();

Now,the control will be pointing to iterator but not the location.

Iterator it



Parent window



Child window



To make the control from top to first element,we need to use it.next();//control comes to first window i.e.parent window

String parentwindow=it.next();

If we use once again it.next(),control comes to second window i.e.child window

String childwindow=it.next();

Now.to switch the control from parent to child window ,use

*driver*.switchTo().window(childwindow);

*driver*.close();//close the child window,do not use quit

//if used quit(),both windows will be closed.

*driver*.switchTo().window(parentwindow);//control returns back to parent window

different types of pop-up:

1.alert pop-up/java script popup//use alert class

2.file upload pop-up/browse button pop-up//donot click the button,pass location in sendkeys

3.browser window pop-up/advertisement pop-up//use windowhandler API,it returns set<string> object,use iterator for set object to get the window id

Object repository in selenium :

Two types:

Using .properties object repo file

Using xml file

Using .properties:

🡪it is important when we use any framework

1.create a properties file in project

Scr🡪new🡪other🡪general🡪file🡪name.properties (it shd have an extension of properties)

2.it is just a text file with .properties extension and we cannot write any java code in it.

3.used to define data/env.variables/any information to be stored.

How to store data in this file?

Using key,value pair.

Whatever is constant throughout the prog can be defined in this file.

e.g.browswer=chrome

URL=https://

How to use these properties in selenium proj?

String path="C:\\jansi\_javafiles\_2\\Seleniumpractice\\src\\Basics\\config.properties";

FileInputStream ip=**new** FileInputStream(path);

Properties prop=**new** Properties();

prop.load(ip);

FileInputStream🡪to create a stream b/w java code and input file

Properties prop=**new** Properties();//prop class to load .properties file

prop.load(ip);🡪to load i/p file using prop class ref obj

how to get the values from the properties file?

In properties file:key ,value pair be like

Name=jansi

url: http://www.popuptest.com/goodpopups.html

using getProperty method,we can pass the key name

String name=prop.getProperty("name");

System.***out***.println(name)

How to comment a line in properties file?

If we need to use some property later,don’t delete,instead comment it using #

#name=jansi

Using xml object repo:

Stored data in html format

Headless browser testing using HTML unit driver

Webdriver driver=new htmlunitdriver();

It is not available in selenium 3.0 version,so we need to download JAR file

Advantages:

1. Without launching the browser,we can run the testcases.

2. fast execution of test cases,since browser is not launched

Diadv:

It is not suitable for user actions,where we use actions class

e.g.double click,mouseover,drag and drop

we can use for any small script,which has to be tested everytime.

It is also known as ghost driver/headless browser.

Many headless browsers are available in the market like:

1.HTML unit driver-with java

2.Phantom JS-for javascript

It can be used for smoke testing point of view

Smoke testing: used to test critical functionalities after system build before doing any functional testing.

Critical func: whether browser is launched

So that we don’t waste time in performing functional test.