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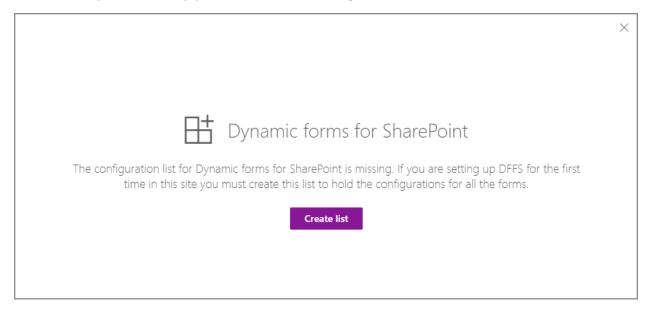
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2 Enter setup

2.1 Create configuration list

When you have installed the Modern DFFS you will see a button "DFFS" in the banner of the list. This will only show for users with **Manage lists** permission. Click this button to enter setup.

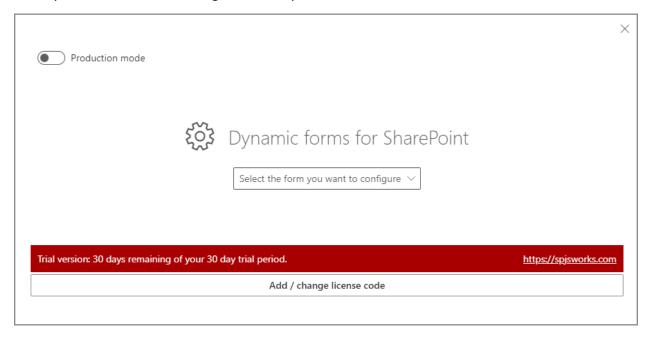
The first time you enter setup you must create the configuration list:



This configuration list is a standard *custom list*, but it is by default hidden from all site contents. You are not supposed to manually edit this list, but it can be accessed by typing in the list name in the URL like this: .../Lists/DFFSConfigurationList

2.2 Enter setup or add / change the license code

When you have created the configuration list, you will see this screen:



2.2.1 Enter setup

Here you can select the form you want to configure from the drop-down menu. You can choose from the following forms: NewForm, DispForm and EditForm.

You use NewForm to create new list items (a document library does not have an NewForm), DispForm to display an existing list item and EditForm to edit an existing list item.

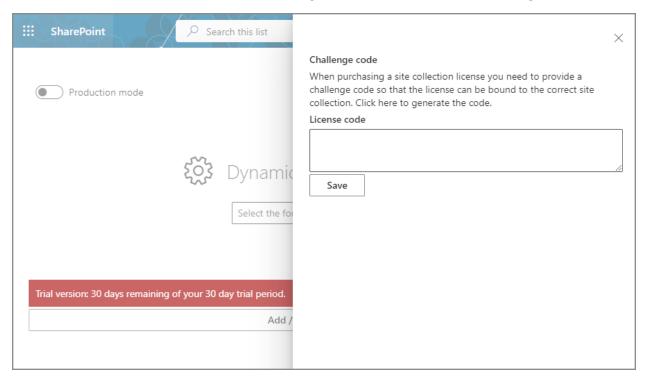
2.2.2 Production or development mode

You can toggle between production and development mode using the toggle in the top left corner. When toggling this to Development mode and entering a form configuration you will see a yellow button in the top right corner. If you click this button, you can assess your development mode configuration in a new window.



2.2.3 Generate challenge code

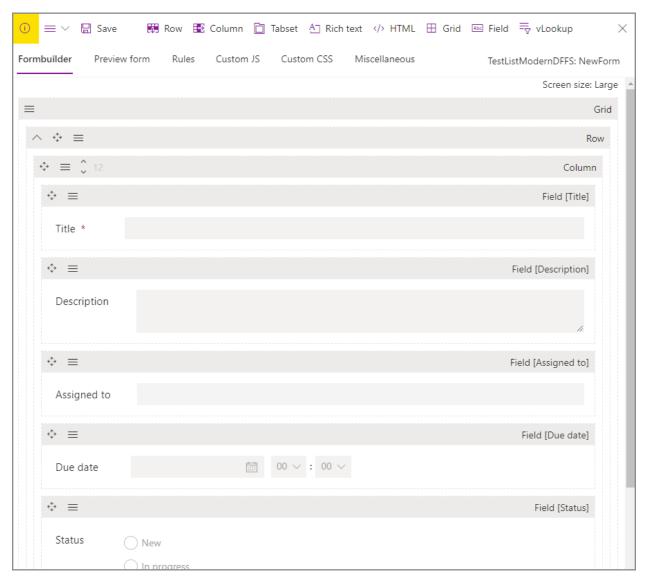
When you purchase a site collection license you must generate a challenge code to bind the license code to the current site collection. Click the **Add / change license code** to access the challenge code.



