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Repeatable section synchronization

Contents

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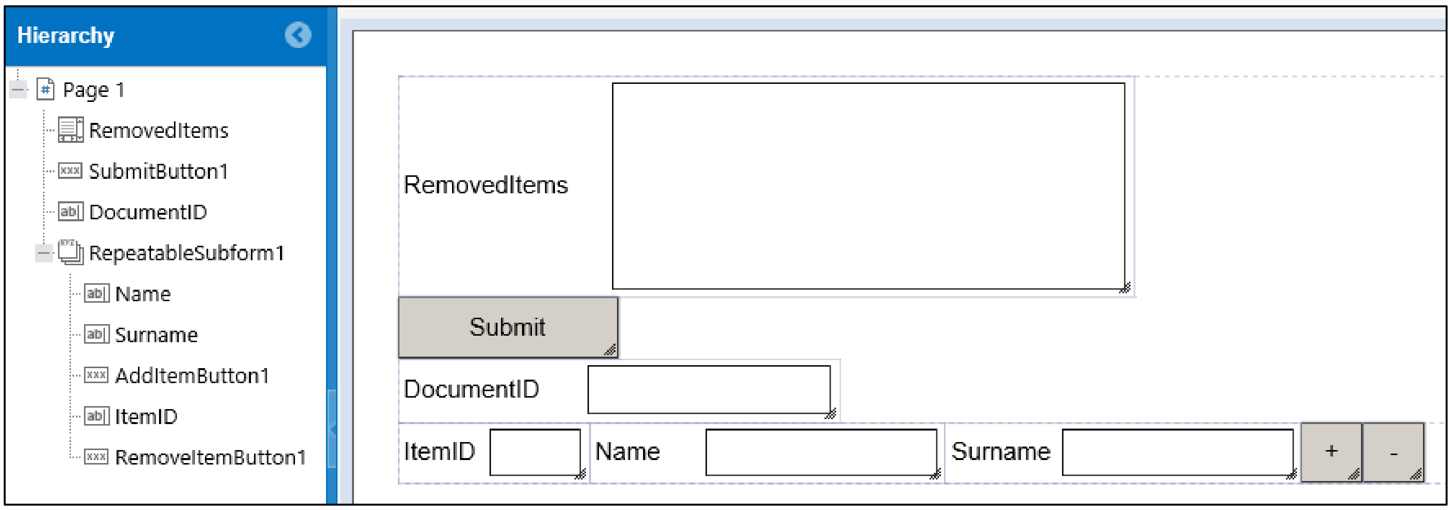
This guide describes how to synchronize form that contains repeatable sections with SharePoint list.

Template

Step 1. Prepare template – Dynamic (XFA) form



This template has multiline text field, submit button, text field and repeatable subform with three text fields in it and add/remove buttons:

RemovedItems – this MultilineTextField is used to store IDs of deleted items, should be set to hidden;

DocumentID – to store document's ID;

RepeatableSubform1:

- ItemID – store list item id, should be set to hidden;
- Name and Surname – store information from list/save information from form to list;
- +/- buttons – add new repeatable node.

