Appium

Appium desired capabilities:

import java.io.File;

import java.net.MalformedURLException;

import java.net.URL;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.remote.DesiredCapabilities;

import io.appium.java\_client.android.AndroidDriver;

import io.appium.java\_client.android.AndroidElement;

import io.appium.java\_client.remote.MobileCapabilityType;

public class base {

public static AndroidDriver<AndroidElement> capabilities() throws MalformedURLException

{

AndroidDriver<AndroidElement> driver;

// TODO Auto-generated method stub

File appDir = new File("src");

File app = new File(appDir, "ApiDemos-debug.apk");

DesiredCapabilities capabilities = new DesiredCapabilities();

capabilities.setCapability(MobileCapabilityType.DEVICE\_NAME, "Rahulemulator");

capabilities.setCapability(MobileCapabilityType.APP, app.getAbsolutePath());

driver = new AndroidDriver<>(new URL("http://127.0.0.1:4723/wd/hub"), capabilities);

return driver;

}}

Automating app UI using XPaths and text attributes

public void test() throws MalformedURLException {

File appDir = new File("src");

File app = new File(appDir, "bookMyShow-ucb.apk");

DesiredCapabilities cap=new DesiredCapabilities();

cap.setCapability(MobileCapabilityType.PLATFORM\_NAME,MobilePlatform.ANDROID);

cap.setCapability(MobileCapabilityType.DEVICE\_NAME, "Android emulator");

cap.setCapability(MobileCapabilityType.NEW\_COMMAND\_TIMEOUT, "100");

cap.setCapability(MobileCapabilityType.APP, app.getAbsolutePath());

AndroidDriver driver=new AndroidDriver(new URL("http://127.0.0.1:4723/wd/hub"),cap );

//driver.findElementById("com.bt.bms:id/btnLogin").click();

driver.findElementById("com.bt.bms:id/btnSignUp").click();

int s=driver.findElements(By.className("android.widget.EditText")).size();

System.out.println(s);

List<WebElement>a=driver.findElements(By.className("android.widget.EditText"));

a.get(0).sendKeys("Appium");

a.get(1).sendKeys("Mobile");

a.get(2).sendKeys("appium@training");

a.get(3).sendKeys("password");

driver.findElementById("com.bt.bms:id/action\_icon").click();

Appium APIs for UI interaction with id’s and class name

public void test() throws MalformedURLException {

File appDir = new File("src");

File app = new File(appDir, "ApiDemos-debug.apk");

DesiredCapabilities cap=new DesiredCapabilities();

cap.setCapability(MobileCapabilityType.PLATFORM\_NAME,MobilePlatform.ANDROID);

cap.setCapability(MobileCapabilityType.DEVICE\_NAME, "Android Emulator");

cap.setCapability(MobileCapabilityType.NEW\_COMMAND\_TIMEOUT, "20");

cap.setCapability(MobileCapabilityType.APP, app.getAbsolutePath());

AndroidDriver driver=new AndroidDriver(new URL("http://127.0.0.1:4723/wd/hub"),cap );

driver.scrollTo("Preference").click();

List <WebElement>b=driver.findElements(By.id("android:id/text1"));

System.out.println(b.get(8).getText());

Handling multiple similar objects of Apps with index

import java.io.File;

import java.net.MalformedURLException;

import java.net.URL;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.remote.DesiredCapabilities;

import io.appium.java\_client.android.AndroidDriver;

import io.appium.java\_client.android.AndroidElement;

import io.appium.java\_client.remote.MobileCapabilityType;

public class basics extends base{

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

// TODO Auto-generated method stub

AndroidDriver<AndroidElement> driver=capabilities();

driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);

//xpath id className, androidUIautomator

/\* xpath Syntax

\* //tagName[@attribute='value']

\*

\*/

driver.findElementByXPath("//android.widget.TextView[@text='Preference']").click();

driver.findElementByXPath("//android.widget.TextView[@text='3. Preference dependencies']").click();

driver.findElementById("android:id/checkbox").click();

driver.findElementByXPath("(//android.widget.RelativeLayout)[2]").click();

driver.findElementByClassName("android.widget.EditText").sendKeys("hello");

driver.findElementsByClassName("android.widget.Button").get(1).click()

}

}

Touch action in appium

public void test() throws MalformedURLException, InterruptedException {

File appDir = new File("src");

File app = new File(appDir, "ApiDemos-debug.apk");

DesiredCapabilities cap=new DesiredCapabilities();

cap.setCapability(MobileCapabilityType.PLATFORM\_NAME,MobilePlatform.ANDROID);

cap.setCapability(MobileCapabilityType.DEVICE\_NAME, "Android Emulator");

cap.setCapability(MobileCapabilityType.NEW\_COMMAND\_TIMEOUT, "200");

cap.setCapability(MobileCapabilityType.APP, app.getAbsolutePath());

AndroidDriver driver=new AndroidDriver(new URL("http://127.0.0.1:4723/wd/hub"),cap );

System.out.println(driver.isLocked());//LOcked condition

System.out.println(driver.getContext());

List<WebElement> abc=driver.findElements(By.className("android.widget.TextView"));

TouchAction t=new TouchAction(driver);

t.tap(abc.get(2)).perform();

//TouchAction t1=new TouchAction(driver).longPress(el);

