SPS EVENTS

M365 SATURDAY BANGALORE 2022

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3 December, 2022

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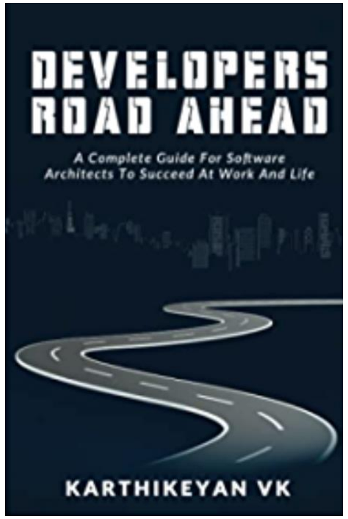

DEVELOPERS ROAD AHEAD

A Complete Guide For Software Architects To Succeed At Work And Life

KARTHIKEYAN VK

Session No 4

Customise SharePoint List forms with SPFx Form Customizer Extension

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SPEAKERS PANEL

Siddharth Vaghasia

Technical Consultant

Why we need to customize Form

- Custom layout/UI
- Show hide columns based on permission
- Custom validation based on fields
- Bring data from external API
- Saving data to multiple list
- Cascading dropdowns

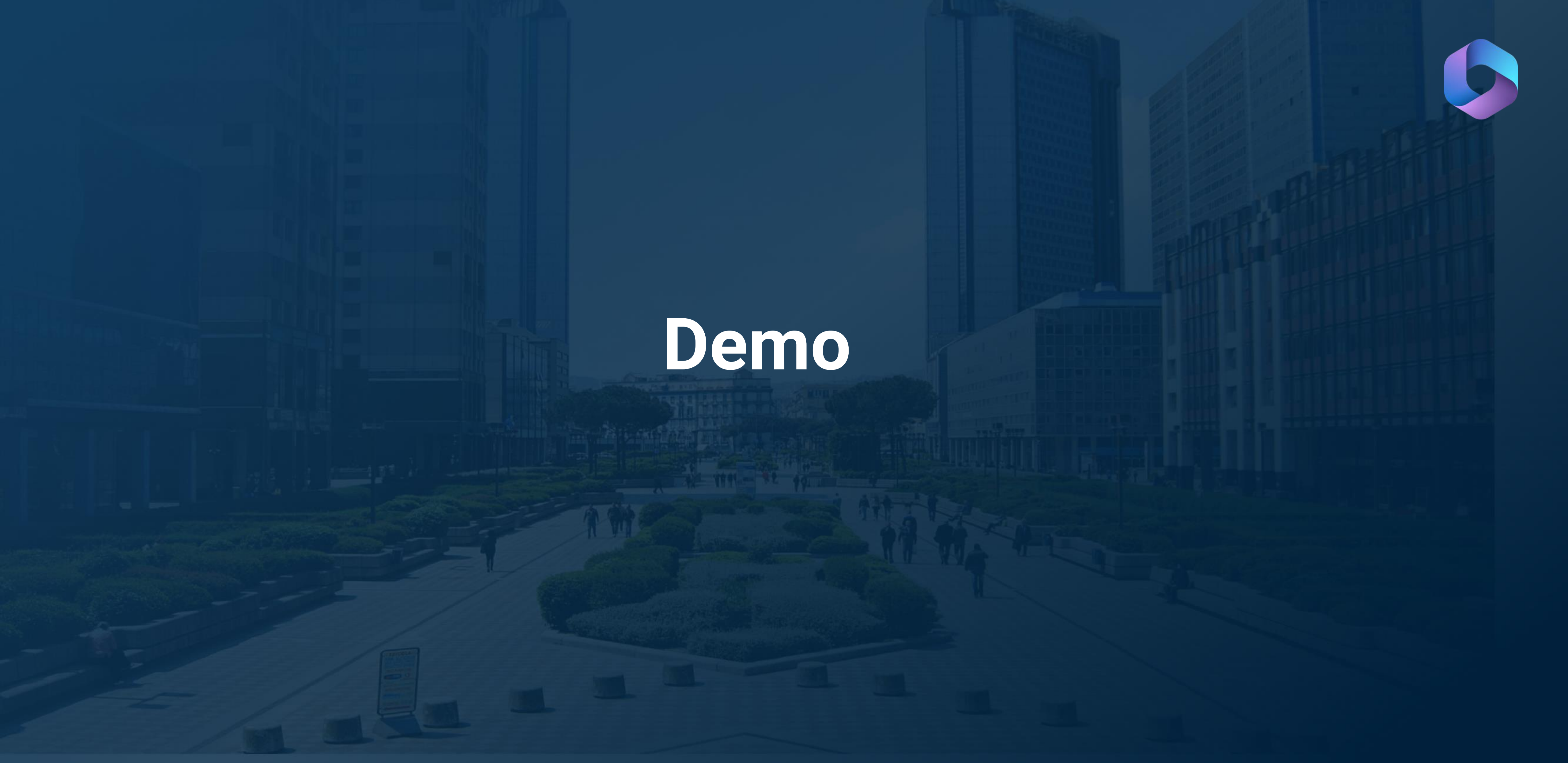
Ways to customize form

- Use Form Formatting
- Use Power Apps
- Use SPFx webpart
- Use SPFx form Customizer *

SPFx Form Customizer

The Form Customizer Extension allows developers to customize new, edit and display forms of the lists and document libraries.

- Available from SPFx 1.15
- Association via content type
- React Vs No Framework
- Targeted to list/library
- Choose which form to customize



Demo

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Deployment

Deploy

Deploy as SPFx solution to App Catalog

Install

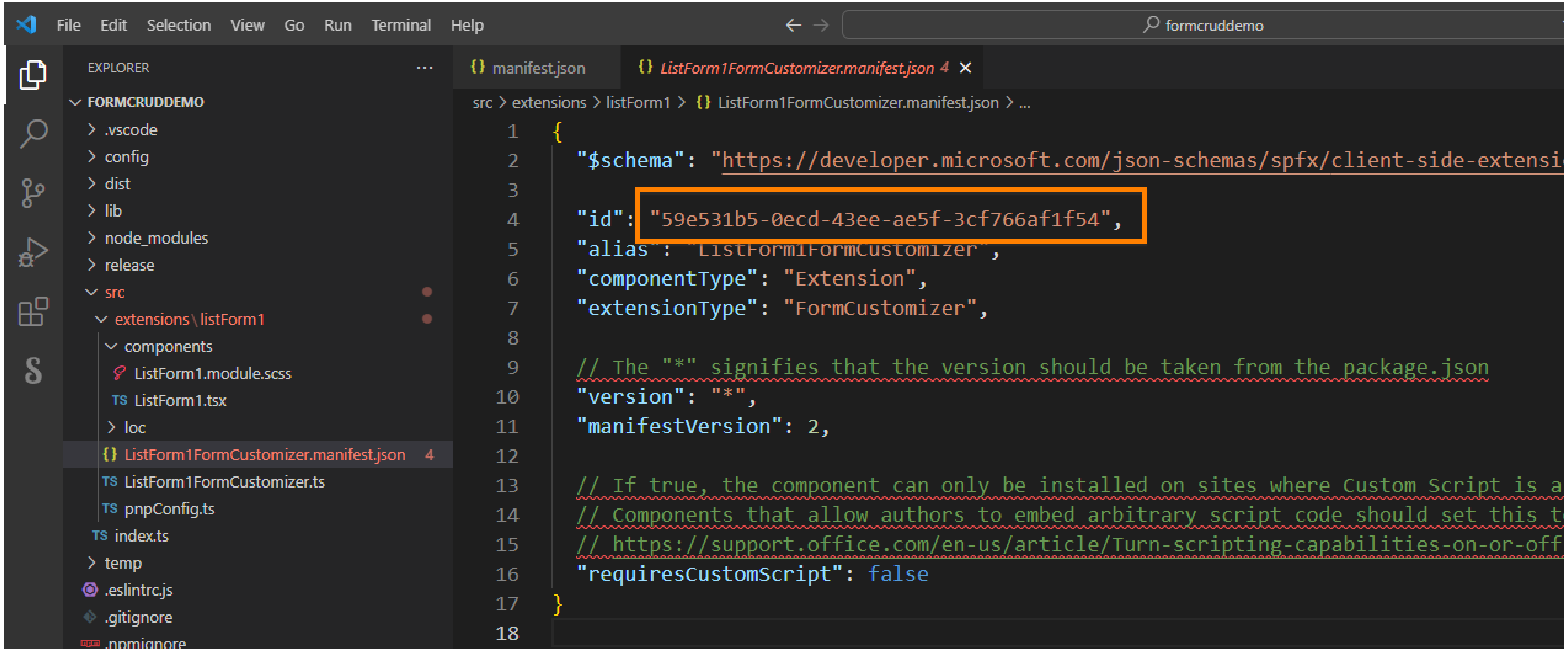
Install solution to Target Site collection

