



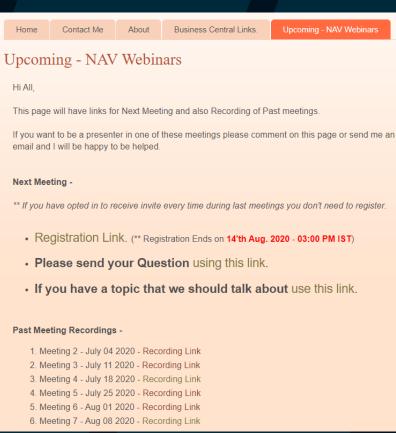
Participation





Where Do I Register?

Register Here –
 https://bit.ly/bcopendiscussion







Don't Need to Register.

No.	First Name	Last Name	
1	Steve	Endow	
2	Jignesh	Dhandha	
3	Amandeep	Sharma	
4	tanya	kharbanda	
5	Nishant	Srivastava	
6	Shahid	Ullah	
7	Keshav	Srivastav	
8	Nitin	Verma	
9	Manish	Ratan	
10	Kiran	Deore	

No.	First Name	Last Name	
11	Bandaru	Srinivasulu	
12	Pravin	Dangar	
13	Jyotsna	Oberai	
14	Veeraprasad	Kurupalli	
15	Anil	Pandey	
16	Kumar	Gaurav	
17	DhanRaj	Bansal	
18	Gerardo	Daniel	
19	Radheshyam	Shukla	



Automated Testing.

Why Not?

- Developers & Testing?
- Customer Should Test?
- Cost?
- Resources?

Why?

- Same Time and Cost.
- Fast To Execute.
- Reusable.
- Easy To use.



GIVEN-WHEN-THEN Tags

GIVEN

set of Preconditions.

WHEN

· an event occur.

THEN

What outcome is expected.



How Do I Setup Environment?

		Import-TestToolkitToBcContainer	
Untitled	1.ps1 saascontainercommand_o.ps1* X		
1 2 3	tainerName = 'sauravbcsaas' dential = Get-Credential -Message 'Using UserPassword authentication. Please enter credentials for the container.' 1 = 'UserPassword' Name: Import-TestToolkitToBcContainer Module: BcContainerHelper (Import-destToolkitToBcContainer) Parameters for "Import-TestToolkitToBcContainer":		
4	<pre>\$artifactUrl = Get-BcArtifactUrl -type 'Sandbox' -version '' -country 'us' -select 'Latest'</pre>	containerName: Temp	
5	<pre>\$licenseFile = 'd:\docker\my.flf'</pre>	credential:	
6		☐ doNotUpdateSymbols	
7	-accept_eula`	☐ doNotUseRuntimePackages	
8	-containerName \$containerName `	ImportAction:	
9	-credential \$credential `	includePerformanceToolkit	
10	-auth Sauth `	includeTestFrameworkOnly	
11	-artifactUr] \$artifactUrl `	✓ includeTestLibrariesOnly	
12	-imageName 'saasimage' `	replaceDependencies:	
13	-assignPremiumPlan `		
14	-includeTestToolkit `	scope:	
15	-includeTestLibrariesOnly \	sqlCredential:	
16	-licenseFile \$licenseFile `	testToolkitCountry:	
17	-memoryLimit 4G `	useDevEndpoint	
18	-updateHosts		
10		Common Parameters	



#bcopendiscussion

Non-Docker Setup?

- Install Following Extension (minimum)
 - Microsoft_Any
 - Microsoft_Library Assert
 - Microsoft_Test Runner
 - Microsoft_System Application Test Library
 - Microsoft_Tests-TestLibraries

