Parallel Testing with Nunit for SpecFlow(Selenium C#)

Agenda for this document. To discuss about how to achieve **Parallel Testing** using NUnit for **SpecFlow (BDD framework)**- Cucumber for .NET.

Why we need parallel testing. There are several use of Parallel testing, In case of Selenium, parallel testing gives us many benefits like.

- o Cross -browser testing.
- o Less execution time (as the script gets segregated)
- o Testing with Different platforms using GRID many more.

Does NUnit supports Parallel testing: The answer to this question in a single word is **NO**. Till date it does not support parallel testing in true way ,but there are way we can achieve parallel execution with **NU**nit by creating **category** and with the help of **NU**nit console.

How to Do:

• Step1. Create category in Feature file. In Spec-flow which is a BDD framework from Selenium C# we need to create feature file and write the test case in ENGLISH-LIKE language called Gherkin, there in every feature file we need to mention "@CategoryName"

NOTE. Here @CategoryName can be anything relevant like @SmokeTest or @RegressionTest or @SuiteName.

Now when you build your project you can see **category wise segregation** in the **Test Explorer in Visual Studio**.

• **Step2**: Create a Batch file and call project .dll(compiled code) file for test execution **mentioning categories** by using **nunit-console like**.

nunit-console /result:TestResults1.xml pathToDllFile /include:CategoryName1 nunit-console /result:TestResults2.xml pathToDllFile /include:CategoryName2 nunit-console /result:TestResults3.xml pathToDllFile /include:CategoryName3

You will able to see parallel execution by category wise with multiple browser instances.