Testing using SpecFlow and Gherkin scenarios in C#

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Overview

In this tutorial, we will create some test scenarios in SpecFlow using C#.

Similarly to Cucumber, SpecFlow is mainly a collaboration framework used in BDD context in order to improve shared understanding within the team, usually during "3 Amigos" sessions. That's its main fit.

However, some teams use it in other contexts (e.g. after sofware has being built) for implementing automated tests and take advantage of Gherkin syntax to have visibility/abstraction of the underlying automation code and have reusable automation code.

(Test) Scenarios derived from SpecFlow are executable specifications; their statements will have a corresponding code implementation. These test scenarios are feature and more business oriented; they're not unit/integration tests.

Your specification is made using Gherkin (i.e. Given, When, That) statements in Scenario(s) or Scenario Outline(s), eventually complemented with a Background. Implementation of each Gherkin statement (i.e. "step") is done in code; the SpecFlow framework finds the code based on regular or cucumber expressions.

Source-code for this tutorial

Code is available in GiHub; the repo contains some auxiliary scripts.

Usage scenarios

Tools such as Cucumber or SpecFlow are used in diverse scenarios. Next you may find some usage patterns, even though SpecFlow usage is mostly recommended only if you are adopting BDD.

- 1. Teams adopting BDD, start by defining a user story and clarify it using Gherkin Scenario(s); usualy, Gherkin Scenario(s)/Scenario Outline(s) are specified directly in Jira, using Xray
- Teams adopting BDD but that favour a more Git based approach (e.g. GitOps). In this case, stories would be defined in Jira but Gherkin .feature files would be specified using some IDE and would be stored in Git, for example
- Teams not adopting BDD but still using SpecFlow, more as an automation framework. Sometimes focused on regression testing; sometimes, for non-regression testing. In this case, SpecFlow would be used...
 - a. With a user story or some sort of "requirement" described in Jira
 - b. Without any story/"requirement" described in Jira

You may be adopting, or aiming to, one of the previous patterns.

Before moving into the actual implementation, we need to decide which workflow we'll use: do we want to use Xray/Jira as the master for writing the declarative specification (i.e. the Gherkin based Scenarios), or do we want to manage those outside using some editor and store them in Git, for example?

Learn more

Please see Testing in BDD with Gherkin based frameworks (e.g. Cucumber) for an overview of the possible workflows.

The place that you'll use to edit the SpecFlow Scenarios will affect your workflow. There are teams that prefer to edit Scenarios in Jira using Xray, while there others that prefer to edit them by writing the .feature files by hand using some IDE.

Example

For the purpose of this tutorial, we'll use a simple dummy Calculator implemented in a C# class as our target for testing.

The code is structure in two projects: one that we will be targeted by testing and one with the test code and SpecFlow.

(i) Try it yourself!

The code on this tutorial is available in the tutorial-csharp-specflow GitHub repository.

You can fork it, adapt, and try it for youself.

Calculator.cs

```
namespace SpecFlowExamples
{
   public class Calculator
    {
        public int FirstNumber { get; set; }
        public int SecondNumber { get; set; }
        public int Add()
        {
            return FirstNumber + SecondNumber;
        }
        public int Subtract()
        {
            return FirstNumber - SecondNumber;
        }
        public int Divide()
        {
            if (FirstNumber == 0 || SecondNumber == 0)
            {
                return 0;
            }
            else
            {
                return FirstNumber / SecondNumber;
            }
        }
        public int Multiply()
        {
            return FirstNumber * SecondNumber;
        }
    }
}
```

Requirements

- .NET 5.0 (.NET 6.0 is not supported by SpecFlow together with the SpecFlow+ Runner)
- mono (SpecFlow reporting utility requires mono)

```
    Packages
```

- ^o SpecFlow <= 3.9.40
 - SpecRun.SpecFlow <= 3.9.31
 - FluentAssertions

(i)	Please note
	To generate the Cucumber compatible JSON report that Xray is able to process, we need to use the "SpecFlow+ Runner" test runner, which supports .Net Core up to .NET 5.0, and take advantage of the possibility of generating custom reports (more detail ahead).
	Meanwhile, in January 2021 the SpecFlow team decided to end up with development of the "SpecFlow+ Runner" test runner. That means that the "SpecFlow+ Runner" package is avaiable for .NET up to version 5.0 but it is no longer maintained. Additionally, this runner is not available for .NET 6.0, meaning that for .NET 6.0 there is no way of generating Cucumber JSON reports, as the supported test runners (e.g., NUnit, xUnit, MSTest) don't support it; if using SpecFlow and integrating it with Xray, or any other tool that uses Cucumber JSON reports, is important to you, then you should reach out SpecFlow team.
	If you use NUnit, xUnit, or MSTest as test runners, then SpecFlow isn't able of generating Cucumber JSON reports.