Name	Date modified	Туре	Size
■ Microsoft_Library-NoTransactions	05/03/20 5:38 PM	APP File	13 KB
☑z Microsoft_Tests-Bank	05/03/20 5:17 PM	APP File	139 KB
☑z Microsoft_Tests-Cash Flow	05/03/20 5:17 PM	APP File	89 KB
Microsoft_Tests-Cost Accounting	05/03/20 5:17 PM	APP File	112 KB
Microsoft_Tests-CRM integration	05/03/20 5:17 PM	APP File	217 KB
Microsoft_Tests-Data Exchange	05/03/20 5:17 PM	APP File	87 KB
Microsoft_Tests-Dimension	05/03/20 5:17 PM	APP File	197 KB
Microsoft_Tests-ERM	05/03/20 5:17 PM	APP File	1,997 KB
Microsoft_Tests-Fixed Asset	05/03/20 5:17 PM	APP File	136 KB
Microsoft_Tests-General Journal	05/03/20 5:17 PM	APP File	132 KB
Microsoft_Tests-Graph	05/03/20 5:17 PM	APP File	227 KB
Microsoft_Tests-Integration	05/03/20 5:17 PM	APP File	128 KB
Microsoft_Tests-Invoicing	05/03/20 5:17 PM	APP File	124 KB
☑z Microsoft_Tests-Job	05/03/20 5:17 PM	APP File	242 KB
Microsoft_Tests-Local	05/03/20 5:17 PM	APP File	570 KB
Microsoft_Tests-Marketing	05/03/20 5:17 PM	APP File	186 KB
Microsoft_Tests-Misc	05/03/20 5:18 PM	APP File	653 KB
Microsoft_Tests-Permissions	05/03/20 5:17 PM	APP File	56 KB
Microsoft_Tests-Physical Inventory	05/03/20 5:17 PM	APP File	52 KB
Microsoft_Tests-Prepayment	05/03/20 5:17 PM	APP File	55 KB
☑ Microsoft_Tests-Rapid Start	05/03/20 5:17 PM	APP File	79 KB
☑₂ Microsoft_Tests-Report	05/03/20 5:17 PM	APP File	104 KB
Microsoft_Tests-Resource	05/03/20 5:18 PM	APP File	152 KB
Microsoft_Tests-Reverse	05/03/20 5:17 PM	APP File	78 KB
Microsoft_Tests-SCM	05/03/20 5:17 PM	APP File	2,819 KB
Microsoft_Tests-SINGLESERVER	05/03/20 5:17 PM	APP File	154 KB
Microsoft_Tests-SMB	05/03/20 5:17 PM	APP File	163 KB
Microsoft_Tests-SMTP	05/03/20 5:17 PM	APP File	21 KB



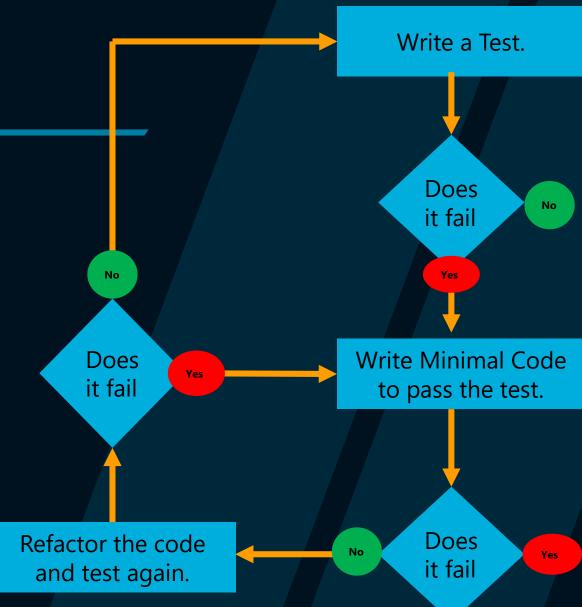
Change in Dev. Methodology.

 With Automated Testing we will need to change our development methodology.

- Write Test.
- Write App.
- Execute Test.



Process Flow





Customer Requirement?

We Require a New Field in Customer Card – "Demo Text".

• When user creates a Sales Quote "Demo Text" should get copied from the customer.



Customer Requirement.

GIVEN

A Customer with Demo Text.

WHEN

A Sales Quote is Created.

THEN

 Demo Text in Sales Quote is populated from Customer.



DEMO



References.

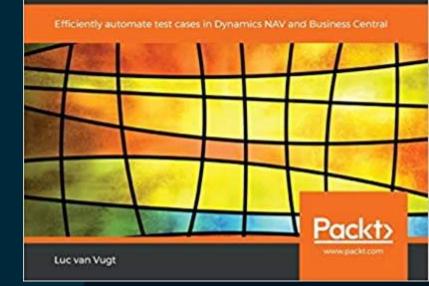
- Clone repo https://github.com/postsaurav/alsamples.git
- Link https://github.com/postsaurav/alsamples
- Business Central Testing the Application

https://docs.microsoft.com/en-us/dynamics365/business-central/dev-itpro/developer/devenv-testing-application

Book

https://www.amazon.in/Automated-Testing-Microsoft-Dynamics-Business/dp/1789804930

Automated Testing in Microsoft Dynamics 365 Business Central





Next Week Topic?

Vote Here - http://etc.ch/Uect



