



# PDF SHARE FORMS

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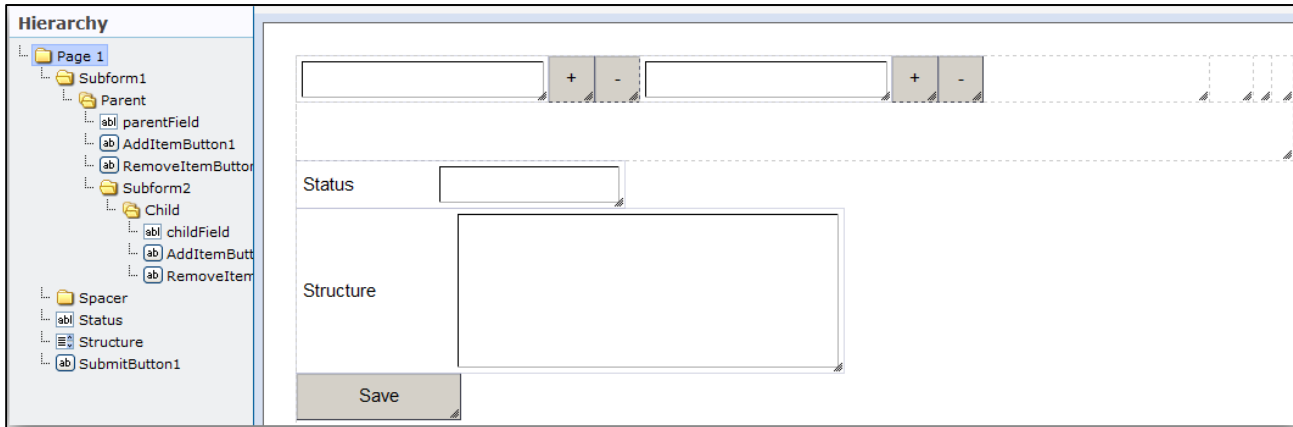
Repeatable section  
in repeatable section

This guide describes how to use repeatable section inside repeatable section.

**For example:**

**Step 1.** Prepare template

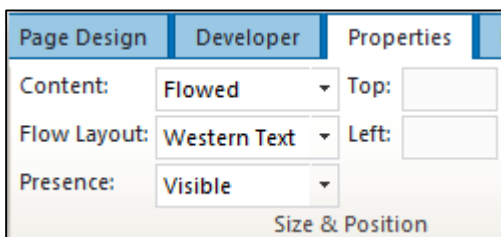
First of all we need to prepare template which will have repeatable section within repeatable section. Also we need few additional controls to store additional information.



This template contains Subform1 with repeatable section (**Parent**) inside it. Repeatable section (**Parent**) contains text field (**parentField**), add item and remove item buttons and another subform (**Subform2**) with repeatable field (**Child**) inside it. “**Child**” consist text field (**childField**), add item and remove item buttons.

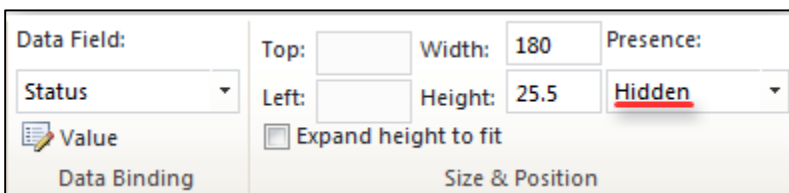
**NOTE:** Page 1 **Content** must be set to **Flowed**.

**Subform1, Parent, Subform2, Child** – **Content** must be set to **Flowed** and **Flow layout** must be set to **Western Text** to sort fields in line.