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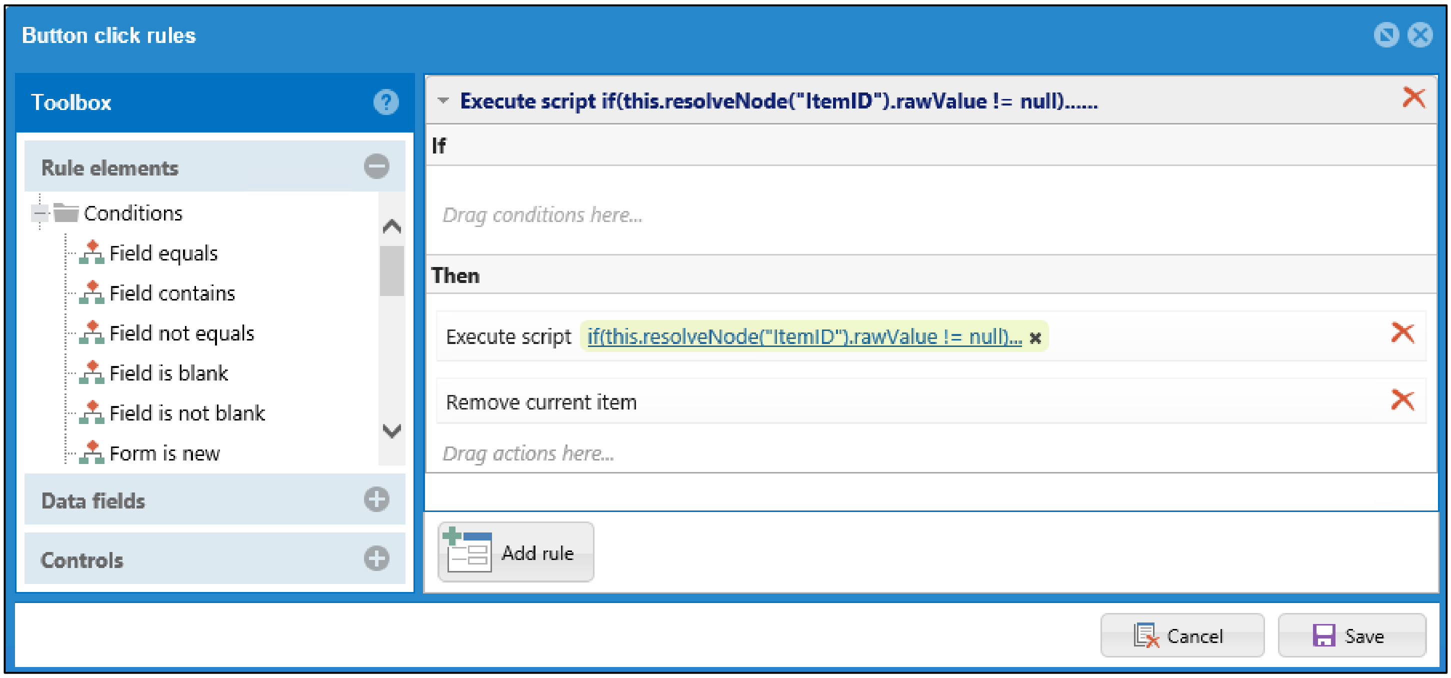
Step 2. Add logic to the remove item button **“–“**. Select button and navigate to **Properties → Actions**



Place **Execute script** before **Remove current item** action. Place this script:

```
if(this.resolveNode("ItemID").rawValue != null){
    if(xfa.resolveNode("$data..RemovedItems").value == null)
      {
      xfa.resolveNode("$data..RemovedItems").value = this.resolveNode("ItemID").rawValue + ";";
      }
      else
      {
            xfa.resolveNode("$data..RemovedItems").value =
xfa.resolveNode("$data..RemovedItems").value + this.resolveNode("ItemID").rawValue +";";

    }
}
```

This script will write down ID of items that are deleted.

