

# Master Detail forms or how to show data from 2 forms which are referenced using ConfiForms smart fields



In this tutorial we will show you how to show a "joined view" of 2 forms and build master-detail forms



If you are new to ConfiForms, please take a few minutes to read the [Basic concepts](#) Guide, or go through the video tutorial on that page. 😊

First form with "authorsDB" with one text field (as in the tutorial above), but we will add 2 more fields to this form, to keep birthdate (birthDate of field type date) and picture of type file (to store image)

CONF: ConfiForms Form | formName = authorsDB

CONF: ConfiForms Field Definition | fieldName = author | fieldLabel = Author

CONF: ConfiForms Field Definition | fieldName = birthDate | fieldLabel = Birth Date

CONF: ConfiForms Field Definition | fieldName = pic | fieldLabel = Photo

CONF: ConfiForms Registration Control

Storage format for the form:

```
<ac:structured-macro ac:macro-id="50385208-7004-423a-8b05-899f2ce6496e" ac:name="conform" ac:schema-version="1">
  <ac:parameter ac:name="formName">authorsDB</ac:parameter>
  <ac:parameter ac:name="atlassian-macro-output-type">BLOCK</ac:parameter>
  <ac:rich-text-body>
    <p>
      <ac:structured-macro ac:macro-id="5a7b65b3-9616-48c3-8d4a-57adc5d543f4" ac:name="conform-field-definition" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">author</ac:parameter>
        <ac:parameter ac:name="fieldLabel">Authors</ac:parameter>
        <ac:parameter ac:name="type">text</ac:parameter>
      </ac:structured-macro> <br/>
      <ac:structured-macro ac:macro-id="ae9b5f7f-1f6d-4b3c-a80b-alf263a23f56" ac:name="conform-field-definition" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">birthDate</ac:parameter>
        <ac:parameter ac:name="fieldLabel">DOB</ac:parameter>
        <ac:parameter ac:name="type">date</ac:parameter>
      </ac:structured-macro>
    </p>
    <p>
      <ac:structured-macro ac:macro-id="ad378814-a600-4486-8784-5150c6dcedae" ac:name="conform-field-definition" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">pic</ac:parameter>
        <ac:parameter ac:name="fieldLabel">Photo</ac:parameter>
        <ac:parameter ac:name="type">file</ac:parameter>
      </ac:structured-macro>
    </p>
    <ac:structured-macro ac:macro-id="863609e6-74dc-4c10-960f-4050f537f6d5" ac:name="conform-entry-register" ac:schema-version="1">
      <ac:parameter ac:name="atlassian-macro-output-type">INLINE</ac:parameter>
      <ac:rich-text-body> </ac:rich-text-body>
    </ac:structured-macro>
  </p>
</ac:rich-text-body>
```

And another form "bookshelf" with 3 fields, as in the original tutorial to store author's books. This form will have 2 text fields and one of "smart dropdown" which will reference author details from "authorsDB" form

CONF: ConfiForms Form | formName = bookshelf

CONF: ConfiForms Field Definition | fieldName = bookTitle | fie...

CONF: ConfiForms Field Definition | fieldName = author | fieldL...

CONF: ConfiForms Field Definition | fieldName = bookISBN | fiel...

CONF: ConfiForms Registration Control

Storage format for the form:

```
<ac:structured-macro ac:macro-id="8407313e-aaaa-4f5c-8684-c9cff64899e3" ac:name="confiform" ac:schema-version="1">
  <ac:parameter ac:name="formName">bookshelf</ac:parameter>
  <ac:parameter ac:name="atlassian-macro-output-type">BLOCK</ac:parameter>
  <ac:rich-text-body>
    <p>
      <ac:structured-macro ac:macro-id="57723e05-6551-48aa-89b7-4b6851d21956" ac:name="confiform-field-definition" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">bookTitle</ac:parameter>
        <ac:parameter ac:name="fieldLabel">Title</ac:parameter>
        <ac:parameter ac:name="type">text</ac:parameter>
        <ac:parameter ac:name="required">true</ac:parameter>
      </ac:structured-macro>
    </p>
    <p>
      <ac:structured-macro ac:macro-id="eee2fd00-2de6-4bd0-af92-e52bfd2eef33" ac:name="confiform-field-definition" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">author</ac:parameter>
        <ac:parameter ac:name="fieldLabel">Author</ac:parameter>
        <ac:parameter ac:name="values">[3670191|authorsDB|author|true||]</ac:parameter>
        <ac:parameter ac:name="type">smartselect</ac:parameter>
      </ac:structured-macro>
    </p>
    <p>
      <ac:structured-macro ac:macro-id="28b00980-aa09-488f-8a8b-31ec5e916737" ac:name="confiform-field-definition" ac:schema-version="1">
        <ac:parameter ac:name="css">width:120px</ac:parameter>
        <ac:parameter ac:name="fieldName">bookISBN</ac:parameter>
        <ac:parameter ac:name="fieldLabel">ISBN</ac:parameter>
        <ac:parameter ac:name="type">text</ac:parameter>
        <ac:parameter ac:name="validation">^[a-zA-Z0-9]*$</ac:parameter>
      </ac:structured-macro>
      <ac:structured-macro ac:macro-id="69f39e1f-31e8-47f2-a354-01e5422c983d" ac:name="confiform-entry-register" ac:schema-version="1">
        <ac:parameter ac:name="atlassian-macro-output-type">INLINE</ac:parameter>
        <ac:rich-text-body> </ac:rich-text-body>
      </ac:structured-macro>
    </p>
  </ac:rich-text-body>
</ac:structured-macro>
```

