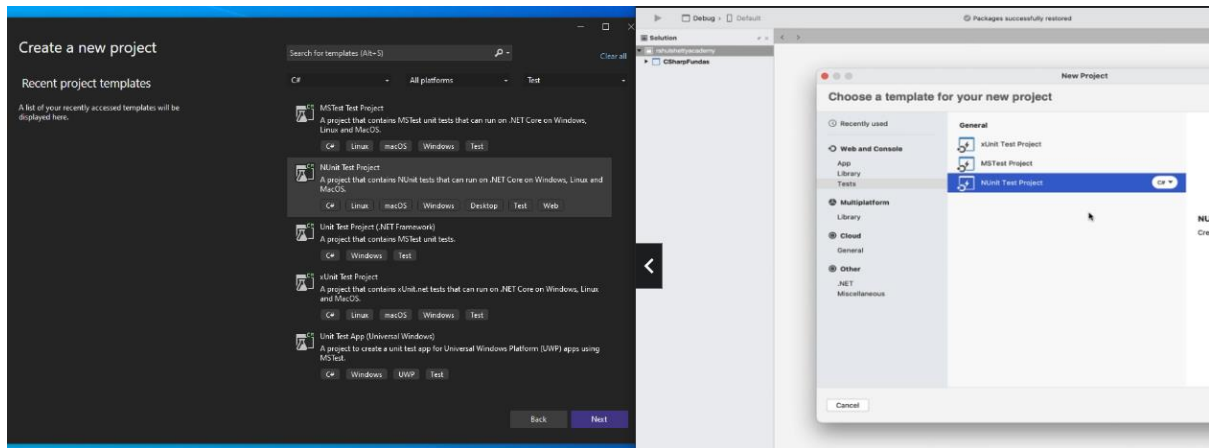
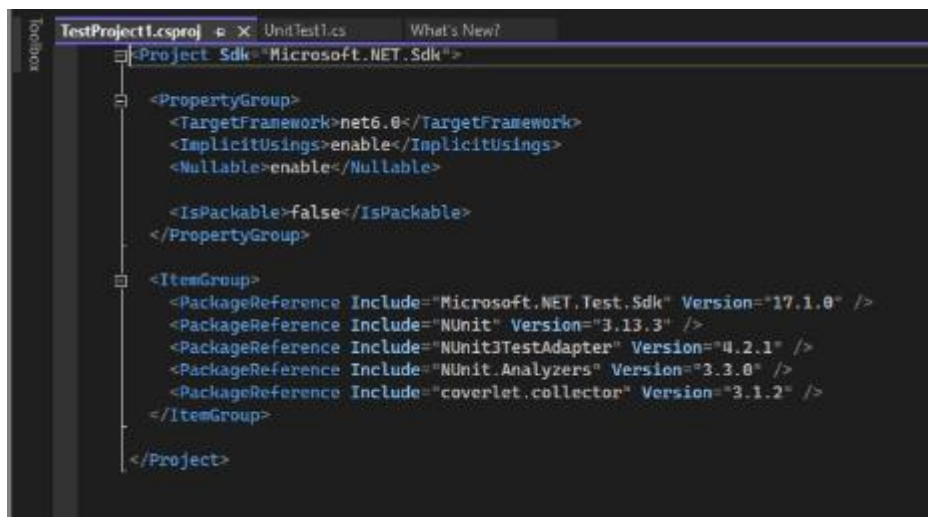


Project type: NUnit test project



Right click on project and click edit project file and can see the dependencies of NUnit.



