Class11Screenshots

Why do we need screenshots in testing?

in testing it is very important to take screenshots in order to prove the our test case

covered certain functionality

In selenium in order to take a screenshot we will be using

TakesScreenshot interface

Actions class:

is given by selenium to capture keyboard and mouse events such as:

Move to element

Drag and drop

double click

right click

POM -- Page Object Model

is a design pattern which allows us to enhance test maintenance and reduce our code duplication

Advantages of POM:

1. Code reusability

2. Code maintainability

3. Object Repository

4. Readibility

KeyUSage

package com.Syntax.class11;

import org.openqa.selenium.By;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import java.util.concurrent.TimeUnit;

public class KeyUSage {

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

// set the path to the driver to link it with our class on mac u dont need .exe on windows u need .exe

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

// create a WebDriver instance

WebDriver driver = new ChromeDriver();

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

// maximize

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

driver.get("http://secure.smartbearsoftware.com/samples/testcomplete11/WebOrders/login.aspx");

// username Text Box

WebElement userName = driver.findElement(By.xpath("//input[@name='ctl00$MainContent$username']"));

userName.sendKeys("Tester", Keys.TAB);

Thread.sleep(3000);

// password field

WebElement pass = driver.findElement(By.xpath("//input[@name='ctl00$MainContent$password']"));

pass.sendKeys("test",Keys.ENTER);

}

}

actionClass

package com.Syntax.class11;

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.interactions.Actions;

import javax.swing.\*;

import java.util.concurrent.TimeUnit;

public class actionClass {

public static void main(String[] args) {

// set the path to the driver to link it with our class on mac u dont need .exe on windows u need .exe

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

// create a WebDriver instance

WebDriver driver = new ChromeDriver();

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

// maximize

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

// goto amazon.com

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

// find the element EN

WebElement enHover = driver.findElement(By.xpath("//div[text()='EN']"));

// action class

Actions action = new Actions(driver);

action.moveToElement(enHover).perform();

}

}

actionClassExamples

package com.Syntax.class11;

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.interactions.Actions;

import java.util.concurrent.TimeUnit;

public class actionClassExamples {

public static void main(String[] args) {

// set the path to the driver to link it with our class on mac u dont need .exe on windows u need .exe

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

// create a WebDriver instance

WebDriver driver = new ChromeDriver();

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

// maximize

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

driver.get("http://demo.guru99.com/test/simple\_context\_menu.html");

WebElement rightClickBtn = driver.findElement(By.xpath("//span[text()='right click me']"));

Actions action=new Actions(driver);

action.contextClick(rightClickBtn).perform();

}

}

dragAndDrop

package com.Syntax.class11;

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.interactions.Actions;

import java.util.concurrent.TimeUnit;

public class dragAndDrop {

public static void main(String[] args) {

// set the path to the driver to link it with our class on mac u dont need .exe on windows u need .exe

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

// create a WebDriver instance

WebDriver driver = new ChromeDriver();

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

// maximize

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

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

// switch the focus to the iframe

driver.switchTo().frame(0);

// dragable

WebElement dragableElement = driver.findElement(By.xpath("//div[@id='draggable']"));

// drop location

WebElement dropLocation = driver.findElement(By.xpath("//div[@id='droppable']"));

Actions action= new Actions(driver);

// action.dragAndDrop(dragableElement,dropLocation).perform();

// or u can use this also

action.clickAndHold(dragableElement).moveToElement(dropLocation).release().build().perform();

}

}

screenShot

package com.Syntax.class11;

import org.apache.commons.io.FileUtils;

import org.openqa.selenium.\*;

import org.openqa.selenium.chrome.ChromeDriver;

import java.io.File;

import java.io.IOException;

import java.util.concurrent.TimeUnit;

public class screenShot {

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

// set the path to the driver to link it with our class on mac u dont need .exe on windows u need .exe

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

// create a WebDriver instance

WebDriver driver = new ChromeDriver();

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

// maximize

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

driver.get("http://secure.smartbearsoftware.com/samples/testcomplete11/WebOrders/login.aspx");

// username Text Box

WebElement userName = driver.findElement(By.xpath("//input[@name='ctl00$MainContent$username']"));

userName.sendKeys("Tester", Keys.TAB);

// password field

WebElement pass = driver.findElement(By.xpath("//input[@name='ctl00$MainContent$password']"));

pass.sendKeys("test",Keys.ENTER);

// takescreenshot

TakesScreenshot ss= (TakesScreenshot)driver;

// screenshot is taken at this point

File sourceFile = ss.getScreenshotAs(OutputType.FILE);

// save the file from your variable into the location into your computer

FileUtils.copyFile(sourceFile,new File("ss/myscreenshots/abc.png"));

}

}

package com.Syntax.utlis;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import java.util.concurrent.TimeUnit;

public class CommonMethods {

// the webDriver instance is accessible in all the methods now

public static WebDriver driver;

public static void openWithSpecificUrl(String url) {

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

driver = new ChromeDriver();

driver.get(url);

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

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

}

public static void closeBroswer() {

driver.quit();

}

}

package com.Syntax.Pages;

import com.Syntax.utlis.CommonMethods;

import org.openqa.selenium.By;

import org.openqa.selenium.WebElement;

public class loginPage extends CommonMethods {

public WebElement userNameField = driver.findElement(By.id("txtUsername"));

public WebElement passwordField = driver.findElement(By.id("txtPassword"));

public WebElement loginButton = driver.findElement(By.id("btnLogin"));

public WebElement LoginSign = driver.findElement(By.xpath(" //div[text()='LOGIN Panel']"));

}

package com.Syntax.Test;

import com.Syntax.Pages.loginPage;

import com.Syntax.utlis.CommonMethods;

public class loginPageTest {

public static void main(String[] args) {

CommonMethods.openWithSpecificUrl("http://hrm.syntaxtechs.net/humanresources/symfony/web/index.php/auth/login");

loginPage login =new loginPage();

login.userNameField.sendKeys("Admin");

login.passwordField.sendKeys("Hum@nhrm123");

login.loginButton.click();

}

}

package com.Syntax.Pages;

import com.Syntax.utlis.CommonMethods;

import org.openqa.selenium.By;

import org.openqa.selenium.WebElement;

public class loginPage extends CommonMethods {

public WebElement userNameField = driver.findElement(By.id("txtUsername"));

public WebElement passwordField = driver.findElement(By.id("txtPassword"));

public WebElement loginButton = driver.findElement(By.id("btnLogin"));

public WebElement LoginSign = driver.findElement(By.xpath(" //div[text()='LOGIN Panel']"));

}