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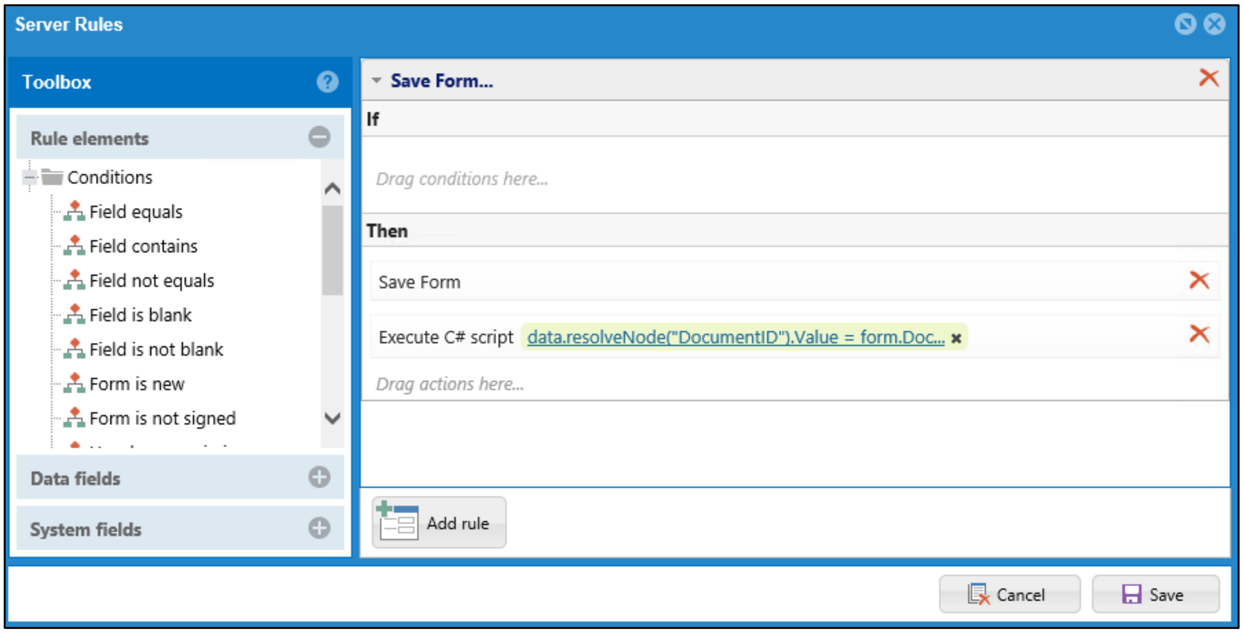
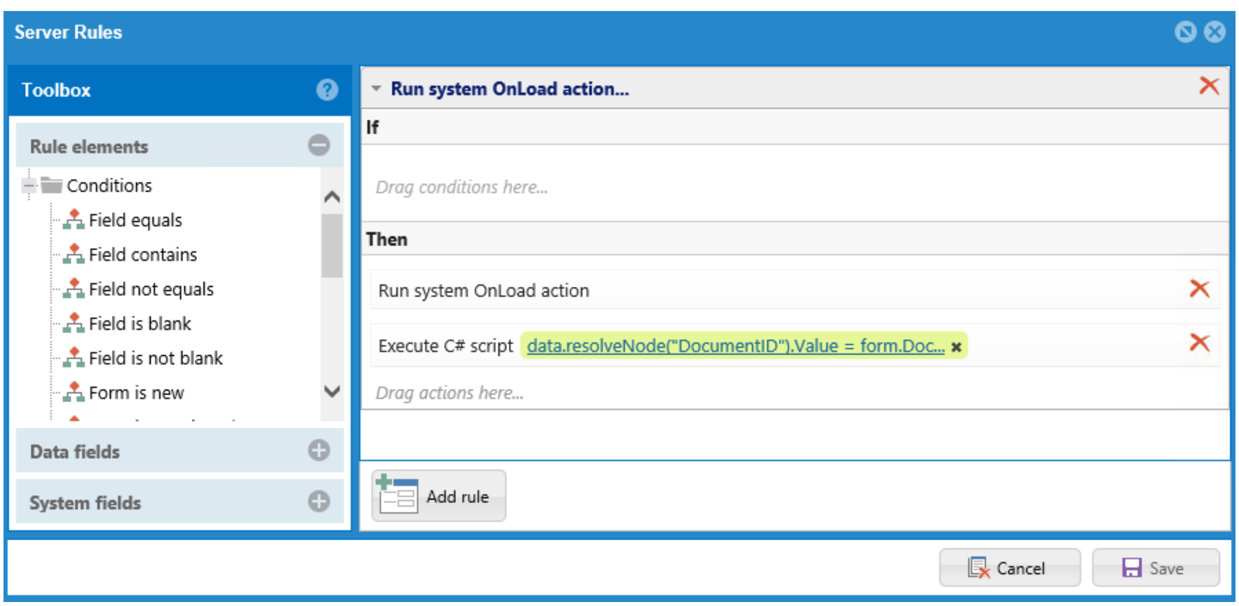
Step 3. Add script to form submit rule. Place **Execute C# script** action under **Save Form** action, navigate to **Developer → Form Submit**



[Script](#)

This script will create new items in specified list and update them on form load.

