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**PROJECT REPORT**

**AUTOMATION FRAMEWORK DESIGN USING SPECFLOW**

The first Step is to open Goggle browser. Go to: https://visualstudio.microsoft.com

* Click on downloads for windows >>Community 2017, which is a free version. The other versions; Enterprise, Professionals are licensed.
* After downloading, it will then be Installed

Open Visual Studio or click on Visual Studio icon if you have it installed already.

Integrate Visual Studio with Specflow

Click on Tools –Extensions & Updates to check that Specflow is already installed. Then close. Add Specflow if you do not have it.

**CREATE NEW TEST PROJECT**

Open Visual studio

Click on file >> New >> Project – New Project is displayed.

Click on Test Template >> Unit Test Project (.NET FRAMEWORK)

Create your folder on the desktop to make it easier to locate and name it.

Click browse and click desktop to save your document on the file created, then click ok.

Delect UnitTest1.cs because it is not needed.

Right click on the project and click on build to refresh and the build solution.

**ADD NUGGET PACKAGES**

Go to tool >> Nuget Package Manage >> click on Manage NuGet Packages for Solution.

MsTest.TestAdapter & MsTest.Test Framework package is already installed by default. Right-click on the solution and click on “Manage NuGet Packages”. Installed packages will pop out >>click on browse then, type in the packages you want to instal.

* Nunit: Type in NUnit in the browser – click instal- check the output at the bottom to check if the download is successful.
* NUnit.Console –type in NUnit.console in the browser- click instal -NUnit.consloe installed.
* NUnit.runners- click instal- installed
* NUnit3TestAdapter: click instal
* Specflow: Click instal, Specflow Installed
* Specflow aims at bridging the communication domain experts and developers by binding business readable behaviour specifications to the underlying implementation.
* Lisense acceptance pops up – Click –‘I Accept’
* Specflow.Nunit: Click instal- specflow.Nunit installed
* Selenium.webdriver: Click instal- selenium.webdriver installed
* Selenium.support: Click instal – selenium support installed
* Selenium.webdriver.IEDriver: Click install - package installed
* Selenium.Firefox.Webdriver: Click install - package installed
* Selenium.Chrome.Webdriver: Click install - package installed

**-Nuget packages are installed at project level. Check the packages.config and App.config to confirm that you do not have more than one unitTestProvider.UnitTestProvide name = “Nunit”**

**CREATE FOLDER STRUCTURE**

On Solution Explorer-Right Click on Project >> Click Add >>New Project. The First folder will be //// Features Folder.

Right click on project - Click on Add >> New folder created. Click on New Folder - Rename the folder as PageObjects.

Right click on project >> Click on Add >> Click on New Folder //// Rename New Folder //// as StepDefinitions.

Right click on project >> Click on Add >> Click on New Folder //// Rename New Folder //// as Utilities.

**TO CREATE FIRST FEATURES FILE**

Right click on Features folder >> Click on Add >>Click on New Item. Under NuGet Solution >> Click on >> Add New Item) >> (Name it coursework)

Specflow Feature File

Type the name of the features file as login at the bottom space. Login.Features / login >> Then click on Add.

Right click on Features Folder >> Click on Add >> Click on Add >> Click on New Item

Type in the name of the next features file .i.e. Registration, then click on Add. A registration.feature file should be created.

A C# Registration features should be generated by default if it doesn’t, just right click on Registration.Features and click on Run custom tool and it will generate.

**Feature:** **Registration**

AS a user of the site

I Would like to register

SO that I can login to the site

**Scenario:** Navigation to the Registration Page

**GIVEN** I navigate to the site

**WHEN** I click on the register link

**THEN** The registration page is displayed

NOTE: Save the file so that you do not lose it.

Build the site by Right clicking on solution training >> Build Solution

After writing the steps

Right click on any of the purple words to generate StepDefinitions

Click generate, click desktop (where you keep your file) click on the folder Internship coursework, click on StepDefintions and click save Automatically the words will change to white C# HomepageProductInfoSteps.cs is created.

**UTILITIES:**

Right click on utilities >> Click Add >>New Item

Click on Specflow >> Specflow Hooks/event bindings

Rename it Hooks1 >> Click Add

Under the Utilities folder delect the information that you do not need.

* Write public static Iwebdriver.driver >> Click on Iwebdriver – using OpenQA.Selenium and the red line will clear away.
* Import (using Open QA.Selenium.Chrome; to remove the redline under ChromeDriver();
* I omitted driver before scenario so the driver below was on red when added the red line disapper.