Using Jira and Xray as master

This section assumes using Xray as master, i.e. the place that you'll be using to edit the specifications (e.g. the scenarios that are part of .feature files).

The overall flow would be something like this, assuming Git as the source code versioning system:

- 1. define the story (skip if you already have it)
- 2. create Scenario/Scenario Outline as a Test in Jira; usually, it would be linked to an existing "requirement"/Story (i.e. created from the respective issue screen)
- 3. implement the code related to Gherkin statements/steps and store it in Git, for example. To start, and during development, you may need to generate/export the .feature file to your local environment
- 4. commit previous code to Git
- 5. checkout the code from Git
- 6. generate .feature files based on the specification made in Jira
- 7. run the tests in the CI
- 8. obtain the report in Cucumber JSON format
- 9. import the results back to Jira



Note that steps (5-9) performed by the CI tool are all automated, obviously.

To generate .feature file(s) based on Scenarios defined in Jira (i.e. "Cucumber" Tests and Preconditions), we can do it directly from Jira, by the REST API or using a CI tool; we'll see that ahead in more detail.

All starts with a user story or some sort of "requirement" that you wish to validate. This is materialized as a Jira issue and identified by the corresponding issue key (e.g. CALC-7931).

Xray Tutorials As a use	/ xT-356 r, I can calculate th	he sum of two n	umbers		
Sedit Q Comm	ent Assign More •	To Do In Progress	Done A	Admin 🖌	
✓ Details					
Туре:	Story			Status:	TO DO (View Workflow)
Priority:	O Trivial			Resolution:	Unresolved
Labels:	None				
Requirement Status	UNCOVERED				
 Description 					
Click to add descrip	tion				
 Test Coverage 					
No Tests were found	testing the requirement.				
Add Tests ~	•				

We can promptly check that it is "UNCOVERED" (i.e. that it has no tests covering it, no matter their type/approach).

In this case, we'll create a Cucumber Test, of Cucumber Type "Scenario".

We can fill out the Gherkin statements immediately on the Jira issue create dialog or we can create the Test issue first and fill out the details on the next screen, from within the Test issue. In the latter case, we can take advantage of the built-in Gherkin editor which provides auto-complete of Gherkin steps.

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🖋 Edit	Q Comment	Assign	More 🗸	To Do	In Progress	Done	Admin 🗸	
✓ Details								
Type:		Test				Status:		TO DO (View Workflow)
Priority:	C	Trivial				Resolution:		Unresolved
Labels:	N	one						
Descript Click to a	t ion add description							
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Type:	Cu	ucumber						
Scenario	Type: So	cenario						
Scenario	: G ⁻ Ar Wi Ti	iven I hav nd I have hen I pres hen the re	re entered also ente s add sult shou	1 into red 2 i	the calcunto the ca	lator lculator reen		



After the Test is created, and since we have done it from the user story screen, it will impact the coverage of related "requirement"/story.

The coverage and the test results can be tracked in the "requirement" side (e.g. user story). In this case, you may see that coverage changed from being UNCOVERED to NOTRUN (i.e. covered and with at least one test not run).

Xray Tutorials As a user	xt-356 I can calcul	late the sum o	of two numb	pers			
Sedit Q Commo	nt Assign N	More 👻 To Do	In Progress Don	e Admin 🗸			
 Details 							
Туре:	Story			Status:	TO DO (View Workflow)		
Priority:	O Trivial			Resolution:	Unresolved		
Labels:	None						
Requirement Status:	ΝΟΤΙ	RUN	F				
 Description Click to add descript 							
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Add Tests x Ex							
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TEST COVERAGE FOR	THE FOLLOWING ANAL	LYSIS SCOPE					
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scope: version,	version: None - la	test execution; Envi	onment: All Enviro	minerits •			
Ţ Filter(s)							
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0 T	DO Un	nresolved	XT-357	simple integer addition		торо	

Additional tests could be created, eventually linked to the same Story.

