



PDF SHARE FORMS

Online, Offline, OnDemand

PDF forms and SharePoint are better together

Mapping check boxes and list
boxes to SharePoint "Choice"
column with multiple selection

This guide describes how to use SharePoint Choice columns as **“Multi-Select”** columns for check boxes.

Step 1. Prepare SharePoint columns

For this example will be used two **“Choice”** columns with following settings.

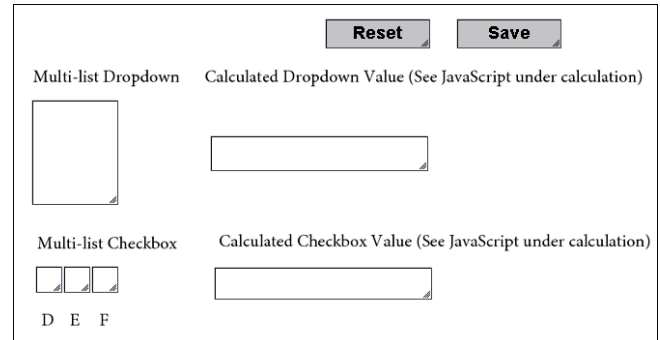
First one:

- Name: **“multi1”**;
- Type each choice on a separate line: **“A”**, **“B”** and **“C”**;
- Display choices using: Checkboxes.

Second one:

- Name: **“multi2”**;
- Type each choice on a separate line: **“D”**, **“E”** and **“F”**;
- Display choices using: Checkboxes.

Step 2. Prepare a template

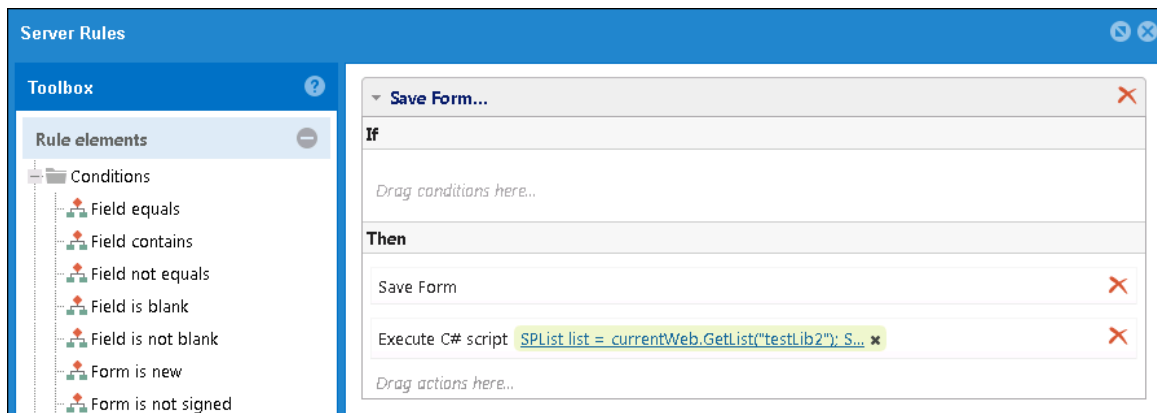


The screenshot shows a form template with two rows of controls. The first row contains a 'Multi-list Dropdown' control on the left and a 'Calculated Dropdown Value (See JavaScript under calculation)' field on the right. The second row contains a 'Multi-list Checkbox' control on the left, which has three checkboxes labeled 'D', 'E', and 'F' below it, and a 'Calculated Checkbox Value (See JavaScript under calculation)' field on the right. At the top right of the form are 'Reset' and 'Save' buttons.

This template has submit button, reset button, three check boxes, list box and two fields which will show what values were selected in check boxes and list box. All check boxes and list box are not mapped to any SharePoint column – we will map them to existing **“Choice”** column using server-side scripting.

To create unmapped check box need to select **“No linking”** in **“link to SharePoint Column”** options.

Step 3. Add script to “Form Submit” action (Developer → Form Submit)



Place **“Execute script”** action under **“Save Form”** action.