Step 4. Add **Execute C# script action** under **Run system OnLoad action.** Navigate to **Developer → Form Load**

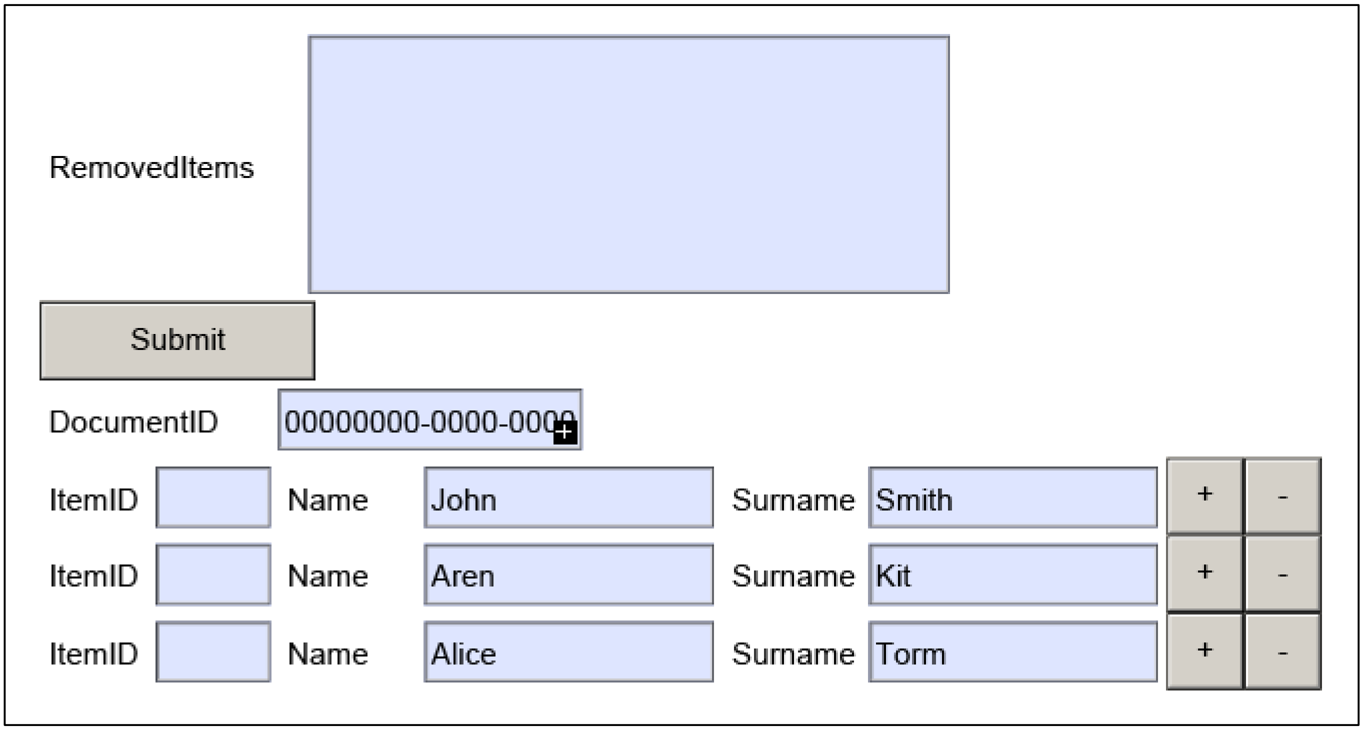


This script will populate nodes with information from list and change information in node if information was changed in list.

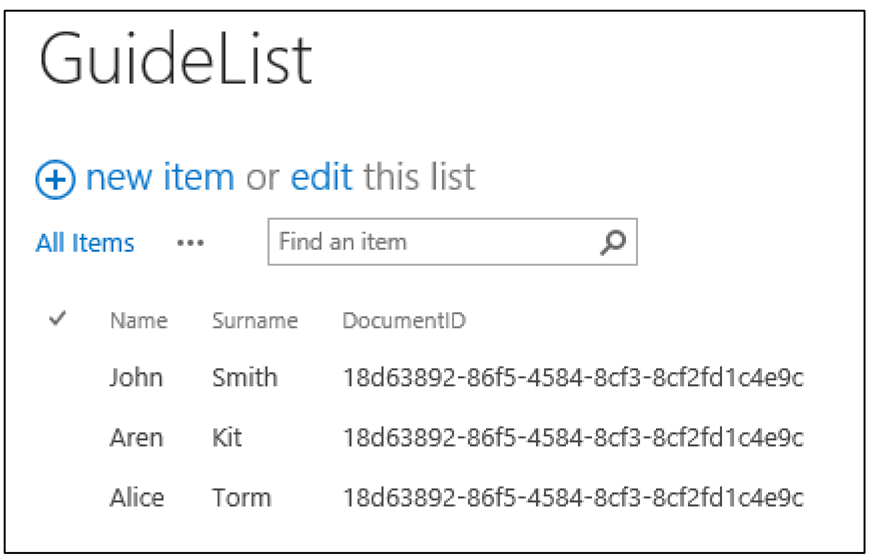
[Script](#)