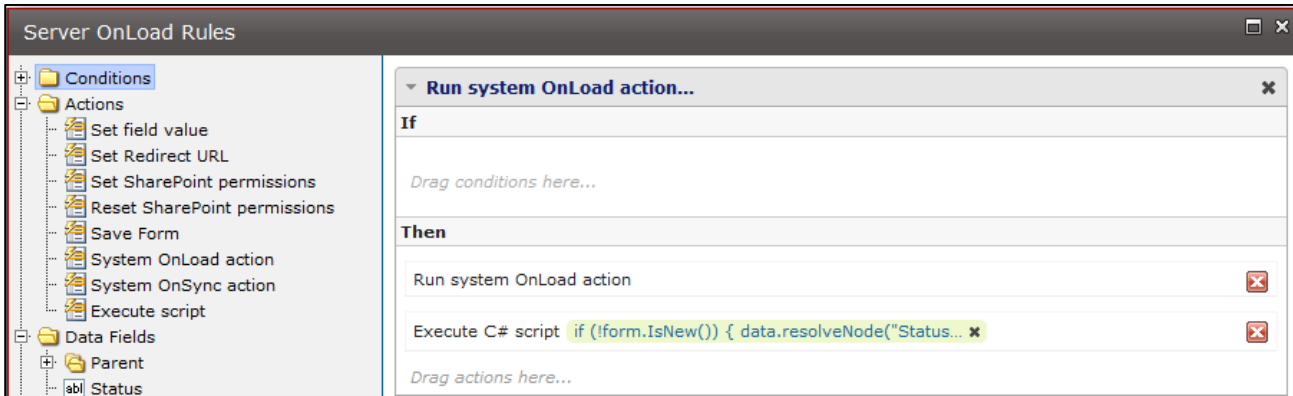


**Status** field need for check if form is new. This field must be set to „**Hidden**”.

**Structure** field is multiline text field. It will store structure of subforms which will be re-created. This field must be set to „**Hidden**”. Those fields are set to visible for demonstration.



**Step 2.** Add script to Form Load (PDF Form Tools → Developer → Form Load):



Script:

```
if (!form.IsNew())
{
    data.resolveNode("Status").value = "old";
}
```

This script will check if form is new and if it is not it will write “Old” in **Status** field.

**Step 3.1.** In AddItemButton1 → PDF Form Tools → Properties → Action remove **Add new item** action and place **Execute script**

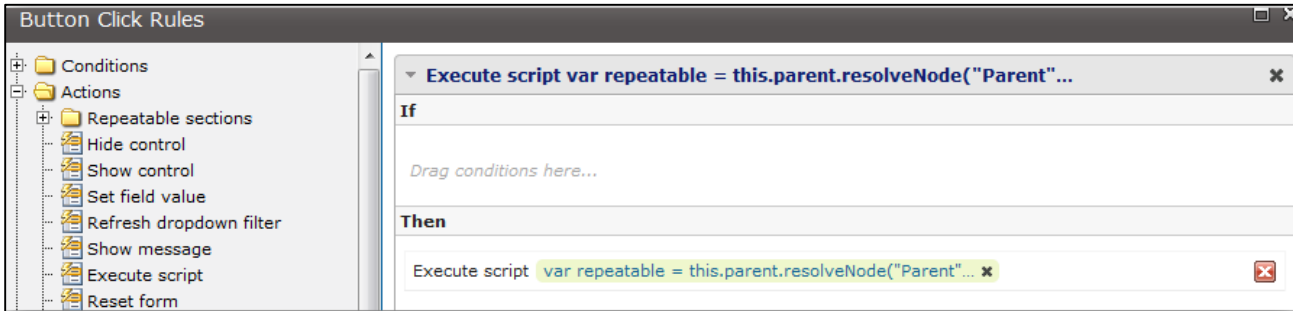


This script will add another **Parent** repeatable section.