//driver.installApp("");

driver.closeApp();

//driver.currentActivity();

//driver.context(name)

//driver.zoom(el);

Tapping and long press

import java.net.MalformedURLException;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;

import org.openqa.selenium.interactions.touch.TouchActions;

import io.appium.java\_client.TouchAction;

import io.appium.java\_client.android.AndroidDriver;

import io.appium.java\_client.android.AndroidElement;

public class gestures extends base {

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

// TODO Auto-generated method stub

AndroidDriver<AndroidElement> driver=capabilities();

driver.findElementByXPath("//android.widget.TextView[@text='Views']").click();

//Tap

TouchAction t =new TouchAction(driver);

t.tap(driver.findElementByXPath("//android.widget.TextView[@text='Expandable Lists']")).perform();

driver.findElementByXPath("//android.widget.TextView[@text='1. Custom Adapter']").click();

t.press(driver.findElement(By.xpath("//android.widget.TextView[@text='People Names']"))).waitAction(3000).release().perform();

//t.press(driver.findElementByXPath("//android.widget.TextView[@text='People Names']")).waitAction(3000).release().perform();

System.out.println(driver.findElementById("android:id/alertTitle").getText());

//

// Tap, Press and release,scroll,Swipe, drap and drop

}

}

Automate Scrolling

import java.net.MalformedURLException;

import java.util.concurrent.TimeUnit;

import io.appium.java\_client.android.AndroidDriver;

import io.appium.java\_client.android.AndroidElement;

public class scrollingDemo extends base{

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

// TODO Auto-generated method stub

AndroidDriver<AndroidElement> driver=capabilities();

driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);

driver.findElementByXPath("//android.widget.TextView[@text='Views']").click();

driver.findElementByAndroidUIAutomator("new UiScrollable(new UiSelector()).scrollIntoView(text(\"WebView\"));");

}

}

Drang and drop on native app with appium

import java.net.MalformedURLException;

import java.util.concurrent.TimeUnit;

import io.appium.java\_client.TouchAction;

import io.appium.java\_client.android.AndroidDriver;

import io.appium.java\_client.android.AndroidElement;

public class DragDropdemo extends base{

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

// TODO Auto-generated method stub

AndroidDriver<AndroidElement> driver=capabilities();

driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);

driver.findElementByXPath("//android.widget.TextView[@text='Views']").click();

driver.findElementByXPath("//android.widget.TextView[@text='Drag and Drop']").click();

TouchAction t = new TouchAction(driver);

t.longPress(driver.findElementsByClassName("android.view.View").get(0)).moveTo(driver.findElementsByClassName("android.view.View").get(1)).release().perform();

}

Hybrid app handling

import io.appium.java\_client.android.AndroidDriver;

import io.appium.java\_client.remote.MobileCapabilityType;

import io.appium.java\_client.remote.MobilePlatform;

import java.io.File;

import java.net.MalformedURLException;

import java.net.URL;

import java.util.Set;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;

import org.openqa.selenium.remote.DesiredCapabilities;

public class Hybridapps {

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

// TODO Auto-generated method stub

File appDir = new File("src");

File app = new File(appDir, "testApp.apk");

DesiredCapabilities cap=new DesiredCapabilities();

cap.setCapability(MobileCapabilityType.PLATFORM\_NAME,MobilePlatform.ANDROID);

cap.setCapability(MobileCapabilityType.DEVICE\_NAME, "Android device");

cap.setCapability(MobileCapabilityType.NEW\_COMMAND\_TIMEOUT, "100");

cap.setCapability(MobileCapabilityType.APP, app.getAbsolutePath());

AndroidDriver driver=new AndroidDriver(new URL("http://127.0.0.1:4723/wd/hub"),cap );

driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

System.out.println(driver.getContext());

driver.findElement(By.id("com.example.testapp:id/urlField")).sendKeys("http://google.com");

driver.findElement(By.id("com.example.testapp:id/goButton")).click();

Set<String> s=driver.getContextHandles();

for(String handle : s)

{

System.out.println(handle);

}

driver.context("WEBVIEW\_com.example.testapp");

//To enable WebView debugging, call the static method setWebContentsDebuggingEnabled on the WebView class.

driver.findElement(By.name("q")).sendKeys("Handling hybrid app");

//

driver.context("NATIVE\_APP");

//

//1 native 1 Web

//driver.context(name)

}

}

Selenium

-- how to save screen shots using selenium webdriver

import java.io.File;

import org.apache.commons.io.FileUtils;

import org.openqa.selenium.By;

import org.openqa.selenium.OutputType;

import org.openqa.selenium.TakesScreenshot;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

import org.testng.annotations.Test;

  public class takeScreenShotExample{

public WebDriver driver;

public void openBrowser() throws Exception {

driver = new FirefoxDriver();

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

driver.get("[http://www.google.com"](http://www.google.com/));

  try{

driver.findElement(By.id("testing")).sendKeys("test");                                 }

catch (Exception e){

System.out.println("I'm in exception");

getscreenshot();

    }

}

  public void getscreenshot() throws Exception       {

     File scrFile = ((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE FileUtils.copyFile(scrFile, new File("D:\\screenshot.png"));

}

}

-- how to handle multiple windows in selenium webdriver

public class MultiWindowHandle {

WebDriver driver;

public void setup() throws Exception {

driver=new FirefoxDriver();

