How to handle a dynamic web table in selenium ?

It can be done in two ways.

1.using for loop and iterating🡪lengthy way

2.using custom x path🡪simple way

Method 1:

1.Iterate row and column and get cell value

2.use for loop

3.get total rows and iterate table

If condition(string matches),then select the value

Disadv:

\*performance will be very low.

Bcz,if our element is located in 500 th row,for loop runs from 1 to 500 and then,returns the value

Method 2:

Adv:

Very efficient and dynamic,since we are not using any for loop

No full iteration of table,so code will be optimized.

Steps:

1.using custom xpath.

2.Using parent and preceeding sibling tags

3.single line code

Check the xpath:

To check whether the xpath is correct or not,ctrl+f🡪type xpath and it will highlight the webelement

How to handle dynamic google search using dynamic xpath:

In google,when we search for something,it gives many suggestions and these no.of suggestions and position also changes dynamically.

So,we need to take custom xpath for the suggestion.

e.g.search🡪selenium



5 suggestions

1.selenium tutorial

2.selenium webdriver

3.selenium ide

4.selenium rich foods

5.selenium download

And here,we need to click” selenium ide” .this position can change anytime.so hoe to select this one

Concept:

1.Get all the suggestions in a list box

2.iterate using for loop

3.check for the condition whether the suggestion =”selenium ide”,if yes,click the item.

How to get the suggestions in a listbox:

1.Since,each suggestion is a webelement and as we have multiple elements,use findelements and get it a list<webelement>

2.the “selenium ide”is available inside child <div>tag of a parent <li>tag,so we need to use descendant

driver.get("https://www.google.ca/");

driver.manage().window().maximize();

//search selenium in google

driver.findElement(By.*name*("q")).sendKeys("selenium");

//get all the <li>tags in list

List<WebElement> lst=driver.findElements(By.*xpath*("//\*[@role='listbox']/li//descendant::div[@class='sbl1']"));

System.***out***.println("no.of suggestions:"+lst.size());

**for**(**int** i=0;i<lst.size();i++)

{

String suggestions=lst.get(i).getText();

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

**if**(suggestions.equals("selenium download"))

{

lst.get(i).click();

**break**;

}

"//\*[@role='listbox'🡪selects the listbox that list out all the suggestions

//\*[@role='listbox']/li🡪gets all the <li>tags inside listbox

//\*[@role='listbox']/li//descendant::div[@class='sbl1']"🡪since <li>tag contains multiple descendant <div>tags,first we need to identify which <div>tag contains the “selenium ide”suggestion,and we need to get xpath for that< div>

How to handle calender:

We can select date in a datepicker using javascriptexecutor