You get a 30-day trial when you first install the solution. You can purchase a license or ask for a quote from the here: https://spjsworks.com/purchase

3 Configuration of a form

When you open the configuration for the first time, all fields are automatically added to the form. You can delete the ones you do not want to have visible in the form. Deleting a field from the configuration for one form does not delete it from the list settings.



To add new fields to your list you must use the default list settings. You find a link to open list settings from the Miscellaneous tab.

You can rearrange the fields by drag-and-drop, and you can access the properties pane for all elements by using the burger-button or on the right click menu. The different form elements have different properties – you find a bit more information in the next section.

3.1 Banner buttons

3.1.1 Save

Saves the configuration.

3.1.2 Import /Export

This opens a panel where you can browse through other configurations and restore points created for this list, import configurations from the Classic DFFS or import / export as JSON.

3.1.3 Create restore point

Create a restore point that lets you change back to this configuration if needed. It is recommended that you create a restore point before doing major changes.

3.1.4 Switch form

Switch between NewForm, DispForm and EditForm of the list (NewForm is not available in document libraries).

3.1.5 Delete

Use this to permanently delete the configuration and change back to the out of the box SharePoint form.

3.2 Formbuilder

Use the banner buttons to drag-and-drop form elements onto the form.

You can choose from the following elements:

- Row
- Column
- Tabset
- Rich text
- HTML
- Grid
- Field
- Lookup

You can configure all form elements by opening the properties pane using the burger-button or the right click menu.

3.2.1 Row

Rows are used as placeholders for columns. You can add an unlimited number of rows to your form.

3.2.2 Column

A row has 12 available sections. You can have one column that takes up all 12 section or add any number of columns (up to 12) and distribute the sections between them.

You can set the distribution of space depending on the screen size to make a more responsible for different screen sizes.

3.2.3 Tabset

You can create tabsets and add any number of tabs. If you do not want to use the default tab color (if is based on the color theme of your site) you can set the color of the individual tab, or add a default color for all tabs in the Miscellaneous tab. You can make a tabset "sticky" to ensure it stays on the top of the screen when scrolling a long form.

Each tab will have a placeholder where you can add rows and columns.

3.2.3.1 Select same tab when navigating from DispForm to EditForm

If you use the same tabs in DispForm and EditForm and want to select the same tab in EditForm when navigating from DispForm you can set up a rule in EditForm triggering on *Form is loaded*, add the *Select tab* action and select the option *When navigating from DispForm*, select the same tab.

3.2.3.2 Set selected tab in a tabset

When configuring a tabset you can set the default selected tab for each tabset.

If you want to create a link to a form and want to select a specific tab - that is not the default selected tab specified in the tabset - you can create a link with an URL query string key like this:

To find the ID of your specific tab you must right click the tab you want to select and select *Inspect* to use the developer tools in your browser. This will open the developer tools and show something like this:

The number is used in the URL key like this: sTab= 9502543918899333

3.2.4 Rich text

You can use this control to add your own rich text to the form. This is not text that will be saved to the list, but instructions to the user that fill in the form.

3.2.5 HTML

You can add your own custom HTML. Accompany this with Custom JS and Custom CSS to create your own form elements. The values in any HTML-elements you create will not be saved to the list when saving your form element unless you use your own Custom JS to do so.