String URL="https://www.abc.co.in/";

driver.get(URL);

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

}

public void test() throws Exception {

// Opening Calender

driver.findElement(By.xpath("//img[@alt='Calender']")).click();

// Storing parent window reference into a String Variable

String Parent\_Window = driver.getWindowHandle();

  // Switching from parent window to child window

for (String Child\_Window : driver.getWindowHandles())

{

driver.switchTo().window(Child\_Window);

// Performing actions on child window

driver.findElement(By.id("calendar\_month\_txt")).click();

List  Months=driver.findElements(By.xpath("//div[@id='monthDropDown']//div"));

int Months\_Size=Months.size();

System.out.println("Month size is:"+Months\_Size);

Months.get(1).click();

driver.findElement(By.xpath("//\*[@id='calendarDiv']/div/table/tbody/tr/td[contains(text(),'16')]")).click();

}

//Switching back to Parent Window

driver.switchTo().window(Parent\_Window);

//Performing some actions on Parent Window

driver.findElement(By.className("btn\_style")).click();

}

  public void close() {

  driver.quit();

  }

}

-- how to lanuch webpage using chrome driver

import org.junit.After;  
import org.junit.Before;  
import org.junit.Test;  
import org.openqa.selenium.By;  
import org.openqa.selenium.WebDriver;  
import org.openqa.selenium.chrome.ChromeDriver;  
public class Chrome {  
WebDriver driver;  
public void launchChrome()  
{  
System.setProperty("webdriver.chrome.driver", "E:\\DD MISHRA\\workspace\\chromedriver\_win\_26.0.1383.0\\chromedriver.exe");  
driver = new ChromeDriver();  
}

public void testChrome()  
{  
driver.get("http://www.google.co.in");  
driver.findElement(By.id("gbqfq")).sendKeys("Selenium");  
}  
public void kill()  
{  
driver.close();  
driver.quit();  
}  
}

-- what is desired capabilities in selenium webdriver

importorg.openqa.selenium.WebDriver;

importorg.openqa.selenium.ie.InternetExplorerDriver;

importorg.openqa.selenium.remote.DesiredCapabilities;

public class IEtestforDesiredCapabilities {

public static void main(String[] args) {

DesiredCapabilities capabilities = DesiredCapabilities.internetExplorer();

capabilities.setCapability(CapabilityType.BROWSER\_NAME, "IE");

capabilities.setCapability(InternetExplorerDriver.

INTRODUCE\_FLAKINESS\_BY\_IGNORING\_SECURITY\_DOMAINS,true);

System.setProperty("webdriver.ie.driver", "C:\\IEDriverServer.exe");

WebDriver driver = newInternetExplorerDriver(capabilities);

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

driver.get("http://gmail.com");

driver.quit();

}

}

-- how to set language while opening website

Using Firefox Browser :

FirefoxProfile profile = new FirefoxProfile();  
//setting the locale french : ‘fr’  
profile.setPreference(“intl.accept\_languages”,”fr”);  
driver = new FirefoxDriver(profile);  
driver.get(“[http://google.co.in&#8221](file:///C:\Users\leela\Downloads\Selenium.docx#8221););

Using Chrome Browser :

System.setProperty(“webdriver.chrome.driver”,”D:/DollarArchive/chromedriver.exe”);  
ChromeOptions options = new ChromeOptions();  
options.addArguments(“–lang= sl”);  
ChromeDriver driver = new ChromeDriver(options);  
driver.get(“[http://google.co.in&#8221](file:///C:\Users\leela\Downloads\Selenium.docx#8221););

Unfortunately it wont work for IE browser, We need to change it manually

-- write code to use textbox, button click events

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.firefox.FirefoxDriver;

import org.openqa.selenium.interactions.Actions;

public class Facebook {

public static void main(String args[]){

WebDriver driver = new FirefoxDriver();

driver.get("http://www.facebook.com");

WebElement email= driver.findElement(By.id("email"));

Actions builder = new Actions(driver);

Actions seriesOfActions = builder.moveToElement(email).click().sendKeys(email, "gati.naveen@gmail.com");

seriesOfActions.perform();

WebElement pass = driver.findElement(By.id("pass"));

WebElement login =driver.findElement(By.id("u\_0\_b"));

Actions seriesOfAction = builder.moveToElement(pass).click().sendKeys(pass, "naveench").click(login);

seriesOfAction.perform();

driver.

}

}

-- how to select items from dropdown/select box

package automationFramework;

import java.util.List;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.firefox.FirefoxDriver;

import org.openqa.selenium.support.ui.Select;

public class DropDownCommands {

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

WebDriver driver = new FirefoxDriver();

driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);

driver.get("http://toolsqa.wpengine.com/automation-practice-form");

Select oSelect = new Select(driver.findElement(By.id("continents")));

oSelect.selectByVisibleText("Europe");

Thread.sleep(2000);

oSelect.selectByIndex(2);

Thread.sleep(2000);

List<WebElement> oSize = oSelect.getOptions();

int iListSize = oSize.size();

for(int i =0; i < iListSize ; i++){

String sValue = oSelect.getOptions().get(i).getText();

System.out.println(sValue);

if(sValue.equals("Africa")){

oSelect.selectByIndex(i);

break;