Runtime

Step 1. Create new form, fill in and submit



New items will be created in specified list



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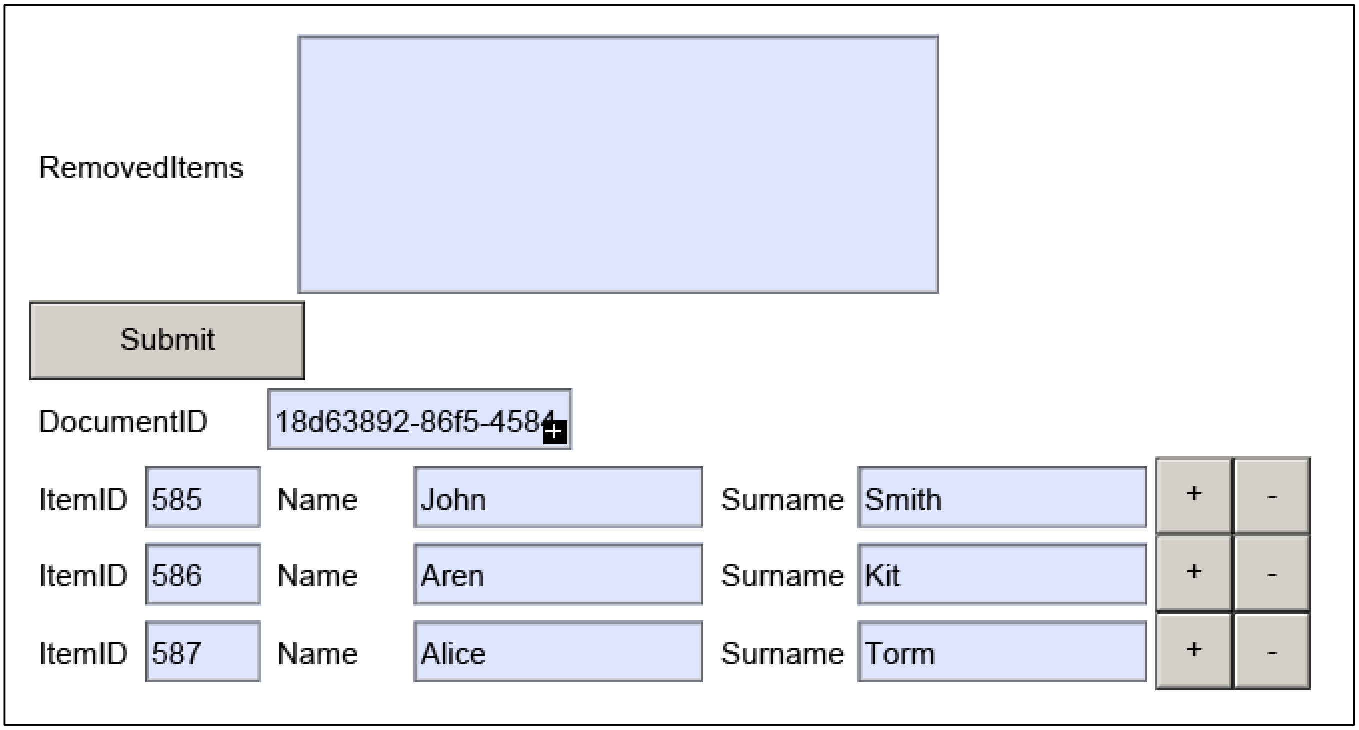