Code:

This code will check all three check boxes and will update SharePoint column named “**multi1**”. Also it will check selected values in list box and populate column “**multi2**” with those values.

```
SPList list = currentWeb.Lists["testLib2"];  
SPListItemCollection items = list.Items;
```

This part of code will access target list (“testLib2” in our case) and all list item;

```
SPListItem pdfdoc = null;  
for (int i = 0; i < items.Count; i++)  
{  
    SPListItem item = items[i];  
    if (item.UniqueId.ToString() == form.DocumentID.ToString())  
    {pdfdoc = item;}  
}
```

Here code will find current PDF file (list item) by its GUID

```
string values = data.resolveNode("Multi-Choice Dropdown output").Value;  
int count1 = values.Split(',').Length;  
SPFieldMultiChoiceValue multChoiceValue = new SPFieldMultiChoiceValue();
```

Following part will prepare necessary variables for processing data from listbox;

```
//all 3 values selected  
if (count1 == 3){  
    multChoiceValue.Add("A");  
    multChoiceValue.Add("B");  
    multChoiceValue.Add("C");}  
//2 values selected  
if (count1 == 2){  
    if (values.Split(',')[0].ToString() == ";#A"){  
        if (values.Split(',')[1].ToString() == ";#B"){  
            multChoiceValue.Add("A");  
            multChoiceValue.Add("B");  
        }  
        else{  
            multChoiceValue.Add("A");  
            multChoiceValue.Add("C");  
        }  
    }  
    else{  
        multChoiceValue.Add("B");  
        multChoiceValue.Add("C");  
    }  
}  
//only 1 value selected  
if (count1 == 1){  
    if(values.Split(',')[0] == ";#A"){multChoiceValue.Add("A");}  
    if(values.Split(',')[0] == ";#B"){multChoiceValue.Add("B");}  
    if(values.Split(',')[0] == ";#C"){multChoiceValue.Add("C");}  
}
```

This part is checking how many values are selected in listbox and populates them into multi choice variable;

```
pdfdoc["multi1"] = multChoiceValue;
pdfdoc.Update();
```

Here code is submitting multi choice variable to SharePoint column;

```
SPFieldMultiChoiceValue multChoiceValue2 = new SPFieldMultiChoiceValue();
if(data.resolveNode("Multi-list Checkbox.0").Value == ";#D"){multChoiceValue2.Add("D");}
if(data.resolveNode("Multi-list Checkbox.1").Value == ";#E"){multChoiceValue2.Add("E");}
if(data.resolveNode("Multi-list Checkbox.2").Value == ";#F"){multChoiceValue2.Add("F");}
```

Following part is checking how many values are selected in check boxes and populates them into multi choice variable;

```
pdfdoc["multi2"] = multChoiceValue2;
pdfdoc.Update();
```

This part is submitting multi choice variable to SharePoint column;

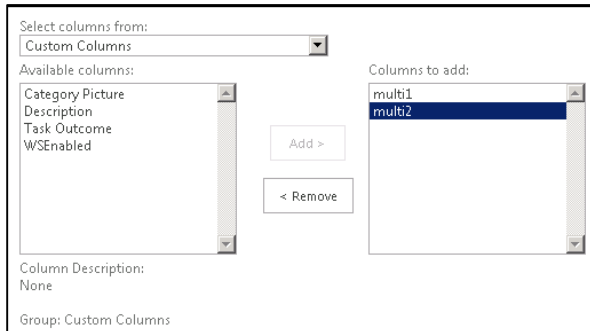
Whole text of provided script you can check in Attachment 1 in the end of this guide.

Step 4. Save template and deploy to the library.