Script:

```
var repeatable = this.parent.resolveNode("Parent");
var manager = repeatable.instanceManager;
var maxCount = manager.occure.max; /*Get the maximum number of subform occurrences allowed.*/
var currentCount = manager.count; /*Get the current number of instances.*/
/*Proceed if the maximum number of subform occurrences has not been reached.*/
if ((maxCount == '-1') || (currentCount < maxCount)) {
    /*Invoke the Instance Manager.*/
    var newItem = manager.addInstance(1);
}
else {
    PdfForms.showError('repeatable', 'addItemLimit');
}
```

**Step 3.2.** In **RemoveItemButton1** → **PDF Form Tools** → **Properties** → **Action** remove **Remove current item** action and place **Execute script**

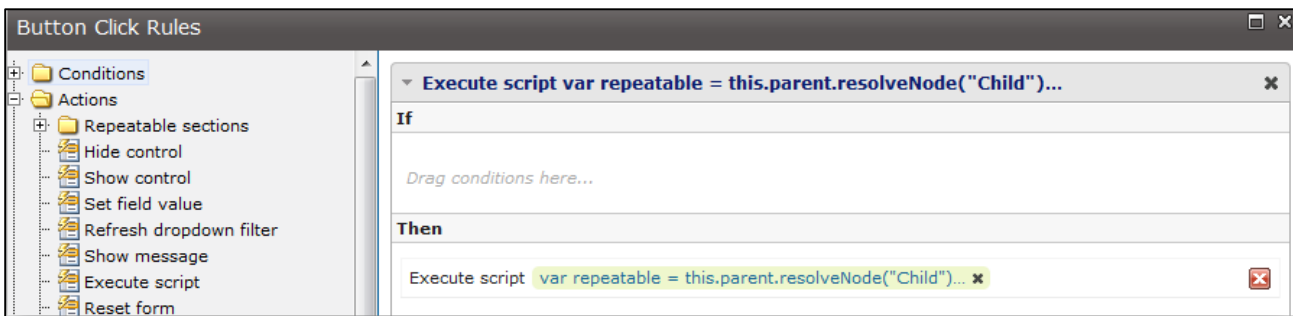


This script will remove whole **Parent** section (with all **Child** repeatable sections it contains)

**Script:**

```
var repeatable = this.parent.resolveNode("Parent");
var manager = repeatable.instanceManager;
/*Invoke the Instance Manager.*/
manager.removeInstance(repeatable.index);
```

**Step 3.3.** In **AddItemButton2** → **PDF Form Tools** → **Properties** → **Action** remove **Add new item** action and place **Execute script**

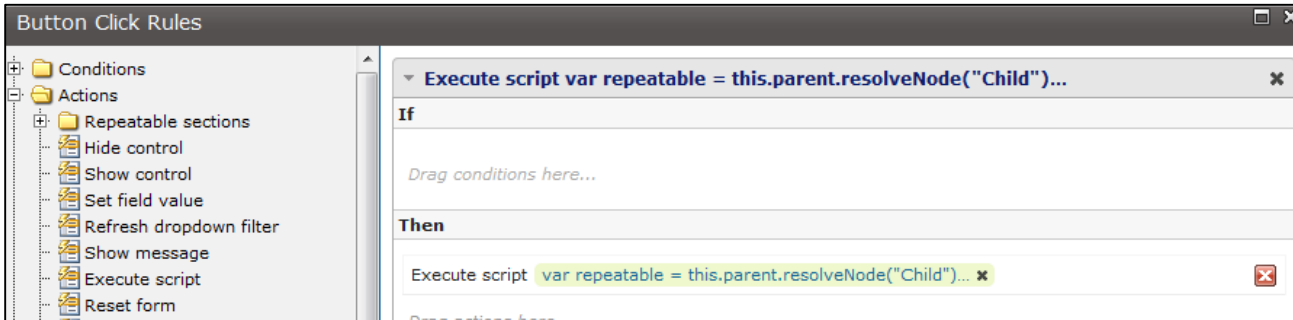


This script will add another **Child** repeatable section in specified **Parent** section.