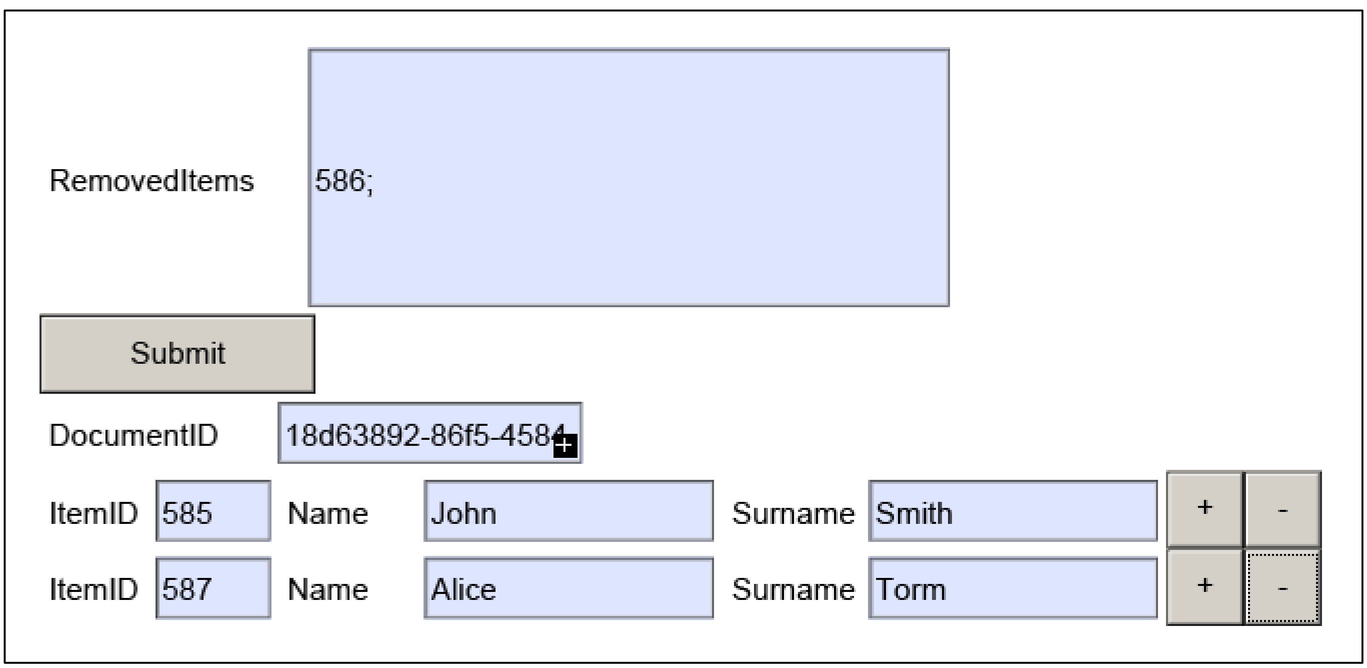
Step 2. Re-open submitted form. All nodes contain information about **ItemID**, which they are connected to