3.2.6 Grid

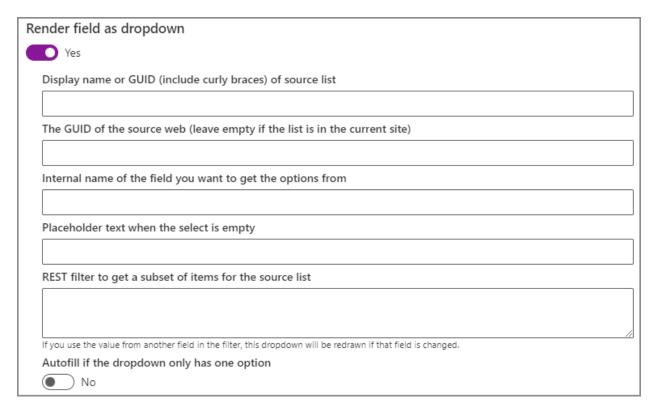
Use this to make a grid layout where you can add rows and columns.

3.2.7 Fields

You can select from all the built in SharePoint field types. To be able to add a field to the form, you must first crate it in the default list settings for that list. You find a button to open the list settings in the Miscellaneous tab.

3.2.7.1 Render a single line of text field as a drop-down

You can create a drop-down menu on a single line of text field where the options are pulled in from another custom list in the site collection.



Open the field properties and toggle **Render as dropdown** to Yes.

Now specify the display name or the GUID of the source list, the internal name of the field you want to use as the selectable options, the placeholder text, and any REST filter you want to use to filter the data source.

You can also check the **Autofill if the dropdown only has one option** to have it automatically fill in the value when it is the only option.

You can make your custom dropdowns cascading by using the **REST filter to get a subset of items for the source list** option. Use the **Add dynamic content** menu in the bottom right corner (where you focus the filter field) to pick the field you want to use as filter. The filter is updated when that field is changed.

3.2.7.2 Render a lookup field as a treeview

A lookup column can be rendered as a treeview. Open the field properties and toggle **Render as treeview** to Yes.

Render as a treeview		
Yes Yes		
Internal name of field that holds the key to the parent item		
This field must be empty on all the root level items. On all child items it must have a value matching the value from the Country_x002d_Region field in a parent item so they can be ordered in the parent-child hierarchy used to draw the treeview.		
Selectable		
Internal name of the boolean field that determines whether or not an item is selectable. Leave empty if not in use.		

You must have a field that links the child items to the parent to maintain the parent-child relationship. For example, a field named Parent that for the child items holds the Title of the parent item.

You can also have a Boolean field in your list that determines whether you can select each item or not.

Here is an example where the Selectable option is set to false for Alabama.

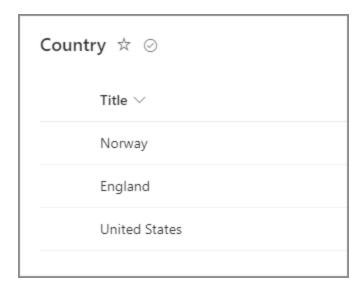


3.2.7.3 Create cascading lookups

You can make your lookup fields cascading by using the Filter option. Use the **Add dynamic content** menu in the bottom right corner (where you focus the filter field) to pick the field you want to use as filter. The filter is updated when that field is changed.

This example shows how you can set up two lookup columns in your form *Country* and *Region* where the second one is filtered by the selection in the first. To do this you must create two lists that your lookup columns will get their values from – one for country and one for region.

The first list *Country* is set up with only the Title field:



The second list *Region* is set up with a lookup column that looks up the Title field from the *Country* list. The Region name is specified in the Title field:

Region ☆	
Country ∨	Title ∨
Norway	Vestfold
Norway	Agder
England	South East
England	London
England	North West
United States	Alabama
United States	Alaska
United States	Arizona

Now you can create the two lookup columns in your form – one for *Country*:

Name and Type	
Type a name for this column, and select the type of information you want to	Column name:
store in the column.	Country
	The type of information in this column is:
	○ Single line of text
	Multiple lines of text
	Ochoice (menu to choose from)
	O Number (1, 1.0, 100)
	Currency (\$, ¥, €)
	O Date and Time
	 Lookup (information already on this site)
	Yes/No (check box)
	O Person or Group
	O Hyperlink or Picture
	Calculated (calculation based on other columns)
	OLocation
	○ Image
	© External Data
	○ Task Outcome
	○ Managed Metadata
Additional Column Settings	
_	Description:
Specify detailed options for the type of information you selected.	
	Require that this column contains information:
	○ Yes ● No
	Enforce unique values:
	○ Yes
/	Get information from:
1	Country
(In this column:
\	Title
	☐ Allow multiple values

