123. Introduction to Relative Locators - Part 1

124. Relative locators with real time examples

125. code Download

Selennium Relative Locators | Friendly Locators

* above(): Element located above with respect to the specified element.
* Below(): Element located below with respect to the specified element.
* toLeftOf(): Element located to the left of specified element.
* toRightOf(): Element located to the right of the specified element.

Syntax:

driver.findElement(with(TagName(“xxx”).above(WebElement))

So I can write the code that, first of all, find this edit box, which is unique and then above Go and find label.( Name )

If we use relative locator in eclipse fist you need to import the package

By default, Eclipse will not give you auto suggestion for this package because this package is a static one.

So no static packets can be auto suggested when you try to coordinate the eclipse.

step one, make sure you import this package,

( **import** **static** org.openqa.selenium.support.locators.RelativeLocator.\*; ) – after import this pacakage only ( with ) should accept

Step two, that you need to remember that you can relatively find only based upon tagNames, and then, original locator, first, storage into one variable. And you can use it .

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** **static** org.openqa.selenium.support.locators.RelativeLocator.\*;

**public** **class** RelativeLoc {

**public** **static** **void** main(String[] args) {

System.setProperty("webdriver.chrome.driver", "/Users/rahulshetty/Documents/chromedriver");

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

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

WebElement nameEditBox =driver.findElement(By.cssSelector("[name='name']"));

System.**out**.println(driver.findElement(with(By.tagName("label")).above(nameEditBox)).getText());

WebElement dateofBirth = driver.findElement(By.cssSelector("[for='dateofBirth']"));

driver.findElement(with(By.tagName("input")).below(dateofBirth)).click();

WebElement iceCreamLabel =driver.findElement(By.xpath("//label[text()='Check me out if you Love IceCreams!']"));

driver.findElement(with(By.tagName("input")).toLeftOf(iceCreamLabel)).click();

WebElement rdb = driver.findElement(By.id("inlineRadio1"));

System.**out**.println(driver.findElement(with(By.tagName("label")).toRightOf(rdb)).getText());

}

}

126. Invoking Multiple Windows/Tabs from Selenium ( this feature comes from version 4.0 )

Scenario:

Navigate to [ProtoCommerce (rahulshettyacademy.com)](https://rahulshettyacademy.com/angularpractice/)

Fill the “Name” field with the first course name available at

https://rahulshettyacademy.com/

there is a method called in selenium.Get the window handles.

When you call this method selenium will just see how many windows are currently opened by selenium. So there are two windows open.

So all those two window ideas will now extract them.

When you call this method and all ideas will be stored in set data structure, you'll see that return type of this method is nothing. So set will have set of strings.

If you want to identify these two items, you can use one method called iterator.

What you have to remember here is switch.newwindow()

And switching between parent and child using driver scope can be done with these steps.

127. Taking WebElement Partial Screenshot with Selenium

File file=name.getScreenshotAs(Output.Type.FILE);

FileUtils.CopyFile(file, new File(“logo.png”);

To use file utils you need to import one package – (apache commons fileutils maven) – search this in goggle and download the jar file and in eclipse – build path apply this jar file.

128. -Capturing Height and Width of WebElement for UX validation

this specific get rectangular method is exposing all these subsequent child methods like ( dimensions,height,width

129. code download

import java.io.File;

import java.io.IOException;

import java.util.Iterator;

import java.util.Set;

import org.apache.commons.io.FileUtils;

import org.openqa.selenium.By;

import org.openqa.selenium.OutputType;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.WindowType;

import org.openqa.selenium.chrome.ChromeDriver;

public class NewWindow {

public static void main(String[] args) throws IOException {

// TODO Auto-generated method stub

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

WebDriver driver=new ChromeDriver();

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

//Switching Window

driver.switchTo().newWindow(WindowType.WINDOW);

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

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

String parentWindowId = it.next();

String childWindow =it.next();

driver.switchTo().window(childWindow);

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

String courseName = driver.findElements(By.cssSelector("a[href\*='https://courses.rahulshettyacademy.com/p']"))

.get(1).getText();

driver.switchTo().window(parentWindowId);

WebElement name=driver.findElement(By.cssSelector("[name='name']"));

name.sendKeys(courseName);

//Screenshot

File file=name.getScreenshotAs(OutputType.FILE);

FileUtils.copyFile(file, new File("logo.png"));

//driver.quit();

//GEt Height & Width

System.out.println(name.getRect().getDimension().getHeight());

System.out.println(name.getRect().getDimension().getWidth());

}

}