}

}

driver.quit();

}

}

-- how to know if checkbox is checked or not in webpage

WebDriver driver = new InternetExplorerDriver();  
WebDriverBackedSelenium rc = new WebDriverBackedSelenium(driver, "");  
driver.get("[http://www.thejekels.com/dojo/demo/checkboxtree/](http://www.google.com/url?q=http%3A%2F%2Fwww.thejekels.com%2Fdojo%2Fdemo%2Fcheckboxtree%2F&sa=D&sntz=1&usg=AFQjCNFg3O4m8F9ZpfaRGboJ48iI1XQCQw)");  
if (driver.getWindowHandles().size()==0){  
throw new RuntimeException("Hello!");  
}  
String xpath = "//INPUT[@type='checkbox' and @id='cbt\_CheckBox\_1']";  
new WebDriverWait(driver, 5000).until(ExpectedConditions.presenceOfElementLocated(By.xpath(xpath)));  
WebElement checkbox = driver.findElement(By.xpath(xpath));   
System.out.println("============Before click");  
System.out.println("isSelected via webdriver: "+checkbox.isSelected());  
System.out.println("isSelected via rc: "+rc.isChecked(xpath));  
System.out.println("isSelected via value attribute: "+checkbox.getAttribute("value"));  
checkbox.click();   
System.out.println("============After click");  
System.out.println("isSelected via webdriver: "+checkbox.isSelected());  
System.out.println("isSelected via rc: "+rc.isChecked(xpath));  
System.out.println("isSelected via value attribute: "+checkbox.getAttribute("value"));

-- tell me code to pass values from parent window to child window

Parent Window:

Our parent window contains a simple TextBox and a LinkButton. The TextBox will display the data which is sent from the child window and the LinkButton will simply opens the child window also known as the popup window. Below is the simple code that is used to attach the onclick attribute to the LinkButton.

protected void Page\_Load(object sender, EventArgs e)

{

string openWindow = @"window.open('Child.aspx')";

this.LinkButton1.Attributes.Add("onclick", openWindow);

}

Now let's see the child window. In the code below we attach the onclick event to the LinkButton which is on the Child page.

Child Window:

protected void Page\_Load(object sender, EventArgs e)

{

this.LinkButton1.Attributes.Add("onclick", "PassValues()");

}

Child Page also contains a TextBox. Whatever you type in the TextBox will be transferred to the parent page. Now all we need is JavaScript so that we can pass the information to the parent page.

function PassValues()

{

var txtValue = document.getElementById("TextBox1").value;

// Now pass the value to the Parent form

window.opener.form1.txtUserName.value = txtValue;

window.close();

}

This is it! Now when you type something in the TextBox of the child window and press the LinkButton that value is passed to the parent window and displayed in the TextBox of the parent window. After that the child window is automatically closed.

-- write code to find out if all links are working or not

import [org.openqa.selenium.By](http://org.openqa.selenium.by/);

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.firefox.FirefoxDriver;

public class FindBrokenLinks {

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

  WebDriver driver = new FirefoxDriver();

  driver.get("[https://www.xyz.com/](https://www.google.com/url?q=https%3A%2F%2Fwww.xyz.com%2F&sa=D&sntz=1&usg=AFQjCNG02baXRkxW4WuokCXBFj8cBmZugw)");

  Thread.sleep(5000L);

  int size = driver.findElements(By.tagName("a")).size();

  System.out.println(size);

  List<String> Linkarray = new ArrayList<String>();

      List<WebElement> Linklist = driver.findElements(By.tagName("a"));

      for (WebElement link : Linklist) {

       String links = link.getText();

       Linkarray.add(links );

      }

      for (String linkToTest : Linkarray){

       driver.findElement(By.linkText(linkToTest)).click();

       Thread.sleep(15000L);

    if(driver.getTitle().contains("Problem")) {

     System.out.println("Fail");

    }

    else

    {

     System.out.println("pass");

    }

    driver.navigate().back();

    Thread.sleep(5000L);

   }

  driver.close();

}

}

-- write code on how to use javascriptexecutor?

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

import org.testng.annotations.Test;

public class JavaSE\_Test {

{

WebDriver driver= new FirefoxDriver();

JavascriptExecutor js = (JavascriptExecutor)driver;

Site. driver.get("[http://demo.guru99.com/V4/](http://www.google.com/url?q=http%3A%2F%2Fdemo.guru99.com%2FV4%2F&sa=D&sntz=1&usg=AFQjCNEJcoeaavmMJfDgPKK5fjwCWGsmuw)");

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

driver.manage().timeouts().setScriptTimeout(20, TimeUnit.SECONDS);

start\_time = System.currentTimeMillis();

executeAsyncScript() method to wait for 5 seconds js.executeAsyncScript("window.setTimeout(arguments[arguments.length - 1], 5000);"); System.out.println("Passed time: " + (System.currentTimeMillis() - start\_time));