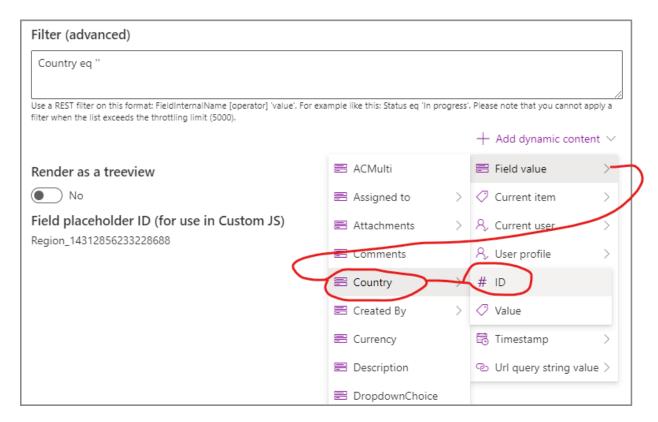
And one for *Region*:

Type a name for this column, and select the type of information you want to store in the column. Column name: Region	
store in the column.	
The type of information in this column is:	
○ Single line of text	
○ Multiple lines of text	
○ Choice (menu to choose from)	
○ Number (1, 1.0, 100)	
Currency (\$, ∓, €)	
O Date and Time	
Lookup (information already on this site)	
Q Yes/No (check box)	
O Person or Group	
Orlandated (advantation based on ather solutions)	
 ○ Calculated (calculation based on other columns) ○ Location 	
○ Image	
C External Data	
○ Task Outcome	
○ Managed Metadata	
C	
Additional Column Settings	
Description:	
Specify detailed options for the type of information you selected.	
Require that this column contains information:	
○ Yes	
Enforce unique values:	
Ves No	
Get information from:	
Region	
In this column:	
Title V	

Now you can enter the Modern DFFS configuration to set up the filter on the *Region* lookup column:

Region
Label position
Left
Field label style
Inline CSS: Separate each key:value pair with semicolon, or add them on separate lines. The custom style is only visible when viewing the form.
Name
Use custom field name (plain text)
Description
Use custom field description (text / HTML)
Container styling
Inline CSS: Separate each key value pair with semicolon, or add them on separate lines. The custom style is only visible when viewing the form.
Filter (advanced)
Country eq '[[fieldValue:Country.LookupId]]'
De a REST filter on this format: FieldInternalName [operator] 'value'. For example like this: Status eq 'In progress'. Please note that you cannot apply a
filter when the list exceeds the throttling limit (5000).
Render as a treeview
No No
Field placeholder ID (for use in Custom JS)
Region_14312856233228688

The field name *Country* in the filter is the internal name of the lookup field *Country* in the list *Region*. The filter value [[fieldValue:Country.Lookupld]] can be found by clicking the Add dynamic content below the textarea (shown when you focus on the textarea) and selecting the lookup field for Country in the current list – like this:



Your Regions column will now be filtered to show only the regions that fall under the Country selected in the first lookup field.

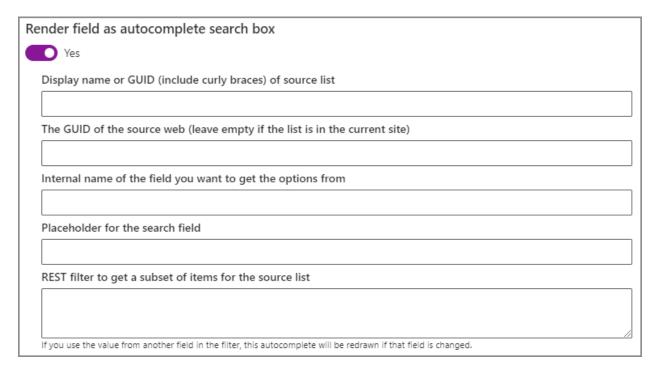
3.2.7.4 *vLookup*

Use this control to show a table view of items from a child list. You configure the control by selecting the web, list and filter to retrieve the desired items.

