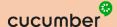
Specflow vs Cucumber



specflow

Feature File

File Name: loginToGmail.feature

Feature: Login to gmail Acccount

Scenario: Valid Users

Given: I am on gmail Login Page

When: Enter username and password

And: Click on Login button

Then: User should be redirected to HomePage

And: welcome message is displayed with first Name

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When Enter username and password

And Click on Login button

Then User should be redirected to Home Page

And welcome message is displayed with first Name

Step Definition File

```
File Name: loginTOGmail.java
public class loginToGmail {
@Given("^I am on gmail Login Page$")]
public void launchGmailLogin(){
//...
@When("^Enter username and password$")]
public void enterUserNamePassword(){
//...
@When("^Click on Login button$")]
public void clickOnLoginButton(){
//...
@Then("^User should be redirected to HomePage$")]
public void verifyHomepage(){
//...
@Then("^welcome message is displayed with first
Name$")1
public void verifyWelcomeMessage(){
//...
```

```
File Name: loginTOGmail.cs
[Binding]
public class loginToGmail {
[Given(@"I am on gmail Login Page")]
public void launchGmailLogin(){
//...
}
[When(@"Enter username and password")]
public void enterUserNamePassword(){
//...
}
[When(@"Click on Login button")]
public void clickOnLoginButton(){
//...
[Then(@"User should be redirected to HomePage")]
public void verifyHomepage(){
//...
}
[Then(@"welcome message is displayed with first
public void verifyWelcomeMessage(){
//...
}
```

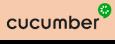
Specflow vs Cucumber specflow cucumber Parameterization - Feature File Parameterization - Examples Scenario Outline: Various Valid Users Scenario Outline: Various Valid Users Given: I am on gmail Login Page Given I am on gmail Login Page When: Enter "<username>" and "<password>" When Enter <username> and <password> And: Click on Login button And Click on Login button Examples: Examples: username | password username | password | username1 | password1 username1 password1 username2 | password2 | username2 | password2 | @When("^Enter \"(.*)\" and \"(.*)\"\$")] [When(@"Enter (.*) and (.*)")] public void enterUserNamePassword(String uName, public void enterUserNamePassword(String uName, String passwd){ String passwd){ //... //... Parameterization – Table Scenario: Various Valid Users Scenario: Various Valid Users Given: I am on gmail Login Page Given I am on gmail Login Page When: Enter the user name and password When Enter the user name and password | Username | Password | | Username | Password | username1 | password1 | username1 | password1 | username2 | password2 | username2 password2 And: Click on Login button And Click on Login button @When("^Enter the user name and password\$") [When(@"Enter the user name and password")] public void enterUserNamePassword(DataTable public void enterUserNamePassword(Table table) table){ { List<List<String>> data= table.row(0); foreach (var row in table.Rows){ username = data.get(0).get(0) dictionary.Add(row[0], row[1]); passwd= data.get(0).get(1); address.Line1 = table.Rows[0]["Username"]; List<List<String>> data= table.asList(); address.Line1 = table.Rows[0]["Password "]; username = data.get(0).get(0) For(int i=0; i<table.RowCount;i++){</pre> passwd= data.get(0).get(1); String Text = table.Rows[i]["UserName"] List<Map<String,String>> data= String Text = table.Rows[i]["Password"] table.asMap(String.class, String.class); username = data.get(0).get('userName'); passwd= data.get(1).get('password'); Table.ContainsColumn("Password") _____ SpecFlow Assist Helpers (techTalk.specflow.assit) var account = table.CreateInstance<Account>(); var products = table.CreateSet<Product>();

Specflow vs Cucumber

cucumber	specflow
	IEnumerable <dynamic> credentials =</dynamic>
	<pre>table.CreateDynamicSet(); foreach(var users in credentials){</pre>
	}
	<pre>IEnumerable <dynamic> credentials = table.CreateDynamicInstance();</dynamic></pre>
	<pre>foreach(var users in credentials){ } }</pre>
	Set
	<pre>ScenarioContext.Current["UserName"] = UserName1 ScenarioContext.Current.Add("UserName",UserName1);</pre>
	<pre>Get Var uname= ScenarioContext.Current["UserName1"]; Var uname=</pre>
	<pre>ScenarioContext.Current.Get<int>("UserName");</int></pre>
	Data can be share between Steps by using Context Injection
Hooks	
<pre>@Before(Order = 2) public void Before2() { Run before executing each scenario</pre>	<pre>[BeforeTestRun(Order = 1)] public static void BeforeTestRun1(){ }</pre>
}	<pre>[BeforeTestRun(Order = 2)] public static void BeforeTestRun2(){ }</pre>
<pre>@Before(Order = 1) public void Before1() {</pre>	[AfterTestRun]
Run before executing each scenario }	<pre>public static void AfterTestRun(){ }</pre>
<pre>@After public void After() {</pre>	<pre>[BeforeFeature] public static void BeforeFeature(){ }</pre>
Run after executing each scenario }	<pre>[AfterFeature] public static void AfterFeature(){ }</pre>
***Order can be used in the cook hook	<pre>[BeforeScenario] [Before] public void BeforeScenario(){ }</pre>
	<pre>[AfterScenario] [Before] public void AfterScenario(){ }</pre>
	<pre>[BeforeScenarioBlock] public void BeforeScenario(){ }</pre>
	<pre>[AfterScenarioBlock] public void AfterScenario(){ }</pre>
	<pre>[BeforeStep] public void BeforeStep(){ }</pre>