}

}

up one javascript

diff b/w assert and verify

package stmTutorial;  
  
import org.openqa.selenium.WebDriver;  
import org.openqa.selenium.firefox.FirefoxDriver;  
import org.testng.Assert;  
import org.testng.annotations.Test;  
  
public class AssertionExample {  
  
    public void assertion(){  
        //Instantiation of driver object. To launch Firefox browser  
        WebDriver driver = new FirefoxDriver();  
  
        driver.get("[http://www.softwaretestingmaterial.com](http://www.google.com/url?q=http%3A%2F%2Fwww.softwaretestingmaterial.com&sa=D&sntz=1&usg=AFQjCNEOeqPQ8ldYCekTftAHOPBpNkwyeg)");  
              String Title = "Software Testing Material";  
        String GetTitle = driver.getTitle();  
        System.out.println("Assertion starts here...");  
        Assert.assertEquals(Title, GetTitle);  
        System.out.println("A blog for Software Testers");  
                driver.quit();          
    }  
}

--dif b/w driver and close

public class BrowserClose()

{

public static String baseUrl;

public void setup(){

driver = new FirefoxDriver();

baseUrl="[http://www.wikishown.com](http://www.google.com/url?q=http%3A%2F%2Fwww.wikishown.com&sa=D&sntz=1&usg=AFQjCNGrxVdqqZU37URV6sEsIbyibjQKjA)";

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

}

public void wikiShown(){

driver.manage().timeouts().implecitlyWait(30,TimeUnit.SSECONDS);

}

public void tearDown()

{

driver.quit();

}

}

--ajax cal using selinum

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.support.ui.ExpectedConditions;

import org.openqa.selenium.support.ui.WebDriverWait;

import org.testng.Assert;

import org.testng.annotations.BeforeClass;

import org.testng.annotations.Test;

public class Ajaxdemo { private String URL = "http://google.com /selenium/ajax.html"; WebDriver driver;

WebDriverWait wait;

public void setUp()

{

System.setProperty("webdriver.chrome.driver",".\\chromedriver.exe");

driver = new ChromeDriver(); driver.manage().window().maximize(); driver.navigate().to(URL);

}

public void test\_AjaxExample() {

By container = By.cssSelector(".container");

wait = new WebDriverWait(driver, 5); wait.until(ExpectedConditions.presenceOfElementLocated(container));

WebElement noTextElement = driver.findElement(By.className("radiobutton"));

String textBefore = noTextElement.getText().trim();

driver.findElement(By.id("yes")).click();

driver.findElement(By.id("buttoncheck")).click();

TextElement = driver.findElement(By.className("radiobutton")); wait.until(ExpectedConditions.visibilityOf(TextElement));

String textAfter = TextElement.getText().trim();

Assert.assertNotEquals(textBefore, textAfter);

System.out.println("Ajax Call Performed");

String expectedText = "Radio button is checked and it's value is Yes";

Assert.assertEquals(textAfter, expectedText); driver.close();

}

}

--Write code for right click in selenium

package com.pack.rightclick;

import org.openqa.selenium.Alert;

import org.openqa.selenium.By;

import org.openqa.selenium.NoSuchElementException;

import org.openqa.selenium.StaleElementReferenceException;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.firefox.FirefoxDriver;

import org.openqa.selenium.interactions.Actions;

import org.openqa.selenium.support.ui.ExpectedConditions;

import org.openqa.selenium.support.ui.WebDriverWait;

import org.testng.Assert; import org.testng.annotations.AfterClass;

import org.testng.annotations.BeforeClass;

import org.testng.annotations.Test;

public class RightClickExample { WebDriver driver;

public void Setup() { driver = new FirefoxDriver();

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

public void rightClickTest()

{

driver.navigate().to(URL);

By locator = By.cssSelector(".context-menu-one.box");

WebDriverWait wait = new WebDriverWait(driver, 5);

WebElement element=driver.findElement(locator);

rightClick(element);

WebElement elementEdit =driver.findElement(By.cssSelector(".context-menu-item.icon.icon-edit>span")); elementEdit.click();

Alert alert=driver.switchTo().alert();

String textEdit = alert.getText();

Assert.assertEquals(textEdit, "clicked: edit", "Failed to click on Edit link");

}

public void rightClick(WebElement element)

{

{

Actions action = new Actions(driver).contextClick(element);

action.build().perform();

System.out.println("Sucessfully Right clicked on the element");

} catch (StaleElementReferenceException e) {

System.out.println("Element is not attached to the page document " + e.getStackTrace());

} catch (NoSuchElementException e) { System.out.println("Element " + element + " was not found in DOM " + e.getStackTrace());

} catch (Exception e)

}

}

-- Write code for drag/drop in selenium

   
import java.util.concurrent.TimeUnit;  
   
import org.openqa.selenium.By;  
   
import org.openqa.selenium.WebDriver;  
   
import org.openqa.selenium.WebElement;  
   
import org.openqa.selenium.firefox.FirefoxDriver;  
   
import org.openqa.selenium.interactions.Action;  
   
import org.openqa.selenium.interactions.Actions;  
   
public class DragAndDrop {  
   
public static void main(String[] args) throws InterruptedException {  
   
  WebDriver driver = new FirefoxDriver();  
   
  String URL = "[http://sandbox.checklist.com/account/](http://www.google.com/url?q=http%3A%2F%2Fsandbox.checklist.com%2Faccount%2F&sa=D&sntz=1&usg=AFQjCNGjYNEE_7XDf1xAru0lYS4R6BPJRQ)";  
   
  driver.get(URL);  
   
  driver.findElement(By.name("j\_username")).sendKeys("Username");  
   
  driver.findElement(By.name("j\_password")).sendKeys("Password);  
   
  driver.findElement(By.name("login")).click();  
   
  driver.manage().window().maximize();  
   
  driver.manage().timeouts().implicitlyWait(10000, TimeUnit.MILLISECONDS);  
   