You can select which fields to populate the table and configure **Add new** to be able to create a new child item that is automatically linked to the current item by prefilling values from the current item (the same values as you use in the filter).

3.2.7.5 Autocomplete

You can render a single or multiline plain text field as an autocomplete lookup field that lists the options from another list in your SharePoint site collection. Configuration is done in the field properties like this:



Open the field properties and toggle **Render field as autocomplete search box** to Yes.

Now specify the display name or the GUID of the source list, the internal name of the field you want to use as the selectable options, the placeholder text, and any REST filter you want to use to filter the data source.

You can also check the **Autofill if the dropdown only has one option** to have it automatically fill in the value when it is the only option.

You can make your custom dropdowns cascading by using the **REST filter to get a subset of items for the source list** option. Use the **Add dynamic content** menu in the bottom right corner (where you focus the filter field) to pick the field you want to use as filter. The filter is updated when that field is changed.

3.2.7.6 Render a single line of text field using a custom render function [advanced]

A single line of text field can be rendered using a custom function if you want to add your own customized rendering.

Start by adding the field to your form and then open the field properties. Check the **Use a custom render function** and add the name of the function – for example *myTxtFieldRenderFn*.

Open the Custom JS tab and add a function with the name you specified. This example will render a dropdown menu with two options. You can render any control you like as long as the value can be stored in a single line of text field.

```
function myTxtFieldRenderFn(f) {
  let options = [{ "val": "Option 1", "text": "Option one" }, { "val": "Option 2", "text": "Option two" }];
  let currFieldValue = getFieldValue(f.InternalName);
  let b = [];
  b.push("<select onchange='changeCustomDropdown(\"" + f.InternalName + "\", this)' style='padding: 6px 10px'>");
  b.push("<option value=">---</option>");
  options.forEach(opt => {
    b.push("<option value="" + opt.val + """ + (currFieldValue === opt.val ? " selected=true"" : "") + ">" + opt.text + "</option>");
  });
  b.push("</select>");
  return b.join("");
  }
  function changeCustomDropdown(fin, elm) {
    var value = elm.value;
  // Set the value to ensure it is saved with the form
    setFieldValue(fin, value);
  }
}
```

3.3 Preview form

You can preview the form configuration from within the configurator. Some fields are rendered as readonly, and lookup columns rendered as treeview will have dummy content.

3.4 Rules

You can create rules to make your form dynamic. You can combine different triggers to create complex triggers by using a combination of and / or.

You can use the form fields as trigger using these operators:

- Is equal to
- Is not equal to
- Contains
- Does not contain
- Is greater than
- Is greater than or equal to
- Is less than
- Is less than or equal to
- Starts with
- Does not start with
- Ends with
- Does not end with

In addition to these triggers:

- Form is loaded
- Before save of the form
- After save of the form
- Using a mobile device
- SharePoint group
- Selected tab
- URL query string value
- Result from another rule

When you have set up the trigger you must select the actions. You can set up different actions based on the result of the rule – **If yes** and **If No**.

You can select among these actions:

- Required fields
- Optional fields
- Visible fields
- Hidden fields
- Editable fields
- Readonly fields
- Show elements

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- Hide elements
- Call a function
- Set field value
- Send email
- Stop email
- Show / hide tabs
- Select tab
- Show a message box
- Show a field message
- Remove a field message

3.5 Custom JS

In this tab you can load external *.js files or add custom js directly to an editor.

You can find code examples in the forum here: https://spjsblog.com/forums/topic/custom-js-examples/

3.6 Custom CSS

You can add your own custom css style your custom HTML sections or to override any styling on your form.

You can load external CSS files by writing this in the Custom CSS field:

@import "/path_to_file/filename.css";

If you want to override any of the default classnames you must replace the auto-generated ID with the text SUFFIX. Example: change formLabel_a04d0572 to formLabel_SUFFIX. The reason for this is that the suffix number is automatically generated between each load of the page.

3.7 Miscellaneous

This tab contains various settings.

3.7.1 Password

You should set a password to protect your configuration from others.

