Selenium Documentation

Packages Used:

* NUnit
* NUnit3TestAdapter
* Selenium.WebDriver
* \*Possibly\* Microsoft.NET.Test.Sdk

Creating a NUnit Project in Visual Studio 2022

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1. Open Visual Studio and select ‘Create a new Project’.

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1. Search ‘Unit’ in the top right corner.
2. Select the ‘Unit Test Project (.NET Framework) with the C# symbol
3. Hit ‘Next’ once selected

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1. Type in the desired project name and then select ‘Create’.

Testing using NUnit Project with Example

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1. Make sure that the following are being called on:
   1. NUnit.Framework
   2. OpenQA.Selenium
   3. OpenQA.Selenium.Chrome \*If Chrome is being used\*
2. Inside the internal class, declaring [Test] above the method is used to signify to the program what ‘stage’ the following method will be in. There are other declarations such as [SetUp] and [Teardown].
3. Within the first method, a driver object should be made when using Chrome.
4. Driver.Navigate().GoToUrl(<https://www.selenium.dev/>); uses the created driver to open a Chrome tab and go to the desired url.
5. Once this url is reached, assert.that(driver.Title, Is.EqualTo(“Selenium”)); checks to see if the desired string is apart of the url.
6. Driver.Quit(); kills the Chrome instance after the checks are done.

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1. Once tests are coded, they can be accessed in the “Test” tab located at the top of the screen in Visual Studio 2022.
2. It is recommended to use the Test Explorer in the drop down menu to have an overview of all of the tests as well as their status once ran.

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1. The top of the Test Explorer will give you information on the success rates of the tests ran.
2. Tests can be individually ran and are stored in a file structure for organization.
3. The check mark in front of each branch is given to make it easier to see what went wrong if a problem arises. This can be maximally utilized by organizing similar tests into different folders in a testing folder.
4. The duration of the test is given as well as the total duration of each folder as a total (we only have the sample test so they will all be the same).