Actions :

How to MouseOver on object with selenium ?

Performing Mouse and keyboard Interactions with selenium

Context click on element

Double click on element

Drag and dropping the element

Frames :

What are frames ?

How to Identify frames in application ?

How to handle frames ?

Best practises when working with frames application

86. Handling Ajax/Mouse Interactions

What is action class in selenium webdriver - Action class is specifically designed to handle mouseover and keyboard interactions with the user.

this Action class provides specific methods to handle that in an application, which we generally do by mouse and keyboard.

I need to just move my mouse and to specific item that says mouseover

So all kind of mouse, keyboard and user gestures can be done, can be automated.

The help of actions, class in selenium webdriver.

I'm just creating an actions class with object called (a).  in this actions class argument, you need to pass the driver object. so that driver now will get the capabilities of action class methods. ( Actions a = new Actions(driver); )

So after performing your action method by saying move to eliment, you need to build this entire action.

.build – means the step is ready to execute,but it will not execute.

If it want to executed then perform then you need to say perform this build (.perform())

Buils and perform these are two methods

87. Actions class-real time example

now build one composite action.

So this actually moves to specific element.

this argument takes web driver

driver.findelement(by.cssselector(test()=john).build().perform();

actually define that in a variable

WebElement move = driver.findelement(by.cssselector(test()=john)

Note : If we hold the shift button and write the letters in our application, automatically they will be in capital letters.

first of all, we are moving to that element and then clicking and then we are actually holding our key down. And after holding down I'm sending the information saying hello

I'll enter in small letters only, but it'll take the caps.

Whenever we declare something with actions then you say dot build.

And after performing will, we need to execute it. .perform()

how do you select this entire text or string(hello)? – just double click ( doubleclick() )

 after moving here I want to give a right click so that this inspect window will display

how do we do in automation -- with the help of context click you can actually right click on that specific element.

WebDriver driver =**new** ChromeDriver();

//mouseover

driver.get("https://www.amazon.com/");

Actions a = **new** Actions(driver);

//a.moveToElement(driver.findElement(By.id("nav-link-accountList"))).build().perform();

//entire we define created variable ( move )

WebElement move = driver.findElement(By.*id*("nav-link-accountList"));

//search field id - hold on shift icon capital letter - select the entire key we use double click

a.moveToElement(driver.findElement(By.*id*("twotabsearchtextbox"))).click().keyDown(Keys.***SHIFT***).sendKeys("hello").doubleClick().build().perform();

//context click you can actually right click on that specific element - inspect window pop

//a.moveToElement(move).contextClick().build().perform();

88. Window Handle concepts-real time example

how to handle child windows and how to switch from parent to child windows ?

In Selenium terminology, another tab or another separate window, both are treated as same. It'll still treat it as a new window only.

let's write an automation script to capture this email ID from the child window

and paste it in your parent window username field.

 Note : when you are writing CSS for class, if you see spaces, make sure you replace it with the dot

If you want to know the Id of the windows you need to use the iterator method

--- (it) is the object in the code

89. Live Example on working with Child windows

driver.get("https://rahulshettyacademy.com/loginpagePractise/");

driver.findElement(By.*cssSelector*(".blinkingText")).click();

Set<String> windows = driver.getWindowHandles(); //[parentid,childid]

//If you want to know the Id of the windows you need to use the iterator method -- it is object

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

String parentId = it.next();

String childId = it.next();

driver.switchTo().window(childId);

System.***out***.println(driver.findElement(By.*cssSelector*(".im-para.red")).getText());

driver.findElement(By.*cssSelector*(".im-para.red")).getText();

String emailId = driver.findElement(By.*cssSelector*(".im-para.red")).getText().split("at")[1].trim().split(" ")[0];

driver.switchTo().window(parentId);

driver.findElement(By.*id*("username")).sendKeys(emailId);

91. How to handle Frames?

frames are a component which are hosted on these webpages.

Whenever there is such kind of frames in the web browser, like placing the containers in a box, Selenium cannot identify the frames.

here you can switch either by its index, or ID, or webelement(classname). So in using this three, one of these three methods, you can switch to this frame, right.

92. Frames Techniques-real time example

once you are done with that work, if you want to perform any other

action outside of this frame, OK, that driver will not switch it automatically,

we need to add in the last line of frame ounce your work is done in the frame

driver.switchto().defaultcontent();

WebDriver driver =**new** ChromeDriver();

driver.get("https://jqueryui.com/droppable/");

//driver.switchTo().frame(0); // based on index

//System.out.println(driver.findElements(By.tagName("iframe")).size());

driver.switchTo().frame(driver.findElement(By.*cssSelector*("iframe[class='demo-frame']")));

driver.findElement(By.*id*("draggable")).click();

Actions a = **new** Actions(driver);

WebElement source = driver.findElement(By.*id*("draggable"));

WebElement target = driver.findElement(By.*id*("droppable"));

a.dragAndDrop(source, target).build().perform();

driver.switchTo().defaultContent();

assignment 4

public class A1 {

public static void main(String[] args) {

System.setProperty("webdriver.chrome.driver", "C://work//chromedriver.exe");

WebDriver driver=new ChromeDriver();

driver.get("http://the-internet.herokuapp.com/");

driver.findElement(By.linkText("Multiple Windows")).click();

driver.findElement(By.cssSelector("a[href\*='windows']")).click();

Set<String> abc=driver.getWindowHandles();

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

String parentWindow=it.next();

driver.switchTo().window(it.next());

System.out.println(driver.findElement(By.xpath("//div/h3")).getText());

driver.switchTo().window(parentWindow);

System.out.println(driver.findElement(By.xpath("//div[@id='content']/div/h3")).getText());

}

}

Assignment 5 frame assignment

WebDriver driver =**new** ChromeDriver();

driver.get("https://the-internet.herokuapp.com/");

driver.findElement(By.*cssSelector*("a[href='/nested\_frames']")).click();

driver.switchTo().frame("frame-top");

driver.switchTo().frame("frame-middle");

System.***out***.println(driver.findElement(By.*id*("content")).getText());