Specflow vs Cucumber cucumber specflow [AfterStep] public void AfterStep(){ ... } ***Order can be used in all the hook Tag @SmokeTest @RegressionTest @DNA @SmokeTest @RegressionTest @DNA Scenario: Successful Login Scenario: Successful Login Given: This is a blank test Given This is a blank test @RegressionTest @DNA @RegressionTest @DNA Scenario: UnSuccessful Login Scenario: UnSuccessful Login Given: This is a blank test Given This is a blank test @SmokeTest @DNA @SmokeTest @DNA Scenario: Add a product to bag Scenario: Add a product to bag Given: This is a blank test Given This is a blank test Run App.config package cucumberJava; import org.junit.runner.RunWith; <specFlow> import cucumber.junit.Cucumber; <unitTestProvider name="MsTest" /> @RunWith(Cucumber.class) </specFlow> @Cucumber.Options(plugin = {"pretty", "html:Folder_Name", Test | Windows | Test Explorer "json:Folder Name/cucumber.json", Test Explorer "junit:Folder_Name/cucumber.xml" [Search features = {"src/test/features"}, glue = "src/test/stepDeinition" Run All | Run... ▼ | Playlist : All Tests ▼ tags = {"@SmokeTest"} monochrome=true ■ Calculator (1) strict=false Add two numbers in Calculator public class runTest { MonoChrome - readable console output **Strict**-skip undefined steps from execution (default-false) (Include plugin in POM.xml) C:>> mstest.exe <plugin> /testcontainer:c:\test\test.UI.dll <groupId>org.apache.maven.plugins /resultfile:c:\test\result.trx <artifactId>maven-compiler-plugin</artifactId>... </plugin> trx >> xml format mvn clean install mvn test mvn test -Dcucumber.options= "src/test/resources/functionalTests/End2End Tests. feature"

Specflow vs Cucumber



specflow

mvn test -Dcucumber.options='--tags "@smoke and
@fast"'

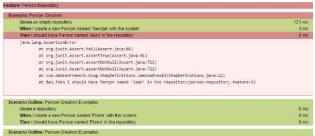
mvn -Dtest=RunnerTest test (running Junit class)

Report

<u>HTML</u>

Feature Result for Build: 1

Feature		Scenario	9	Steps						
	Total	Passed	Failed	Total	Passed	Failed	Skipped	Pending	Duration	Status
Person Repository	4	3	1	12	11	1	0	0	126 ms	tailed



<u>JSON</u>

cucumber-reporting

<groupId>net.masterthought</groupId>
<artifactId>cucumber-reporting</artifactId>

Features Statistics

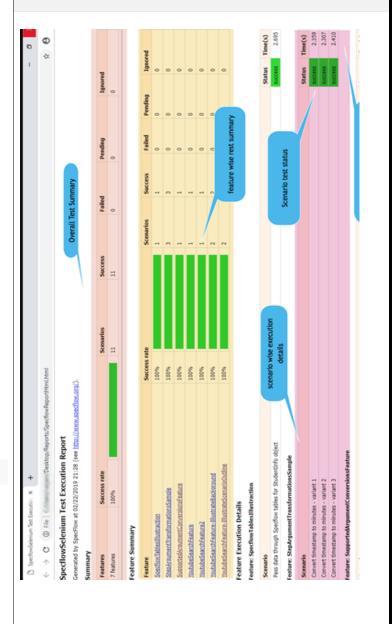


		Steps						enarios		Features		
Feature	Passed	Failed	Skipped	Pending	Undefined	Total	Passed	Failed	Total	Duration	Status	
1st feature	10	0	0	0	0	10	- 1	0	1	1m 39s 263ms	Passed	
Second feature	5	1	2	1	2	11	1	1	2	092ms	Falled	
2	15	1	2	1	2	21	2	1	3	1m 39s 355ms		
	71.43%	4.76%	9.52%	4.76%	9.52%		66.67%	33.33%			50.00%	

HTML /XML

specflow.exe stepdefinitionreport SpecFlowTalk.csproj
/BinFolder:bin/debug /out:myTestResult.html

XML>>> /BinFolder:bin\debug /out:TestResult.xml



Specflow vs Cucumber cucumber specflow **Scope Binding** [Scope(Tag = "mytag", Feature = "feature title", Scenario = "scenario title")] [When(@"I perform a simple search on '(.*)'", Scope(Tag = "controller"))] public void WhenIPerformASimpleSearchOn(string searchTerm) var controller = new CatalogController(); actionResult = controller.Search(searchTerm); [When(@"I perform a simple search on '(.*)'"), Scope(Tag = "web")] public void PerformSimpleSearch(string title) selenium.GoToThePage("Home"); selenium.Type("searchTerm", title); selenium.Click("searchButton");