  WebElement From = driver.findElement(By.xpath(".//\*[@id='userChecklists']/li[1]/a/span"));  
   
  WebElement To = driver.findElement(By.xpath(".//\*[@id='userChecklists']/li[4]/a/span"));  
   
  Actions builder = new Actions(driver);  
   
      Action dragAndDrop = builder.clickAndHold(From)  
   
     .moveToElement(To)  
   
    .release(To)  
   
   .build();  
   
  dragAndDrop.perform();  
   
}  
   
}

\* package javaj;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class app {

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

// TODO Auto-generated method stub

System.setProperty("webdriver.gecko.driver","C:\\Users\\Leela Rathod\\Desktop\\Selenium Driver Files\\geckodriver-v0.13.0-win64\\geckodriver.exe");

WebDriver driver=new FirefoxDriver();

driver.get("https://npuosc.npu.edu");

//Thread.sleep(5000);

driver.findElement(By.cssSelector(".tile-content>img")).click();

Thread.sleep(5000);

//driver.findElement(By.linkText("#main>fieldset"));

driver.findElement(By.cssSelector("#UserName")).sendKeys("15276rs");

driver.findElement(By.cssSelector("#Password")).sendKeys("slrathod");

//driver.switchTo().defaultContent(driver.findElement("By.cssSelector("[id='UserName']")).sendKeys("15276rs");

driver.findElement(By.cssSelector(".left > form:nth-child(4) > p:nth-child(8) > input:nth-child(3)")).click();

}

}

\* import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class auto1 {

public static void main(String[] args) {

// TODO Auto-generated method stub

System.setProperty("webdriver.gecko.driver","C:\\Users\\Leela Rathod\\Desktop\\Selenium Driver Files\\geckodriver-v0.13.0-win64\\geckodriver.exe");

WebDriver driver=new FirefoxDriver();

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

driver.findElement(By.id("email")).sendKeys("leelarathod5@gmail.com");

driver.findElement(By.id("pass")).sendKeys("leelavenky@143");

driver.findElement(By.xpath(".//\*[@id='u\_0\_n']")).click();

\* package selenium;

public class basic {

public static void main(String args[]){

int a,b;

a=3;

b=3;

int x=a+b;

System.out.println(x);

}

}

\* package selenium;

import org.openqa.selenium.firefox.FirefoxProfile;

public class BrowserInvocation {

public static void main(String args[]){

FirefoxProfile =new FirefoxProfile();

}

}

\* package selenium;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class browserinvoking {

public static void main(String args[]){

System.setProperty("webdriver.gecko.driver", "C:\\Users\\Leela Rathod\\Desktop\\Selenium Driver Files\\geckodriver-v0.13.0-win64\\geckodriver.exe");

WebDriver driver=new FirefoxDriver();

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

}

}

\*Button

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class button {

public static void main(String args[]){

System.setProperty("webdriver.gecko.driver", "C:\\Users\\Leela Rathod\\Desktop\\Selenium Driver Files\\geckodriver-v0.13.0-win64\\geckodriver.exe");

WebDriver driver=new FirefoxDriver();

driver.get("http://www.echoecho.com/htmlforms10.htm");

driver.findElement(By.xpath("//input[@value='Milk']")).click();

System.out.println(driver.findElement(By.xpath(".//input[@type='radio']")).getSize());

}

}

\*css

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class css {

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

// TODO Auto-generated method stub

System.setProperty("webdriver.gecko.driver","C:\\Users\\Leela Rathod\\Desktop\\Selenium Driver Files\\geckodriver-v0.13.0-win64\\geckodriver.exe");

WebDriver driver=new FirefoxDriver();

driver.get("https://npuosc.npu.edu");

//Thread.sleep(5000);

driver.findElement(By.cssSelector(".tile-content>img")).click();

Thread.sleep(5000);

//driver.findElement(By.linkText("#main>fieldset"));

driver.findElement(By.cssSelector("#UserName")).sendKeys("15276rs");

driver.findElement(By.cssSelector("#Password")).sendKeys("vkolluru1");

//driver.switchTo().defaultContent(driver.findElement("By.cssSelector("[id='UserName']")).sendKeys("15276rs");

driver.findElement(By.cssSelector(".left > form:nth-child(4) > p:nth-child(8) > input:nth-child(3)")).click();

}

\* import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class Dropdown {

public static void main(String[] args) {

// TODO Auto-generated method stub

System.setProperty("webdriver.gecko.driver","C:\\Users\\Leela Rathod\\Desktop\\Selenium Driver Files\\geckodriver-v0.13.0-win64\\geckodriver.exe");

WebDriver driver=new FirefoxDriver();

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

//driver.findElement(By.xpath(".//\*[@class='signupclose icon ic-cancel-fill']")).click();

driver.findElement(By.cssSelector(".signupClose")).click();

driver.findElement(By.xpath(".//input[@id='ember707']")).click();

driver.findElement(By.xpath(".//input[@id='ember707']")).sendKeys("sjc");

driver.findElement(By.xpath(".//input[@id='ember718']")).click();

driver.findElement(By.xpath(".//input[@id='ember718']")).sendKeys("sfo");

