\*parsing data from response can be done in two ways:

1.mapping response to class through gson mapper and then getting data from class object and then asserting expected values from class mapper with actual value

2.another way is,getting response and directly assrting through grrovy script using hamcrest matchers.

3.we can also get response as string and extract values form that

Adv of using assertion form class object :

1.we can extract any value easily

2.we can use soft assertion

Points:

In base class:

1. Use constructor to get properties from .properties file,so that we need not call the method in all child class.since it is written under constructor,it automatically initializes when class is called .in child class,callk super() within child class constructor to call base class super constructor.
2. In base class,declare all the variables as public static variable name,bcz,static 🡪value cannot be changed in child class,and always picks only this value in all child classes even if some other value is assigned to particular var in child class

Action class:

For all keyboard or mouse actions: mouse over,dragg and drop

Ve to use build().perform() for all actions class

Wait in selenium:

Pageloadtimeout:waits for page to be loaded completely.

If we give 5 s,it waits for 5s to be loaded and then executes next stmt,even if it executes within 2s,it ignores rest of the time.

Implicitly wait: waits for all web elemenets to be loaded completely.similar to pageloadtimeout

Explicitly wait:waits until a particular webelement is loaed or meets any specific condition is met Using Webdriverwait method

Screenshot:

To use fileUtils.copy,we have to add apache.commons.io dependency

Screenshot in my local supports oly png format

Object repository in selenium:

Common storage Location of all objects.in selenium,we can also store locators here

Whatever is constant thru out the project can be defined here.

Adv:if any value changes,we can just change oly in obj.repository,and no need to change in all test caeses whereever we had used this variable.

1..properties file object repo:

Stores data in key value format

We can comment any particular var using #.

2.xml file object repo:

stores data in html format

headless browser:

browser is not launched ,but still runs the test cases and fetches value from browser.

Fast execution of test cases.it does not need a GUI.

Used for smoke testing🡪testing only critical func.before doing functional testing

for javascript🡪panthom.js

for java🡪

two methods:

1.using htmlunitdriver class

2.using chromeoptions

javascriptexecutor:

it is an interface that executes any javascript thru selenium webdriver

when certain webdriver locators do not work,we can use javascript to do the actions.for e.g

entering text in searchbox,clicking button,getting text of an element

some other functions that cannot be done by webdriver methods are:

scrooling until an element is viewable,zoom in,change background color,flashing/highlighting

launch new webpage,generate alert window

what is DOM:

Document Object Model.

Document is a webpage.DOM used to represent a document(/webpage) in the form of nodes and objects as html source.

Document can be modified using javascript languages .

Isdisplayed:whether a element is displayed.applicable for all webelements

Isenabled:whether a element is enabled.used mostly with buttons(sign up,submit) where it may not be enabled until user agrees to terms and conditions

Isselected: applicable for dropdown,radiobutton,checkbox whether a value is selected or not

Dynamic web table

Ref site:

<http://learnselenium.techcanvass.com/handling-a-web-table-in-selenium-3-0/>

dynamic web table: certain tables are dynamic which means no.of rows and columns change as per the filter or search.in that case,we do not know the index of a particular value.so,

1.identify table-xpath of table

2.get no.of rows and cols.

3.itearte rows and cols and get all cell values or put some condn in if stamt and get a particular cell value alone.

Dynamic web search:

In goggle or some other search box,when we enter something it gives us a list of suggestion.it is very dynamic i.e.suggestions also differ and position also changes.in that case,

Get all the suggestions in list box thru navigating using indexes to the text of that particular list element and then iterate list to print all values or give some condition to filet and then click that particular elemeny alone.

Bootstrap dropdown:

It is a special dropdown,with button type.does not have select tag in it.so we cannot use select class to click an element.

So,click the button,get all the items in the list as an list <webelement> using findelements

And then iterate

\*\*Broken links and images:

Testng:

Adv:

1.sequencing ->priority keyword

2.grouping🡪groups keyword

3.dependency🡪dependsonmethod keyword

4.annotations:🡪sequence is:

@beforesuite,@breforetest,@beforeclass,@beforemethod,@test,@aftermethod,@afterclass,@aftertest,@aftersuite

[5.@dataprovider](mailto:5.@dataprovider):

Very imp feature,

\*it is a method which gets data from excel and stores in array or hashmap or list etc.

\*data provider automatically executes each row of test data in the array or list by mapping with the input parameters that are given in test methods ,so that we need not pass the parameters for each test row.

Best site to learn data provider:

[https://automationtalks.com](https://automationtalks.com/)

Java tutorials:

Java collections:

Map and hashmap:

Map is an interface,hashmap is a class that implements map interface

Read data from excel into hashmap:

1.when our excel file is in external location use,

File file=new File(path); and then use

FileInputStream ip=new FileInputStream(file);