The configuration for "author" field definition

## Edit 'ConfiForms Field Definition' Macro

alphanumeric

Field label \*

Author

☐ Required \*

Field type

Smart Dropdown

Page where the ConfiForm Form is defined

~sash:Authors

Form name

authorsDB

Field name(s)

Authors [author]

☒ Reference to values

Preview

Select macro

Save

Cancel

So it references the form "authorsDB" located in "sash space on page with title "Authors"", and it references by default a field name in that form called "author"

Here is how you can show list of books, and take author name and author's date of birth into resultset

List of books

CONF: ConfiForms ListView | formName = bookshelf

CONF: ConfiForms Field | fieldName = bookTitle

by

CONF: ConfiForms Field | fieldName = author.author

(DOB:

CONF: ConfiForms Field | fieldName = author.birthDate... )

Storage format is as follows

```
<h2>List of books</h2>
<ac:structured-macro ac:macro-id="da871a82-c20c-4bea-acb0-1ae4c6e5b049" ac:name="confi-form-list" ac:schema-version="1">
  <ac:parameter ac:name="formName">bookshelf</ac:parameter>
  <ac:rich-text-body>
    <p>
      <strong>
        <ac:structured-macro ac:macro-id="e61e3a7a-09e2-49b9-be23-9877195b9dec" ac:name="confi-form-field" ac:schema-version="1">
          <ac:parameter ac:name="fieldName">bookTitle</ac:parameter>
        </ac:structured-macro>
      </strong> by <ac:structured-macro ac:macro-id="74d700f8-60c2-471d-8a7c-19027bcb1cd2" ac:name="confi-form-field" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">author.author</ac:parameter>
      </ac:structured-macro> (DOB: <ac:structured-macro ac:macro-id="ce387217-00a8-4af6-adfc-0274c4bfb4a0" ac:name="confi-form-field" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">author.birthDate</ac:parameter>
      </ac:structured-macro>) </p>
    </ac:rich-text-body>
  </ac:structured-macro>
```

As you can see we can easily reference a field value in another form, references from current form, in this particular example we reference not only author name (using author.author "fieldname accessor"), but we also reference authors date of birth (DOB), using "author.birthDate" accessor

End result on the page:

## List of books

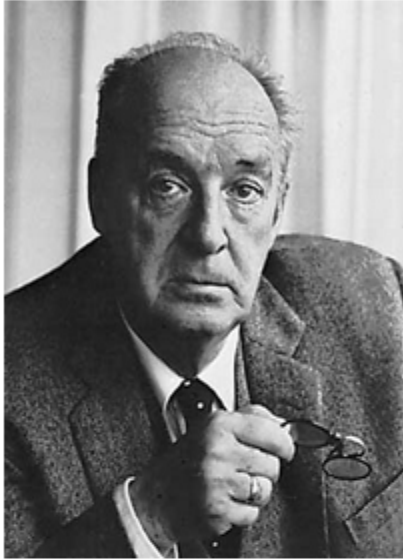
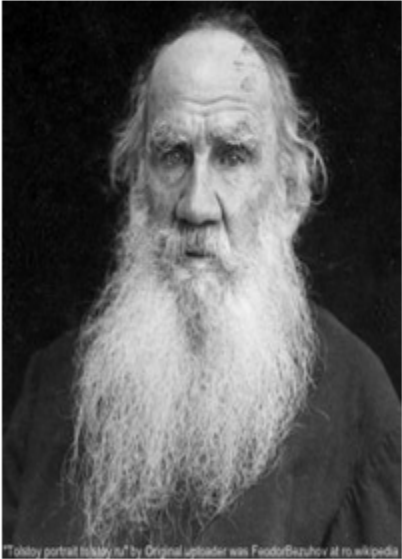
**Lolita** by Vladimir Nabokov (DOB: Apr 22, 1899)