Associate

Associate Custom component to content type

- Provision list via solution
- Associate component to content type via REST or CSOM API

How to get component ID



```
{
  "$schema": "https://developer.microsoft.com/json-schemas/spfx/client-side-extensi
  
  "id": "59e531b5-0ecd-43ee-ae5f-3cf766af1f54",
  "alias": "ListForm1FormCustomizer",
  "componentType": "Extension",
  "extensionType": "FormCustomizer",

  // The "*" signifies that the version should be taken from the package.json
  "version": "*",
  "manifestVersion": 2,

  // If true, the component can only be installed on sites where Custom Script is a
  // Components that allow authors to embed arbitrary script code should set this t
  // https://support.office.com/en-us/article/Turn-scripting-capabilities-on-or-off
  "requiresCustomScript": false
}
```

PnP Powershell

```
Import-Module PnP.PowerShell
$siteURL="https://mydomain.sharepoint.com/sites/mylab"
Connect-PnPOnline -Url $siteURL -Interactive
$clientContext = Get-PnPContext
$contentType = Get-PnPContentType -List “ListName" -Identity "Item"
$contentType.NewFormClientSideComponentId = "59e531b5-0ecd-43ee-ae5f-3cf766af1f54";
$contentType.EditFormClientSideComponentId = "59e531b5-0ecd-43ee-ae5f-3cf766af1f54";
$contentType.ViewFormClientSideComponentId = "59e531b5-0ecd-43ee-ae5f-3cf766af1f54";
$contentType.Update($false)
$clientContext.ExecuteQuery()
```

REST API Association Sample Code

- */sites/MyLab/_api/Web/Lists(@v0)/ContentTypes(@v1)?&@v0=guid'84f24164-d52e-4f93-967a-cdacb2bc3b36'&@v1='0x0100DA0BEA0C911ADA41B92439DB6E909AB800BB47FFE760BDB5438080508561ADAC9F’*
- Patch Method
- Object to pass

```
{
  '__metadata': {
  'type': 'SP.ContentType'
  },
  'NewFormClientSideComponentId: '',
  'DispFormClientSideComponentId': '',
  'EditFormClientSideComponentId': '',
  'EditFormClientSideComponentProperties': {}
}
```

CSOM

```
using (var context = new ClientContext("https://domain.sharepoint.com/sites/sitname"))
{
    context.Credentials = GetSharePointOnlineCredentials();
    var web = context.Web;
    var list = web.Lists.GetByTitle(“DemoList");
    var ctypes = list.ContentTypes;
    context.Load(web);
    context.Load(list);
    context.Load(ctypes);
    context.ExecuteQuery();
    Console.WriteLine("List title: " + list.Title);
    var ctype = ctypes.FirstOrDefault(ct => ct.Name == "Item");
    if (ctype == null) return;
    ctype.NewFormClientSideComponentId = "59e531b5-0ecd-43ee-ae5f-3cf766af1f54  ";
    ctype.EditFormClientSideComponentId = "59e531b5-0ecd-43ee-ae5f-3cf766af1f54  ";
    ctype.Update(false);
    context.ExecuteQuery();
    Console.WriteLine("Configuration for " + ctype.Name + " complete.");
}
```

Reference Links

- https://learn.microsoft.com/en-us/sharepoint/dev/spfx/extensions/get-started/building-form-customizer
- https://www.c-sharpcorner.com/article/spfx-form-customizer-extension-to-customize-sharepoint-neweditdisplay-form-of/
- https://blog.mastykarz.nl/customize-list-forms-sharepoint-framework-form-customizers/

Next Session

Turbo-boost your SPFx upgrades and deployment using CLI for Microsoft 365

2.50 PM

SPEAKERS PANEL

Arjun Menon

Solution Architect