Step 3. Click on Remove Item button (n this example near **Aren Kit** node with **586 ItemID**):



RemovedItems field contains ID of item which was deleted.

Click **Submit**.

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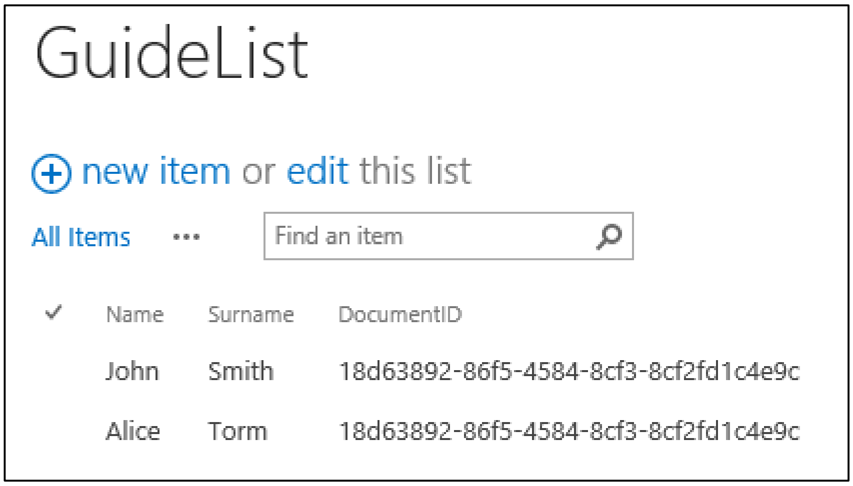
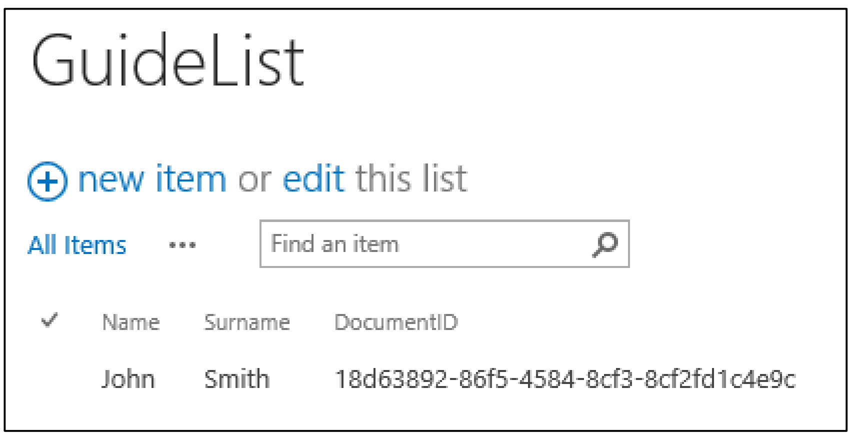
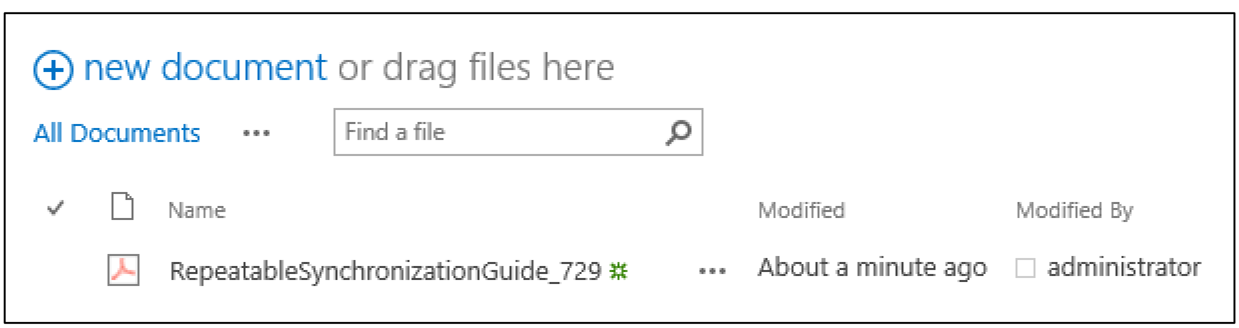
Aren Kit is removed from the list



Step 4. Remove item from the list (in this example **John Smith** is removed)