Test frameworks:

Junit/TestEngine -- java

Pytest -- python

Mocha/Jasmine -- Javascript

NUnit --- C#

Right click on project – manage nunit packages – selenium.webdriver, selenium.support

When using Selenium.WebDriver package, the Selenium.Support package aids/needed in creating automation test code

In the test code below, Setup is for prereq environment setup like webpage loading, Test is core logic what we need to do after page loaded. Teardown is for cleanup tasks.

```
UnitTest1.cs | Program6.cs | SeleniumLearning.csproj | CSharpFundas.csproj
Tests > CloseBrowser()

3 namespace SeleniumLearning
4 {
5     public class Tests
6     {
7         [SetUp]
8         public void Setup()
9         {
10             TestContext.Progress.WriteLine("Setup method execution");
11         }
12
13         [Test]
14         public void Test1()
15         {
16             TestContext.Progress.WriteLine("THIS is test 1");
17         }
18
19         [Test]
20         public void Test2()
21         {
22             TestContext.Progress.WriteLine("THIS is test 2");
23         }
24
25
26         [TearDown]
27         public void CloseBrowser()
28         {
29
30             TestContext.Progress.WriteLine("Tear down method")
31         }
32     }
33 }
```

After building.

View –tests---test explorer

Right click on Tests → run tests

Outputs → Tests

```
Output
Show output from: Tests
NUnit3TestExecutor discovered 2 of 2 NUnit test cases
Setup method execution
THIS is test 1
Tear down method
Setup method execution
THIS is test 2
Tear down method
```

In mac:

```
Test Results
Successful Tests | Inconclusive Tests | Failed Tests | Ignored Tests | Output | To Run Tests
Test results for Tests configuration Debug
ExecutionThreadAffinityMask option not supported for framework: .NETCoreApp,Version=v5.0.
NUnit Adapter 3.16.1.0: Test execution started
Running selected tests in /Users/rph/shetty/rahulshettyacademy/SeleniumLearning/bin/Debug/net5.0/Selen
NUnit3TestExecutor converted 2 of 2 NUnit test cases
THIS is test 1
Tear down method
Setup method execution
THIS is test 2
Tear down method
NUnit Adapter 3.16.1.0: Test execution complete
Passed: 2 | Failed: 0 | Errors: 0 | Inconclusive: 0 | Invalid: 0 | Ignored: 0 | Skipped: 0 | Time: 00:00:00.0047660
```

To invoke chrome browser.:

Using WebDriverManager, you don't need to handle downloading of specific webdriver for browser with specific version, it handles internally. Selenium.WebDriver nuget package doesn't contain that. Need to install one more.



Then use that below.

```
//WebDriverManager-(
new WebDriverManager.DriverManager().SetupDriver(new ChromeConfig());
IWebDriver driver = new ChromeDriver();
```

```
public class SeleniumFirst
{
    IWebDriver driver;

    [SetUp]

    public void StartBrowser()
    {
        //Methods -geturl, click-
        //chromedriver.exe on chrome browser
        //99 .exe (99)
        //WebDriverManager-(
        new WebDriverManager.DriverManager().SetupDriver
        driver = new ChromeDriver();

    }

    [Test]
    public void Test1()
    {

        driver.Url = "https://rahulshettyacademy.com
```

```
driver.Url = "https://rahulshettyacademy.com/#/index";
TestContext.Progress.WriteLine(driver.Title);
TestContext.Progress.WriteLine(driver.Url);
driver.Close();//1 windows
//driver.Quit(); //2 windows
```

To maximize window:

```
//WebDriverManager-(
new WebDriverManager.DriverManager().SetupDriver(new ChromeConfig());
driver = new ChromeDriver();
driver.Manage().Window.Maximize();
```

// To see code of page.

```
// driver.PageSource  
driver.Close(); //1.vt
```

Firefox uses geckodriver. Like Chrome uses chromedriver, but FirefoxConfig manages it internally.

```
//33.txt (33)  
//WebDriverManager-(  
new WebDriverManager.DriverManager().SetUpDriver(new FirefoxConfig());  
// driver = new ChromeDriver();  
driver = new FirefoxDriver();
```

For Microsoft edge:

```
//WebDriverManager-(  
new WebDriverManager.DriverManager().SetUpDriver(new EdgeConfig());  
// driver = new ChromeDriver();  
//driver = new FirefoxDriver();  
driver = new EdgeDriver();
```

<https://github.com/uday1kiran/MyBlog/blob/master/RunningNotes/Selenium/c%23/samples/sample1.cs>