The related statement's code is managed outside of Jira and stored in Git, for example.

Our target "application" to test, is in fact a simple Calculator class, stored and managed under the Calculator project directory.

The tests related code is stored under Calculator. Specs project directory, which itself contains several other directories. In this case, they're organized as follows:

- TestResults/: where the test result reports will ge created.
- Steps/: step implementation files. The steps "glue-code" is defined in CalculatorStepDefinitions.cs class.

Calculator.Specs/Steps/CalculatorStepDefinitions.cs

```
using System;
using FluentAssertions;
using TechTalk.SpecFlow;
namespace SpecFlowExamples.Specs.Steps
{
    [Binding]
   public sealed class CalculatorStepDefinitions
    {
       private int _result;
       private Calculator _calculator = new Calculator();
       [Given(@"I have entered (.*) into the calculator")]
       public void GivenIHaveEnteredIntoTheCalculator(int number)
        {
            _calculator.FirstNumber = number;
        }
        [Given(@"I have also entered (.*) into the calculator")]
       public void GivenIHaveAlsoEnteredIntoTheCalculator(int number)
        {
            _calculator.SecondNumber = number;
        }
        [When(@"I press add")]
       public void WhenIPressAdd()
        {
            _result = _calculator.Add();
        }
       [Then(@"the result should be (.*) on the screen")]
       public void ThenTheResultShouldBeOnTheScreen(int expectedResult)
        {
            // Assert.AreEqual(expectedResult, result);
            _result.Should().Be(expectedResult);
       }
    }
}
```

You can then export the specification of the test to a Gherkin .feature file via the REST API, or the **Export to Cucumber** UI action from within the Test /Test Execution issue or even based on an existing saved filter. As source, you can identify Test, Test Set, Test Execution, Test Plan or "requirement" issues. A plugin for your CI tool of choice can be used to ease this task.

So, you can either:

• use one of the available CI/CD plugins (e.g. see details of Integration with Jenkins)

	x	ray: Cucumbe	r Features Export Task
		Jira Instance	xray-vm
		Issues:	XT-356
		Filter:	
		File Path:	Calculator.Specs/Features
0			Click here for more details
	COT /		

use the REST API directly (more info here)

```
° #!/bin/bash
```

```
rm -f Features/*.feature Features/*.cs
curl -u admin:admin "http://jiraserver.example.com/rest/raven/1.0/export/test?keys=XT-
356&fz=true" -o features.zip
unzip -o features.zip -d Features
```

• ... or even use the UI (e.g. from the Story issue)

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 Details 								
Type:	Story					Status:	TO DO (View Workflow)	
Priority:	O Trivial					Resolution:	Unresolved	
Labels:	None							
Labels: Requirement Si Description Click to add de	None atus:	NOTRUN						
Labels: Requirement Si Description Click to add de Test Coverage	None atus:	NOTRUN						
Labels: Requirement Si Description Click to add de Test Coverage Add Tests ~	None tatus: scription Execute v	NOTRUN						

We will export the features to a new directory named Features/ on the root folder of your C# testing-dedicated project.

After being exported, the created .feature(s) will contain references to the Test issue key, eventually prefixed (e.g. "TEST_") depending on an Xray global setting, and the covered "requirement" issue key, if that's the case. The naming of these files is detailed in Export Cucumber Features.