**Script:**

```
var repeatable = this.parent.resolveNode("Child");
var manager = repeatable.instanceManager;
var maxCount = manager.occure.max; /* Get the maximum number of subform occurrences allowed.*/
var currentCount = manager.count; /* Get the current number of instances.*/
/*Proceed if the maximum number of subform occurrences has not been reached.*/
if ((maxCount == '-1') || (currentCount < maxCount)) {
    /* Invoke the Instance Manager.*/
    var newItem = manager.addInstance(1);
}
else {
PdfForms.showError('repeatable', 'addItemLimit');
}
```

**Step 3.4.** In **RemoveItemButton2** → **PDF Form Tools** → **Properties** → **Action** remove **Remove current item** action and place **Execute script**



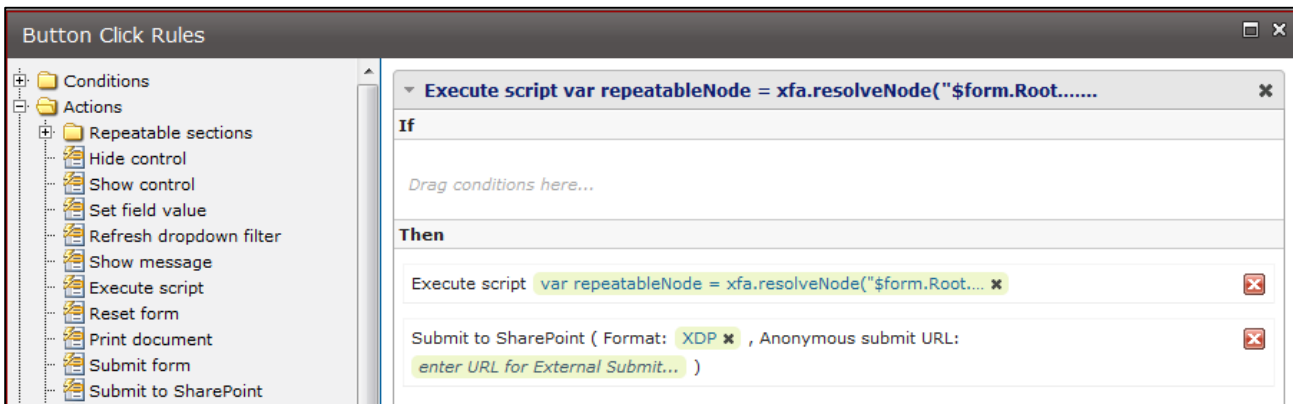
**Script:**

```
var repeatable = this.parent.resolveNode("Child");
var manager = repeatable.instanceManager;
/*remove instance*/
manager.removeInstance(repeatable.index);
```

This script removes **Child** section in **Parent** repeatable section.

Those scripts are necessary for this solution, because functionality showed in this guide is out of box.

**Step 4.** Add **Execute script** action in **SubmitButton1** → **PDF Form Tools** → **Properties** → **Action**:



Place **Execute script** under **Submit** action; add this code:

```
var repeatableNode = xfa.resolveNode("$form.Root.Default..Subform1");
var nodeL = repeatableNode.resolveNodes("Parent[*].parentField");
var parentArray = [];
/*Create object which will contain information from fields*/
/*Run through all parent fields*/
for(var i=0; i<nodeL.length;i++)
{
    var parentObj = new Object;
    var childArray = [];
    parentObj.parentValue = repeatableNode.resolveNode("Parent["+i+"].parentField").rawValue;
    /*Run through all childs of specified parent*/
    for(var j=0; j<repeatableNode.resolveNodes("Parent["+i+"].Subform2.Child[*]").length;j++){
```

```

    var childObj = new Object;
    childObj.child =
repeatableNode.resolveNode("Parent["+i+"].Subform2.Child["+j+"].childField").rawValue;
    childArray.push(childObj);
}
parentObj.childArray = childArray;
parentArray.push(parentObj);
/*Write object into Structure field*/
xfa.resolveNode("$data..Structure").value = parentArray.toSource();
}

```

This code will store structure of repeatable fields which were created before submitting. It allows re-creating all fields after deleting them in **On Form Ready Script**.