}

}

\*B2

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

import org.openqa.selenium.support.ui.Select;

public class Dropdown2 {

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

System.setProperty("webdriver.gecko.driver","C:\\Users\\Leela Rathod\\Desktop\\Selenium Driver Files\\geckodriver-v0.13.0-win64\\geckodriver.exe");

WebDriver driver=new FirefoxDriver();

driver.get("http://www.spicejet.com");

//Thread.sleep(5000);

driver.findElement(By.cssSelector("#ctl00\_mainContent\_ddl\_originStation1\_CTXTaction")).click();

driver.findElement(By.cssSelector("#dropdownGroup1 > div:nth-child(2) > ul:nth-child(2) > li:nth-child(7) > a:nth-child(1)")).click();

driver.findElement(By.cssSelector("#ctl00\_mainContent\_ddl\_destinationStation1\_CTXTaction")).click();

driver.findElement(By.cssSelector("#glsctl00\_mainContent\_ddl\_destinationStation1\_CTNR > table:nth-child(2) > tbody:nth-child(1) > tr:nth-child(2) > td:nth-child(2) > div:nth-child(3) > div:nth-child(1) > div:nth-child(2) > ul:nth-child(2) > li:nth-child(1) > a:nth-child(1)")).click();

/\*Select dropdown=new Select(driver.findElement(By.cssSelector("#ctl00\_mainContent\_ddl\_Adult")));

dropdown.selectByIndex(2);

dropdown.selectByValue("6");

dropdown.selectByVisibleText("3adults");

//Thread.sleep(5000);\*/

/\*driver.findElement(By.cssSelector("#ctl00\_mainContent\_ddl\_Child")).click();

Select child=new Select(driver.findElement(By.cssSelector("#ctl00\_hmainContent\_ddl\_Child")));

child.selectByIndex(1);

child.selectByValue("1");

child.selectByVisibleText("1Child");

Thread.sleep(5000);

//Select dropdown2=new Select(driver.findElement(By.cssSelector("#ctl00\_mainContent\_ddl\_Infant")));

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

Select infant=new Select(driver.findElement(By.cssSelector("#ctl00\_mainContent\_ddl\_Infant")));

infant.selectByIndex(2);

infant.selectByValue("2");

infant.selectByVisibleText("2Infants");

Thread.sleep(5000); \*/

driver.findElement(By.cssSelector("#ctl00\_mainContent\_DropDownListCurrency")).click();

Select currency=new Select(driver.findElement(By.cssSelector("#ctl00\_mainContent\_DropDownListCurrency")));

currency.selectByIndex(1);

System.out.println(driver.findElement(By.cssSelector("#ctl00\_mainContent\_chk\_IndArm")).isSelected());

driver.findElement(By.cssSelector("#ctl00\_mainContent\_chk\_IndArm")).click();

System.out.println(driver.findElement(By.cssSelector("#ctl00\_mainContent\_chk\_IndArm")).isSelected());

driver.findElement(By.cssSelector("#ctl00\_mainContent\_chk\_IndArm")).click();

System.out.println(driver.findElement(By.cssSelector("#ctl00\_mainContent\_chk\_IndArm")).isSelected());

}

}

\*gmail

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class gmail {

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

// TODO Auto-generated method stub

System.setProperty("webdriver.gecko.driver","C:\\Users\\Leela Rathod\\Desktop\\Selenium Driver Files\\geckodriver-v0.13.0-win64\\geckodriver.exe");

WebDriver driver=new FirefoxDriver();

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

driver.findElement(By.xpath(".//\*[@id='Email']")).sendKeys("leelarathod6@gmail.com");

driver.findElement(By.xpath(".//\*[@id='next']")).click();

Thread.sleep(5000);

//new WebDriverWait(driver,30).until(ExpectedConditions.visibilityOfElementLocated(By.xpath("//div[@id='password-shown']/div[1]/input[@id='Passwd']"))).sendKeys("vkolluru1");

driver.findElement(By.xpath(".//\*[@id='Passwd']")).sendKeys("vkolluru1");

driver.findElement(By.xpath(".//\*[@id='signIn']")).click();

}

}

\* scroll

package javaj;

import org.openqa.selenium.By;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.firefox.FirefoxDriver;

import org.openqa.selenium.interactions.Actions;

public class mousemovement {

public static void main(String args[]){

System.setProperty("webdriver.gecko.driver", "C:\\Users\\leela\\Desktop\\Selenium Driver Files\\geckodriver-v0.13.0-win64\\geckodriver.exe");

WebDriver driver=new FirefoxDriver();

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

Actions abc=new Actions(driver);

WebElement element=driver.findElement(By.xpath(".//\*[@id='nav-link-accountList']"));

abc.moveToElement(element).build().perform();

WebElement xyz=driver.findElement(By.xpath(".//\*[@id='twotabsearchtextbox']"));

abc.keyDown(keys.SHIFT)=moveToElement(xyz).sendkeys("smallletter").build().perform();

abc.contextClick(xyz).build().perform();

