using Microsoft.VisualStudio.TestTools.UnitTesting;

using NUnit.Framework;

using NUnit.Framework.Constraints;

using OpenQA.Selenium;

using OpenQA.Selenium.Chrome;

using OpenQA.Selenium.Support.UI;

using Assert = NUnit.Framework.Assert;

//‒ Create a Project using Selenium (C#) and Nunit

//‒ Convert Project to Page Object Design with following steps:

//1.Going to Google Search home page

//2. Input any text to search

//3. Reach to result screen, verify Title of this screen is matching with text in step 2

//4. Click on 1st result, verify any text in this screen

namespace NunitPractice

{

[TestClass]

public class UnitTest1

{

// Vars

protected WebDriverWait \_wait;

protected IWebDriver \_driver;

protected string GOOGLE\_URL = "https://www.google.com/";

protected string SEARCH\_INPUT = "reddit";

protected string HOT\_TEXT = "Sign Up";

// Locators

private By searchBar = By.XPath("/html/body/div[1]/div[3]/form/div[1]/div[1]/div[1]/div/div[2]/input");

private By firstResult = By.TagName("h3");

private By signUpBtn = By.XPath("//a[@href='https://www.reddit.com/register/?dest=https%3A%2F%2Fwww.reddit.com%2F%27)]%22'");

[SetUp]

// prepare chromedriver

public void SetUp()

{

\_driver = new ChromeDriver(AppDomain.CurrentDomain.BaseDirectory);

\_wait = new WebDriverWait(\_driver, TimeSpan.FromSeconds(10));

}

//1.Going to Google Search home page

//2. Input any text to search

public void EnterSearch()

{

\_driver.Navigate().GoToUrl(GOOGLE\_URL);

\_driver.Manage().Window.Maximize();

IWebElement getSearchBar = ReturnWebElement(searchBar);

getSearchBar.Clear();

getSearchBar.SendKeys(SEARCH\_INPUT);

getSearchBar.SendKeys(Keys.Enter);

}

[Test]

public void TestHW()

{

EnterSearch();

//3. Reach to result screen, verify Title of this screen is matching with text in step 2

string pageTitle = \_driver.Title;

string stringBeforeDash = pageTitle.Substring(0, pageTitle.IndexOf(" -"));

Assert.That(SEARCH\_INPUT, Is.EqualTo(stringBeforeDash));

//4. Click on 1st result, verify any text in this screen

IWebElement getFirstResult = ReturnWebElement(firstResult);

getFirstResult.Click();

IWebElement getSignUpBtnText = ReturnWebElement(signUpBtn);

Assert.That(getSignUpBtnText.Text, Is.EqualTo(HOT\_TEXT));

}

private object That(string text, EqualConstraint equalConstraint)

{

throw new NotImplementedException();

}

// Find and click elems

[TestMethod]

public IWebElement ReturnWebElement(By by)

{

IWebElement e = \_driver.FindElement(by);

//\_wait.Until(SeleniumExtras.WaitHelpers.

// ExpectedConditions.ElementIsVisible(by));

return e;

}

[TestCleanup]

public void CleanUpTest()

{

\_driver.Quit();

}

}

}