\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Selenium Class07\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\* Window Handles\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Handling multiple windows:

In order to handle multiple windows we will be using:

getWindowHandle()

getWindowHandles()

WindowHandle:

is a unique ID that holds the address of the window or a tab

It is approximately 40 alphanumeric character ID

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Waits\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Synchronization:

is the process of bringing the speed of two or ore components to the same level

in this case we are bringing our script and page load to the same speed level

Thread.sleep() -- static wait / unconditional wait

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Implicit wait\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Implicit wait:

it tells the webdriver to wait for a certain amount of time before throwing an exception

it will only be written once and will be applied to the whole session of the execution

We can say that implicit wait is a global wait

Implicit wait is usually set to 20 seconds. If your element is found in any time between the remaining

time, that time will be ignored and your script will move on to the next line or action

If the element is not found in a given time, ONLY then you will get an exception

Syntax:

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

---.........Revision------------------

Window Handles

1.each window has a unique code --> window handle

so we know that which window handle belongs to ehich window?

No.

driver .getWndowHandles ---> Set<String>

in order to find our desired window handle we loop through each handle

we switch to the first handle

we get the title

we see if it is our desired title

if yes break ; if no continue

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Implicit wait

implicit wait is going to wait --> until --> The weBelement is found in DOM

if teh web element is not found in the DOM --> it will give us an exception No such element after TIME OUT

package com.Syntax.class07;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import java.util.concurrent.TimeUnit;

public class Wait {

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);

// go to https://syntaxprojects.com/dynamic-elements-loading.php

driver.get("https://syntaxprojects.com/dynamic-elements-loading.php");

// click on the starrt button

WebElement startBtn = driver.findElement(By.id("startButton"));

startBtn.click();

// find the text

WebElement welcomeText = driver.findElement(By.xpath("//h4[text()='Welcome Syntax Technologies']"));

String text = welcomeText.getText();

System.out.println("the text is :"+text);

// implicit wait is going to wait until the element is found

}

}

package com.Syntax.class07;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import java.util.concurrent.TimeUnit;

public class implicitWaits {

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);

// go to faceBook.com

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

// click on create new account

WebElement createNewAccountBtn = driver.findElement(By.xpath("//a[text()='Create New Account']"));

createNewAccountBtn.click();

// Send the first name

WebElement firstName = driver.findElement(By.xpath("//input[@name='firstname']"));

firstName.sendKeys("abracadabra");

}

}

package com.Syntax.class07;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class windowHandle {

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();

// task : goto gmail signup and get the window handle

// goto gmail signup page

driver.get("http://accounts.google.com/signup");

// get the window handle for the current page

String gmailHandle = driver.getWindowHandle();

// print

System.out.println("the handle of the current page is :"+gmailHandle);

}

}

package com.Syntax.class07;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import java.util.Set;

public class windowHandlingAdvance {

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();

// open gmail.com sigup page

driver.get("http://accounts.google.com/signup");

// click on help button

WebElement helpBtn = driver.findElement(By.xpath("//a[text()='Help']"));

helpBtn.click();

// click on privacy button

WebElement privacyBtn = driver.findElement(By.xpath("//a[text()='Privacy']"));

privacyBtn.click();

// the title of my desired page is Google Account Help

// get all the window handles

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

for(String handle:allHandles){

// switching the focus to the current handle from list

driver.switchTo().window(handle);

// get the title of the window to which the driver has switched

String title = driver.getTitle();

// compare if the title is of the help

if(title.equalsIgnoreCase("Google Account Help")){

System.out.println("the current page under focus is :"+title);

break;

}

}

// find the community button and click on it

WebElement communityBtn = driver.findElement(By.xpath("//a[text()='Community']"));

communityBtn.click();

}

}