Open document, which was connected with this item



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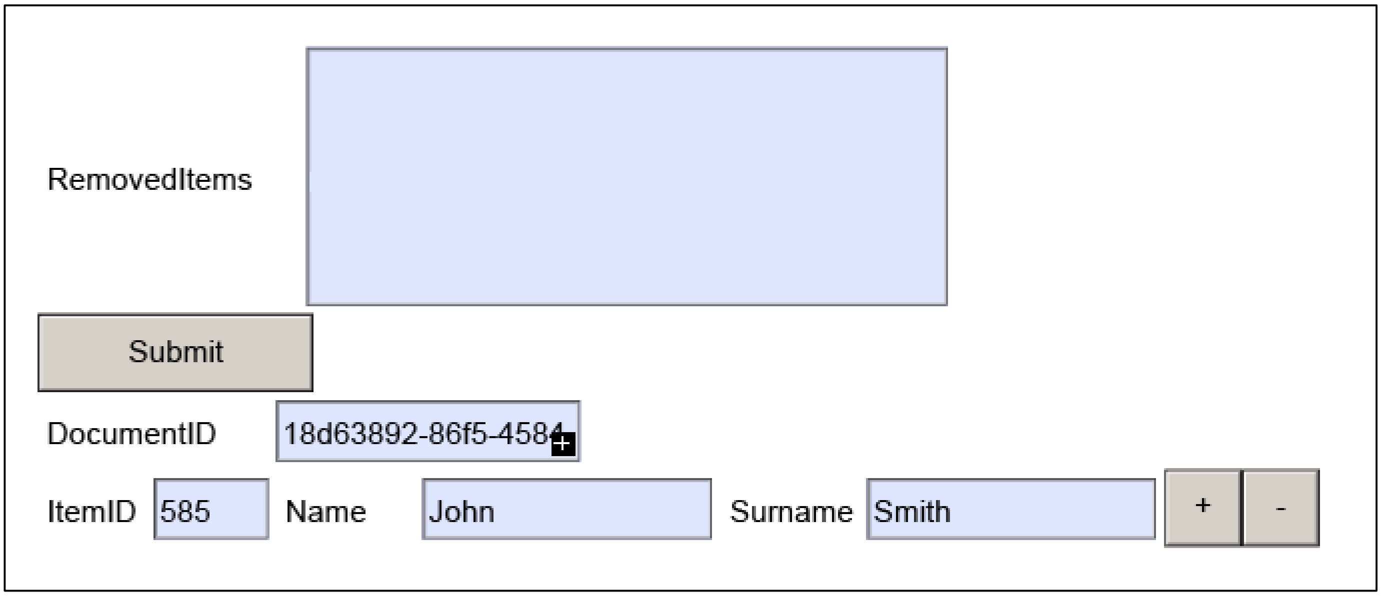
Item, which was deleted in the list, is removed in the form.



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Form Submit script

```
data.resolveNode("DocumentID").Value = form.DocumentID.ToString();
SPListItemCollection listItems = currentWeb.Lists["GuideList"].Items;
SPList list = currentWeb.Lists["GuideList"]; //list name is marked with red - it must be specified
                                              for proper case
if(form.IsNew()){
//Add new items to the list
    foreach (XElement node in data.Root.Elements("RepeatableSubform1"))
      {
        SPListItem item = listItems.Add();
             item["Name"] = node.Element("Name").Value;
      item["Surname"] = node.Element("Surname").Value;
        item["DocumentID"] = form.DocumentID.ToString();
      item.Update();
      }
}
else{
    foreach (XElement node in data.Root.Elements("RepeatableSubform1")){

        if(node.Element("ItemID").Value == "")
        {
             //Add new items to the list when form is not new
             SPListItem item = listItems.Add();
                    item["Name"] = node.Element("Name").Value;
             item["Surname"] = node.Element("Surname").Value;
             item["DocumentID"] = form.DocumentID.ToString();
             item.Update();
             node.Element("ItemID").Value = item.ID.ToString();
        }
        else
        {
             //Update items in the list
             SPListItem item = listItems.GetItemById(int.Parse(node.Element("ItemID").Value));
             item["Name"] = node.Element("Name").Value;
             item["Surname"] = node.Element("Surname").Value;
             item.Update();
        }
    }
}
//if RemovedItems field contains IDs, on form submit items in the list with these IDs will be
deleted
if(data.resolveNode("RemovedItems").Value != "")
{
    foreach(string s in data.resolveNode("RemovedItems").Value.Split(';'))
    {
        SPListItem item = list.GetItemById(int.Parse(s));
        item.Delete();
    }
}
```

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Form Load script

```
data.resolveNode("RemovedItems").Value = "";
data.resolveNode("DocumentID").Value = form.DocumentID.ToString();
foreach (XElement node in data.Root.Elements("RepeatableSubform1"))
{
    if(node.Element("Name")==null)
    {
        node.Remove();
    }
}

if(!form.IsNew()){
      data.Root.Elements("RepeatableSubform1").Remove();
      SPList list = currentWeb.Lists["GuideList"]; //list name must be specified for proper case
      SPListItemCollection items = list.GetItems("Name", "Surname", "DocumentID");
      foreach(SPListItem item in items){
      if(item["DocumentID"].ToString()==form.DocumentID.ToString()){
                   data.Root.Add(
                         new XElement("RepeatableSubform1",
                               new XElement("ItemID", item.ID.ToString()),
                               new XElement("Name", item["Name"]),
                               new XElement("Surname", item["Surname"])));
      }
   }
}
```

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