features/1_XT-356.feature

@REQ_XT	-356										
Feature	: As a u	ser, I can cal	culate the	e sum of tw	vo numbers	5					
	ome om v										
<pre>@REQ_XT-355 Feature: As a user, I can calculate the sum of two numbers @TEST_XT-359 @XT-355 Scenario Outline: sum of two positive numbers Given I have entered <input_1> into the calculator And I have also entered <input_2> into the calculator When I press <button> Then the result should be <output> on the screen Examples: input_1 input_2 button output 20 30 add 50 2 5 add 7 0 40 add 40 4 50 add 55 @TEST_XT-358 @XT-355 Scenario: negative integer addition Given I have entered -1 into the calculator And I have also entered 2 into the calculator When I press add Then the result should be 1 on the screen</output></button></input_2></input_1></pre>											
	SCEIIALI	Given T have	ontered ci	nout 15 ir	ubers	laulator					
		And T have al	so entered	cinput 2	into the	calculat	tor				
		When I press	<pre>>button></pre>	(input_2)	11100 0110	curcuru					
Then the result should be <output> on the screen</output>											
	Then the result should be <output> on the screen</output>										
		Examples:									
			input_1	input_2	button	output					
			20	30	add	50					
			2	5	add	7					
			0	40	add	40					
			4	50	add	54					
			5	50	add	55					
	@TEST_X	'I'-358 @X'I'-355									
	Scenari	o: negative ir	iteger addi	tion							
		Given i nave	encerea -1	l linto tile	carcurate						
		When T press	add		le carcura	LUI					
		Then the resi	lt should	be 1 on th	e screen						
		Inch the rest	ite Shourd		ic sereen						
	@TEST_X	T-357 @XT-355									
<pre>@REQ_XT-355 Feature: As a user, I can calculate the sum of two numbers @TEST_XT-359 @XT-355 Scenario Outline: sum of two positive numbers Given I have entered <input_1> into the calculator And I have also entered <input_2> into the calculator When I press <button> Then the result should be <output> on the screen Examples:</output></button></input_2></input_1></pre>											
		Given I have	entered 1	into the d	calculator						
		And I have al	so entered	l 2 into th	ne calcula	tor					
		When I press	add								
		Then the resu	lt should	be 3 on th	ne screen						

Before compiling and running the tests, you have to use a proper SpecFlow report template file in order to generate a valid Cucumber JSON report and you have to configure the SpecFlow+ Runner profile (e.g., Default.srprofile) to use it.

Default.srprofile

```
<?xml version="1.0" encoding="utf-8"?>
<TestProfile xmlns="http://www.specrun.com/schemas/2011/09/TestProfile">
<Settings name="dummy" projectName="Calculator.Specs" />
<Execution stopAfterFailures="3" testThreadCount="1" testSchedulingMode="Sequential" />
<TestAssemblyPaths>
<TestAssemblyPath>Calculator.Specs.dll</TestAssemblyPath>
</TestAssemblyPaths>
<Report copyAlsoToBaseFolder="false">
<Template name="../../../CucumberJson.cshtml" outputName="cucumber.json" existingFileHandlingStrategy="
Overwrite" />
</TestProfile>
</TestProfile>
```

"SpecFlow+ Runner" supports customizable reports and provides a report template tailored for the generation of Cucumber JSON reports. You can can copy it from your local packages directory (e.g., .nuget/packages/specrun.runner/3.9.31/templates/CucumberJson.cshtml) to your test project directory. This template has changed slightly with SpecFlow 3, so please make sure you use the proper one for your scenario.