Step 5. Add SharePoint “Choice” columns to your deployed content type

In order to add column to content type need to proceed with following steps:

- 1) Go to “Site Actions → Site Settings → Galleries → Site content types”;
- 2) Find proper content type in “PDF Form Content Types” section and select it;
- 3) Click on “Add from existing site columns” and select proper “Choice” column in “Select Columns” section

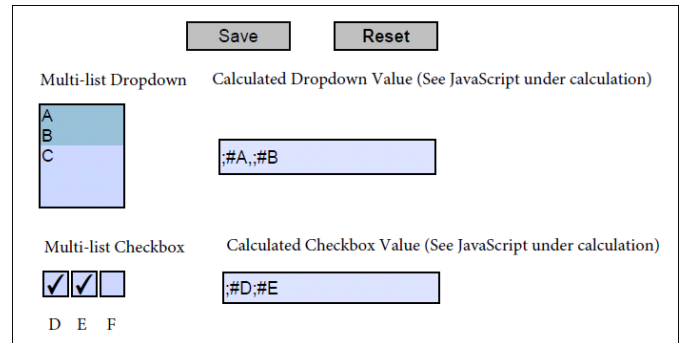


4) Now content type must look like this

Columns	
Name	Type
Name	File
Title	Single line of text
multi1	Choice
multi2	Choice
<input type="checkbox"/> Add from existing site or list columns	
<input type="checkbox"/> Column order	

Step 6. Create new form in runtime

Step 6.1. Check some check boxes, select values in list box and save form.





Step 6.2. Check newly saved PDF form in library:

✓	📄	Name	Modified	Modified By	multi1	multi2
		ComplexFields_51 ✳	... 6 minutes ago	<input type="checkbox"/> Administrator	B	D,E,F
		ComplexFields_54 ✳	... 5 minutes ago	<input type="checkbox"/> Administrator	B,C	D,F
		ComplexFields_55 ✳	... A few seconds ago	<input type="checkbox"/> Administrator	A,B	D,E

Check boxes and list box values we selected on the form were populated to “**Multi**” column.

Attachment 1. This code will check all three check boxes and will update SharePoint column named “**multi1**”. Also it will check selected values in list box and populate column “**multi2**” with those values.

```

SPList list = currentWeb.Lists["testLib2"];
SPListItemCollection items = list.Items;
SPListItem pdfdoc = null;
for (int i = 0; i < items.Count; i++)
{
    SPListItem item = items[i];
    if (item.UniqueId.ToString() == form.DocumentID.ToString())
    {pdfdoc = item;}
}
string values = data.resolveNode("Multi-Choice Dropdown output").Value;
int count1 = values.Split(',').Length;
SPFieldMultiChoiceValue multChoiceValue = new SPFieldMultiChoiceValue();
//all 3 values selected
if (count1 == 3){
    multChoiceValue.Add("A");
    multChoiceValue.Add("B");
    multChoiceValue.Add("C");}
//2 values selected
if (count1 == 2){
    if (values.Split(',')[0].ToString() == ";#A"){
        if (values.Split(',')[1].ToString() == ";#B"){
            multChoiceValue.Add("A");
            multChoiceValue.Add("B");
        }
        else{
            multChoiceValue.Add("A");
            multChoiceValue.Add("C");
        }
    }
    else{
        multChoiceValue.Add("B");
        multChoiceValue.Add("C");
    }
}
//only 1 value selected
if (count1 == 1){
    if(values.Split(',')[0] == ";#A"){multChoiceValue.Add("A");}
    if(values.Split(',')[0] == ";#B"){multChoiceValue.Add("B");}
    if(values.Split(',')[0] == ";#C"){multChoiceValue.Add("C");}
}
pdfdoc["multi1"] = multChoiceValue;
pdfdoc.Update();
SPFieldMultiChoiceValue multChoiceValue2 = new SPFieldMultiChoiceValue();
if(data.resolveNode("Multi-list Checkbox.0").Value == ";#D"){multChoiceValue2.Add("D");}
if(data.resolveNode("Multi-list Checkbox.1").Value == ";#E"){multChoiceValue2.Add("E");}
if(data.resolveNode("Multi-list Checkbox.2").Value == ";#F"){multChoiceValue2.Add("F");}
pdfdoc["multi2"] = multChoiceValue2;
pdfdoc.Update();

```