}

}

[How to read multiple sets of value in the excel sheet using DataProvider in Selenium WebDriver with Java and TestNG](https://stackoverflow.com/questions/24136081/how-to-read-multiple-sets-of-value-in-the-excel-sheet-using-dataprovider-in-sele)

import java.io.File;

import jxl.Sheet;

import jxl.Workbook;

import org.testng.annotations.BeforeSuite;

import org.testng.annotations.DataProvider;

import org.testng.annotations.Test;

import org.junit.AfterClass;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

//import org.testng.annotations.BeforeClass;

public class TestCase {

String[][] tabArray = null;

Workbook workbk;

Sheet sheet;

int rowCount, colCount;

String sheetPath = "test/Resources/Data/Auto\_Increment.xls";

WebDriver login;

//int eRow, eCol, sRow = 0, sCol = 0;

@BeforeSuite

public void setUp(){

login = new FirefoxDriver();

login.get("http://etazo.tangosoftware.com");

System.out.println("select the etazo web link..");

}

@DataProvider

public Object[][] getLoginData() throws Exception {

Object[][] retObjArr = getExcelData(sheetPath, "Sheet1");

System.out.println("getData function executed!!");

return retObjArr;

}

// Excel API to read test data from excel workbook

public String[][] getExcelData(String xlPath, String shtName)

throws Exception {

Workbook workbk = Workbook.getWorkbook(new File(xlPath));

Sheet sht = workbk.getSheet(shtName);

rowCount = sht.getRows();

colCount = sht.getColumns();

tabArray = new String[rowCount][colCount - 2];

System.out.println("erow: " + rowCount);

System.out.println("ecol: " + colCount);

for (int i = 0; i < rowCount; i++) {

for (int j = 0; j < 3; j++) {

tabArray[i][j] = sht.getCell(j, i).getContents();

}

}

return (tabArray);

}

@Test(dataProvider = "getLoginData")

public void LoginData(String distID, String asmtId, String studID)

throws InterruptedException, BiffException, IOException {

Administartion(distID, asmtId, studID);

}

public void Administartion(String distID, String asmtId, String studID)

throws BiffException, IOException {

Workbook workbk = Workbook.getWorkbook(new File(sheetPath));

Sheet sht = workbk.getSheet("Sheet1");

int currRow = sht.findCell(studID).getRow();

//login.findElement(By.xpath("//\*[@id='question-"+sIndex+"']/bubbles/circle["+sValue+"]")).click();

System.out.println(sht.getCell(3, currRow).getContents() + " Index ");

System.out.println(sht.getCell(4, currRow).getContents() + " Answer selection");

}

Frameworks

Annotations.

Example:

import org.testng.annotations.\*;

public class SimpleTest {

public void setUp() {

}

public void aFastTest() {

System.out.println("Fast test");

}

public void aSlowTest() {

System.out.println("Slow test");

}

}

Junit:

Example to find maximum number for an array

package com.javatpoint.logic;

public class Calculation {

public static int findMax(int arr[]){

int max=0;

for(int i=1;i<arr.length;i++){

if(max<arr[i])

max=arr[i];

}

return max;

}

}

unit test cases with Testng

package com.asjava;

import org.testng.annotations.\*;

public class TestNGSimpleTest {

int testInt;

public void setUp() {

testInt = 0;

}

public void addTest() {

testInt++;

assert (testInt == 1);

System.out.println("add test");

}

public void subtractTest() {

testInt--;

assert (testInt == -1);

System.out.println("subtract test");

}

}

package com.javarticles.testng;

import org.testng.annotations.Test;

public class UnitLevelTesting {

public void unitTest1() {

System.out.println("Unit test1");

}

public void unitTest2() {

System.out.println("Unit test2");

}

public void unitTest3() {

System.out.println("Unit test3");

}

}

@Listeners are used to with test class. It is helpful for logging purpose.

package automationFramework;

import org.testng.annotations.AfterClass;

import org.testng.annotations.AfterMethod;

import org.testng.annotations.AfterSuite;

import org.testng.annotations.AfterTest;

import org.testng.annotations.BeforeClass;

import org.testng.annotations.BeforeMethod;

import org.testng.annotations.BeforeSuite;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Test;

public class Sequencing {

public void testCase1() {

System.out.println("This is the Test Case 1");

}

public void testCase2() {

System.out.println("This is the Test Case 2");

}

public void beforeMethod() {

System.out.println("This will execute before every Method");

}

public void afterMethod() {

System.out.println("This will execute after every Method");

}

public void beforeClass() {

System.out.println("This will execute before the Class");

}

public void afterClass() {

System.out.println("This will execute after the Class");

}

public void beforeTest() {

System.out.println("This will execute before the Test");

}

public void afterTest() {

System.out.println("This will execute after the Test");

}

public void beforeSuite() {

System.out.println("This will execute before the Test Suite");

}

public void afterSuite() {

System.out.println("This will execute after the Test Suite");

}

}

JUNIT:

* After: If you allocate external resources in a Before method you need to release them after the test runs.
* AfterClass: If you allocate expensive external resources in a BeforeClass method you need to release them after all the tests in the class have run.
* Before: When writing tests, it is common to find that several tests need similar objects created before they can run.
* BeforeClass: Sometimes several tests need to share computationally expensive setup (like logging into a database).
* Ignore : Sometimes you want to temporarily disable a test or a group of tests.
* Test: The Test annotation tells JUnit that the public void method to which it is attached can be run as a test case.