CucumberJson.cshtml

```
@inherits SpecFlow.Plus.Runner.Reporting.CustomTemplateBase<TestRunResult>
@using System
@using System.Collections.Generic
@using System.Linq
@using System.Globalization
@using Newtonsoft.Json
@using Newtonsoft.Json.Converters
@using TechTalk.SpecRun.Framework
@using TechTalk.SpecRun.Framework.Results
@using TechTalk.SpecRun.Framework.TestSuiteStructure
@using TechTalk.SpecRun.Framework.Tracing
@{
   var serializationSettings = new JsonSerializerSettings
   {
       ReferenceLoopHandling = ReferenceLoopHandling.Ignore,
       Converters = new List<JsonConverter>() { new StringEnumConverter(false) }
   };
   var features = GetTextFixtures()
        .Select(f => new
        {
           description = "",
            elements = (from scenario in f.SubNodes
                        let lastExecutionResult = GetTestItemResult(scenario.GetTestSequence().First()).
LastExecutionResult()
                        select new
                        {
                            description = "",
                            id = "",
                           keyword = "Scenario",
                           line = scenario.Source.SourceLine + 1,
                            name = scenario.Title,
                            tags = scenario.Tags.Select(t => new { name = t, line = 1 }),
                            steps = from step in lastExecutionResult.Result.TraceEvents
                                    where IsRelevant(step) && (step.ResultType == TestNodeResultType.Succeeded
|| step.ResultType == TestNodeResultType.Failed || step.ResultType == TestNodeResultType.Pending)
                                    && (step.Type == TraceEventType.Test || step.Type == TraceEventType.TestAct
|| step.Type == TraceEventType.TestArrange || step.Type == TraceEventType.TestAssert)
                                    let keyword = step.StepBindingInformation == null ? "" : step.
StepBindingInformation.StepInstanceInformation == null ? "" : step.StepBindingInformation.
StepInstanceInformation.Keyword
                                    let matchLocation = step.StepBindingInformation == null ? "" : step.
StepBindingInformation.MethodName
                                    let name = step.StepBindingInformation == null ? "" : step.
StepBindingInformation.Text
                                    let cucumberStatus = step.ResultType == TestNodeResultType.Succeeded ?
"Passed" : step.ResultType.ToString()
                                    select new
                                    {
                                        keyword = keyword,
                                        line = 0,
                                        match = new
                                        {
                                            location = matchLocation
                                        },
                                        name = name,
                                        result = new
                                        {
                                            duration = step.Duration.TotalMilliseconds,
                                            error_message = step.StackTrace,
                                            status = cucumberStatus
                                        }
                                    },
                            type = "scenario"
                        }).ToList(),
           id = "",
           keyword = "Feature",
            line = f.Source.SourceLine + 1,
```

```
tags = f.Tags.Select(t => new { name = t, line = 1 }),
name = f.Title,
uri = f.Source.SourceFile
});
}
@Raw(JsonConvert.SerializeObject(features, Formatting.Indented, serializationSettings))
```

Tests can be run from within the IDE (e.g. Visual Studio) or by the command line using dotnet, for example; in the later case, make sure to specify the profile name and all the paths properly.

To run the tests and produce a Cucumber JSON report, we can use dotnet, for example.

dotnet clean dotnet test

This will produce one Cucumber JSON report with all results.

After running the tests, results can be imported to Xray via the REST API, or the **Import Execution Results** action within an existing Test Execution, or by using one of the available CI/CD plugins (e.g. see an example of Integration with Jenkins).

example of a Bash sc	ript to impor	t results using t	he standard	Cucumber e	ndpoint
----------------------	---------------	-------------------	-------------	------------	---------

curl -	·Η	"Content-Type:	application,	/json"	-X POST	-u	admin:admir	ıdata	@"TestResults,	/cucumber.	json'
http:/	//-	jiraserver.exam	ple.com/rest	/raven/	2.0/impo	ort	/execution/d	cucumber			

Post-build Actions

Xray: Results In	nport Task	
Jira iristarice	xray-vm	
Format	Cucumber JSON	
Parameters	Execution Report File (file path with file name)	Calculator.Specs/TestResults/cucumber.json
	Import in parallel	0
		Import all results files in parallel, using all available CPU cores.

Which Cucumber endpoint to use?
 To import results, you can use two different endpoints/"formats" (endpoints described in Import Execution Results - REST):

 the "standard cucumber" endpoint
 the "multipart cucumber" endpoint
 the "multipart cucumber" endpoint (i.e. */import/execution/cucumber*) is simpler but more restrictive: you cannot specify values for custom fields on the Test Execution that will be created. This endpoint creates new Test Execution issues unless the Feature contains a tag having an issue key of an existing Test Execution.

 The multipart cucumber endpoint will allow you to customize fields (e.g. Fix Version, Test Plan), if you wish to do so, on the Test Execution that will be created. Note that this endpoint always creates new Test Executions (as of Xray v4.2).
 In sum, if you want to customize the Fix Version, Test Plan and/or Test Environment of the Test Execution issue that will be created, you'll have to use the "multipart cucumber" endpoint.

A new Test Execution will be created (unless you originally exported the Scenarios/Scenario Outlines from a Test Execution).