**War and peace** by Leo Tolstoy (DOB: Sep 9, 1828)

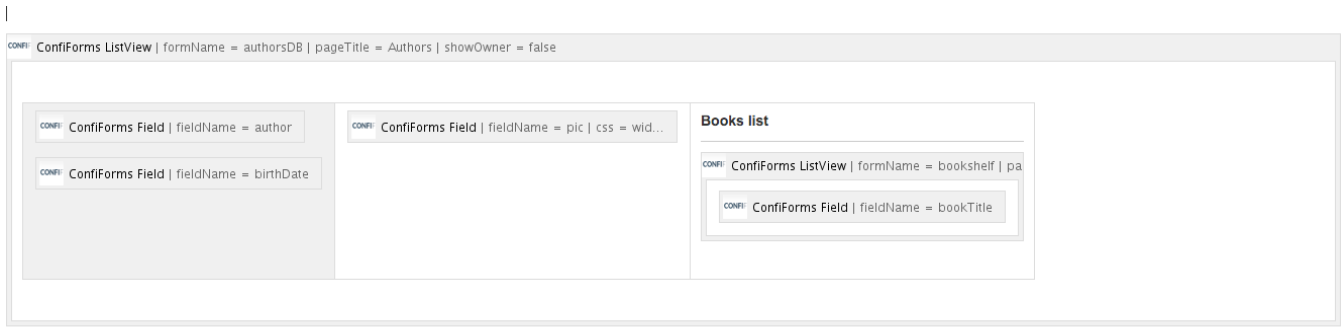
But what if we need to show author's together with the books they wrote?

Easy with ConfiForms. We will use filters and dynamic nature of filtering when used with ListView macros

The end result will look like this:

<b>Vladimir Nabokov</b>  Apr 22, 1899		<b>Books list</b> <hr/> Lolita
<b>Leo Tolstoy</b>  Sep 09, 1828	 <small>Tolstoy portrait history on 4 by Original uploader was FendofRazuhov at en.wikipedia</small>	<b>Books list</b> <hr/> War and peace

Here how the storage format looks like in the editor to do that:



The storage format

```

<ac:structured-macro ac:macro-id="e129ebe8-bb01-4687-a92c-ce9144775a50" ac:name="conform-list" ac:schema-
version="1">
  <ac:parameter ac:name="pageTitle">
    <ac:link>
      <ri:page ri:content-title="Authors"/>
    </ac:link>
  </ac:parameter>
  <ac:parameter ac:name="formName">authorsDB</ac:parameter>
  <ac:parameter ac:name="showOwner">false</ac:parameter>
  <ac:parameter ac:name="atlassian-macro-output-type">BLOCK</ac:parameter>
  <ac:rich-text-body>
    <table>
      <tbody>
        <tr>
          <th>
            <h3>
              <ac:structured-macro ac:macro-id="5a4cc598-5085-4b82-8019-be3a14b7c0d7" ac:name="conform-field"
ac:schema-version="1">
                <ac:parameter ac:name="fieldName">author</ac:parameter>
              </ac:structured-macro>
            </h3>
            <p>
              <ac:structured-macro ac:macro-id="da4b326d-2705-4ca8-a888-d6d03523e8b6" ac:name="conform-field"
ac:schema-version="1">
                <ac:parameter ac:name="fieldName">birthDate</ac:parameter>
              </ac:structured-macro>
            </p>
          </th>
          <td>
            <ac:structured-macro ac:macro-id="5d0b4f61-989c-497a-830d-0dc37ebe31eb" ac:name="conform-field"
ac:schema-version="1">
              <ac:parameter ac:name="css">width:200px; height:279px</ac:parameter>
              <ac:parameter ac:name="fieldName">pic</ac:parameter>
            </ac:structured-macro>
            </td>
          <td colspan="1">
            <p>
              <strong>Books list</strong>
            </p>
            <hr/>
            <ac:structured-macro ac:macro-id="b2c54812-584b-4187-9951-65d0533a8dbd" ac:name="conform-list" ac:
schema-version="1">
              <ac:parameter ac:name="filter">author:[entry.id]</ac:parameter>
              <ac:parameter ac:name="pageTitle">
                <ac:link>
                  <ri:page ri:content-title="Bookshelf"/>
                </ac:link>
              </ac:parameter>
              <ac:parameter ac:name="formName">bookshelf</ac:parameter>
              <ac:rich-text-body>
                <p>
                  <ac:structured-macro ac:macro-id="20923614-a02b-401b-a41f-585664f9d7ed" ac:name="conform-
field" ac:schema-version="1">
                    <ac:parameter ac:name="fieldName">bookTitle</ac:parameter>
                  </ac:structured-macro>
                </p>
              </ac:rich-text-body>
            </ac:structured-macro>
          </td>
        </tr>
      </tbody>
    </table>
    <p> </p>
  </ac:rich-text-body>
</ac:structured-macro>

```

Important bits here are these ones:

### Books list

CONF: ConfiForms ListView | formName = bookshelf | pa

CONF: ConfiForms Field | fieldName = bookTitle

EditRemove

## Edit 'ConfiForms ListView' Macro

List view for Confluence ConfiForms plugin [Documentation](#)

ConfiForms Form name \*

Page name where the form is defined

Leave blank if the form is defined on the same page

Filter to apply on entries dataset

See examples in macro preview on the left, under the spoiler

Ordering/Sorting rules to apply on entries dataset

### Preview

✓

**Visible only in PREVIEW**

Configuration helper for ListViews, TableViews, CardViews, CalendarViews and Registration Control macros

[Show](#)

[Select macro](#)

SaveCancel

The ListView references a bookshelf form from the page "Bookshelf" and uses dynamic filter: author:[entry.id]

This [entry.id] references an author record, and it's ID. And this will be substituted with a real value before rendering. This will give us the result we desire.

Now you know how to do "Master/Detail Form" with ConfiForms!