3.7.2 Form panel type

Choose from the following list of form types:

- Full width
- Large
- Medium
- Small

3.7.3 Comments

Check the **Show comments button in the top right corner of display form and edit form** to let the users comment on the list items. This uses the out-of-the-box SharePoint comment functionality.

3.7.4 Tab colors

You can set the default colors for the tabsets you add to the form.

4 Modern DFFS WebPart

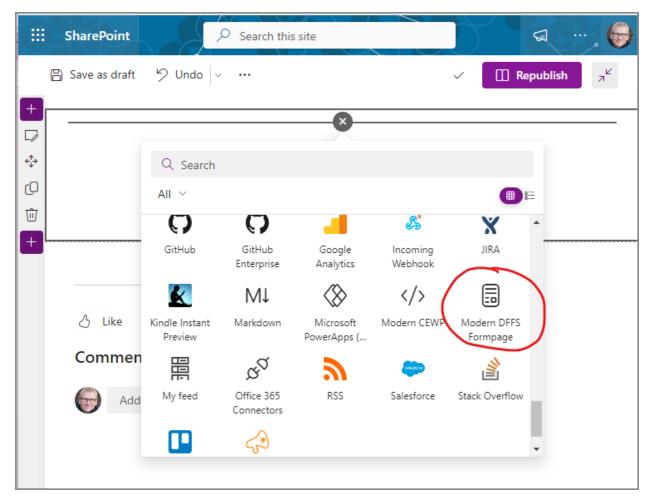
Requires Modern DFFS solution v1.0.14.0 or later.

This web part is used to show a Modern DFFS form in a page. This can be handy if you want to show a new item form, or you want to let users edit a list item by for example passing them a link to an item in an email.

You can use the Moder DFFS WebPart to add, view or edit items in a list that has Modern DFFS Forms configured. To use it you must pass the **DFFSList** (GUID of the target list), the **DFFSForm** (new, disp or edit) and the **DFFSID** (if you want to display or edit an existing item). You can also add a **Source** attribute to have the user redirected to that address after they cancel or save the form.

See instructions when adding the web part.

Add the web part like this:



When you have added it, you can read the instructions on how to use it in the placeholder:

Dynamic forms for SharePoint

This webpart is used to show a Modern DFFS form. You must create a link to this page with the following URL query string parameters

- DFFSList=[The GUID of the list]
- DFFSForm=[The form type you can use new, disp or edit]
- DFFSID=[The ID of the list item to display]
- · Source=[The URL to redirect to after save or cancel]

Example URL to create a new item in a list

https://spjsblog.sharepoint.com/sites/ModernDFFS/SitePages/DFFSForm.aspx?DFFSList= {insert_list_quid_here}&DFFSForm=new&Source=/sites/ModernDFFS

https://spjsworks.com

It is currently not possible to use this formpage when adding, viewing or editing a list item from a list view – only by using a custom link created on the format described above.

4.1 Setting a default redirect in the form URL

When using the Modern DFFS Formpage webpart you can use an URL parameter to se a default redirect. This can still be overridden in Custom JS if you use the function dffs_PostSaveAction or dffs_PostCancelAction.

Create the URL like this

https://spisblog.sharepoint.com/sites/ModernDFFS/SitePages/DFFSForm.aspx?DFFSList={insert_list_gui_d_here}&DFFSForm=new&DFFSSource=/The_url_to_redirect_to

5 Troubleshooting

5.1 Blocked web resources

If you are behind a company firewall you might have trouble loading some of the resources used in the Modern DFFS. For example, the Monaco-editor (the code editor used in Custom JS and Custom CSS) is loaded from cdn.jsdelivr.net. To use the code editor (and not have to edit the code as plain text) you must ensure that this CDN source is not blocked.

The license is loaded from an Azure CDN on this address: https://spjs.blob.core.windows.net. To be able to use DFFS you must also unblock this resource.

5.2 Other blocked resources

Because firewall rules are individually set up for different companies there might be other resources that must be unblocked in your company. If you have trouble loading the Modern DFFS you can use the developer tools to look for error messages in the Console or the Network tab.

If you have any questions please contact support: https://spjsworks.com/support