Ex	ay Tutorials / 3 Recution I	xT-363 r esults [1	645187	64062	:5]									
🖋 Edit	Q Comment	Assign	More 🗸	To Do Ir	n Progress	Done	Admin 🗸							
✓ Details														
Type: Priority: Labels: Test Plar Test Envi	i: ironments:	Test Exec O Trivial None None None	ution					Status: Resolution:		TO DO (View Unresolved	v Workflow)			
Descript Click to a	ion add descriptior	1												
✓ Tests Add Te	sts 🗸													
J PAS	S s: 3													
Ŧ	Filter(s)													
· ~	Apply Rank	A Key	Summary			Test Type	#Reg	u #Def	Assid	1066	Dataset	Show 100 v entries	Columr	IS 🕶
	3	XT-357	simple intege	r addition		Cucumber	1	0	Xpar	nd IT Admin		DASS		
	2	XT-358	negative integ	ger addition	I	Cucumber	1	0	Xpar	nd IT Admin		PASS		
	1	XT-359	sum of two p	ositive num	bers	Cucumber	1	0	Xpar	nd IT Admin		PASS		

The execution screen details of the Test Run will provide overall status information and Gherkin statement-level results.

Results, including for each example on Scenario Outline, can be expanded to see all Gherkin statements.

ray Tutoria	als / Test Execution: XT-363 / Test: XT-359 two positive numbers			ų	Import Execution Results	Export to Cucumber	A Return to Test Execution	Next ▶
Tes	ST Details CUCUMBER SCENARIO OUTLINE							
^ Cu	ustom Fields							
Then	e are no Test Run Custom Fields defined.							
> Te	st Description							
> Te	st Issue Links 🜖							
Test	Type: Cucumber							
Scen	ario Type: Scenario Outline							
	4 Then the result should 5 6 Examples: 7 input_1 8 20 9 2 10 0 11 4 12 5	d be <output> on the screen input_2 button output 30 add 50 5 add 7 40 add 7 50 add 55 50 add 55 </output>						
∧ Ex	amples							
	<input_1></input_1>	<input_2></input_2>	<button></button>	<output></output>		Dura	tion Status	
	20	30	add	50		0.000	ms PASS	
	Steps							
	Given I have entered 20 into the calculator					0.000	ms PASS	
	And I have also entered 30 into the calculator					0.000	ms PASS	
	When I press add					0.000	ms PASS	
	Then the result should be 50 on the screen					0.000	ms PASS	
	2	5	add	7		0.000	ms PASS	
	0	40	add	40		0.000	ms PASS	
	4	50	add	54		0.000	ms PASS	
	5	50	add	55		0.000	ms PASS	

Results are reflected on the covered items (e.g. Story issues) and can be seen in ther issue screen.

Coverage now shows that the addition related user story (e.g. XT-356) is OK based on the latest testing results.



Using Git or other VCS as master

You can edit your .feature files using your IDE outside of Jira (eventually storing them in your VCS using Git, for example) alongside with remaining test code.

In any case, you'll need to synchronize your .feature files to Jira so that you can have visibility of them and report results against them.

The overall flow would be something like this:

- 1. look at the existing "requirement"/Story issue keys to guide your testing; keep their issue keys
- specify SpecFlow/Gherkin .feature files in your IDE supporting SpecFlow/Gherkin and store it in Git, for example. Meanwhile, you may decide to import/synchronize them Xray to provision or update corresponding Test and/or Precondition entities
- 3. implement the code related to Gherkin statements/steps and store it in Git, for example.
- 4. commit code and .feature file(s) to Git
- 5. checkout the code from Git
- 6. import/synchronize the .feature files to Xray to provision or update corresponding Test and/or Precondition entities
- 7. export/generate feature files from Jira, so that they contain references to Tests and requirements in Jira
- 8. run the tests in the CI
- 9. obtain the report in Cucumber JSON format
- 10. import the results back to Jira



Note that steps (5-10) performed by the CI tool are all automated, obviously.

To import .features to Jira we can either use the REST API or a CI tool. To export tagged .features from Jira, we can do it directly from Jira, by the REST API or using a CI tool.

Learn more

Please check the tutorial Testing using Cucumber in Java which showcases this flow for Cucumber+Java and adapt it accordingly to the SpecFlow use case.

FAQ and Recommendations

Please see this page.

References

- Code used in this tutorial, along with some auxiliary scripts
 SpecFlow documentation
 Testing in BDD with Gherkin based frameworks (e.g. Cucumber)
 Automated Tests (Import/Export)
 Exporting Cucumber Tests REST
 https://github.com/SpecFlowOSS/SpecFlow-Examples