**Step 5. Add On Form Ready Script (PDF Form Tools → Properties → Developer → On Form Ready Script):**

```

if(xfa.resolveNode("$data..Status").value == "old"){
/*create repeatable subform and place it on top, so could delete all fields and dont get
error about minimum limit*/
var repeatableNode = xfa.resolveNode("$form.Root.Default..Subform1");
var createFirst = repeatableNode.resolveNode("Parent");
var createFirstSub = createFirst.instanceManager.addInstance(true);
var from = repeatableNode.resolveNodes("Parent[*]").length;
createFirstSub.instanceManager.moveInstance(from-1, 0);
//deleting subform starting from subform with index 1
for(var i=1; i<from;i++){
    repeatableNode.resolveNode("Parent").instanceManager.removeInstance(1);
}
eval("var myObj =" + xfa.resolveNode("$data..Structure").value + ";");
//creating new repeatables and fill them
if(myObj.length>1){
    for(var i=1; i<myObj.length;i++){
        var createNew = repeatableNode.resolveNode("Parent");
        var createNewSub = createNew.instanceManager.addInstance(true);
        createNewSub.resolveNode("parentField").rawValue = myObj[i].parentValue;
        for(var j=0; j<myObj[i].childArray.length; j++){
            var createChild = repeatableNode.resolveNode("Parent["+i+"].Subform2.Child");
            var createChildSub = createChild.instanceManager.addInstance(true);
            createChildSub.resolveNode("childField").rawValue = myObj[i].childArray[j].child;
        }
    }
    repeatableNode.resolveNode("Parent[0].parentField").rawValue = myObj[0].parentValue;
    for(var i=0; i<myObj[0].childArray.length; i++){
        var createChild = repeatableNode.resolveNode("Parent[0].Subform2.Child");
        var createChildSub = createChild.instanceManager.addInstance(true);
        createChildSub.resolveNode("childField").rawValue = myObj[0].childArray[i].child;
    }
//run through all parent child and delete empty fields
for(var i=0; i<myObj.length;i++){
    for(var j=0; j<myObj[i].childArray.length; j++){

```

```

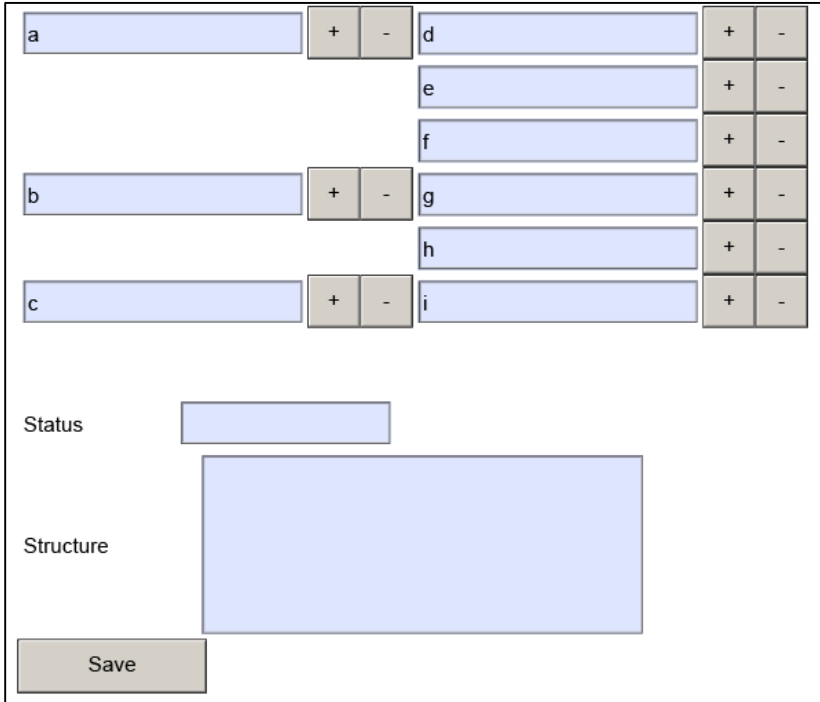
if(repeatableNode.resolveNode("Parent["+i+"].Subform2.Child[0].childField").isNull){
repeatableNode.resolveNode("Parent["+i+"].Subform2.Child").instanceManager.removeInstance(0);
    }
}
}
}
if(myObj.length==1)
{
    repeatableNode.resolveNode("Parent[0].parentField").rawValue = myObj[0].parentValue;
    for(var i=0; i<myObj[0].childArray.length; i++){
        var createChild = repeatableNode.resolveNode("Parent[0].Subform2.Child");
        var createChildSub = createChild.instanceManager.addInstance(true);
        createChildSub.resolveNode("childField").rawValue = myObj[0].childArray[i].child;
    }
    //run through all parents and delete empty fields
    for(var i=0; i<myObj.length;i++){
        for(var j=0; j<myObj[i].childArray.length; j++){
if(repeatableNode.resolveNode("Parent["+i+"].Subform2.Child[0].childField").isNull){
repeatableNode.resolveNode("Parent["+i+"].Subform2.Child").instanceManager.removeInstance(0);
            }
        }
    }
}
xfa.resolveNode("$data..Structure").value = "";
}

```

This code will delete previous fields because they lose the structure that they had before and create new based on **“Structure”** field value. Also this code will delete information from **“Structure”** field, so form could be re-submitted and information would not be duplicated. This script will run only if form is old to not create additional fields when form is created.

**Step 6.** Save template and deploy it. Create form and submit it:

**NOTE:** Status and Structure fields must be set to hidden so regular user could not change its value manually.



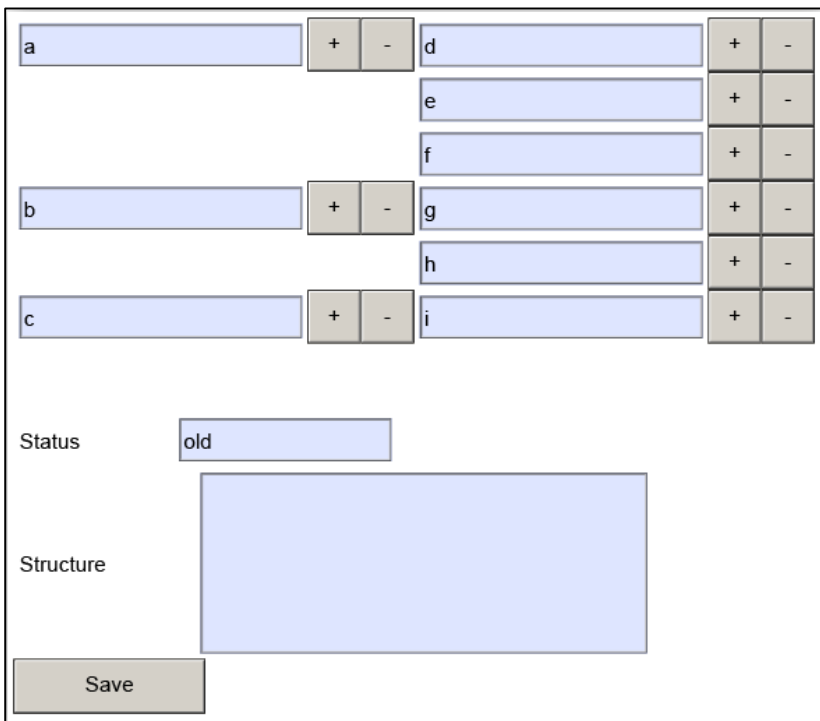
a	+	-	d	+	-
			e	+	-
			f	+	-
b	+	-	g	+	-
			h	+	-
c	+	-	i	+	-

Status

Structure

Save

**Step 6.1.** Result



a	+	-	d	+	-
			e	+	-
			f	+	-
b	+	-	g	+	-
			h	+	-
c	+	-	i	+	-

Status

Structure

Save