The DSpace Course - Metadata Input Customisation

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The DSpace Course

Metadata Input Customisation
By the end of this module you will:

- Understand which part of the submission process can be customised
- Understand about input-forms.xml specifically:
  - Field Definitions
  - Field Types
- Have modified the DSpace submission process
The Submission Process

- In module ‘Introduction to Items’ an item was submitted using the default submission process
- This submission process can be customised allowing:
  - Adding additional metadata to be collected about an item
  - Individual collections to have unique metadata for their items
The forms used during a submission of an item via the UI are created based on

[dspace]/config/input-forms.xml

Detailed information can be found in

[dspace]/docs/submission.html

The input-forms.xml consists of the top level element `<input-forms>` which contains 3 elements:

- `<form-map>` Mapping defined forms to collections
- `<form-definitions>` Definition of single forms
- `<form-value-pairs>` Definition of selection lists
The form-map maps collection handles to forms

Each `<form-map></form-map>` has 2 attributes:
- collection-handle="collectionHandle" ("default" if not selected)
- form-name="formName" (e.g. `<form name="myForm">`)
The form-definitions map lays out the detailed definition of all the submission forms which contain the metadata field entries.

Each separate form set has a unique name as an attribute. This name matches one of the names in the form-map.

A form called “traditional” has been defined in this form definition.

```xml
<input-forms>
  <!-- Form Set Definitions -->
  <form-definitions>
    <form name="traditional">
      ...
    </form>
  </form-definitions>
</input-forms>
```
A form is created with `<form></form>`

Each form has the attribute name e.g. `<form name="myForm">`

This name is used to map a form to a collection.

A form may consist of up to 3 elements:

- `<page></page>`
- `<field></field>`
- `<page number="1">`
A `<field>` consists of:

<table>
<thead>
<tr>
<th><code>&lt;field&gt;</code> Name</th>
<th>Mandatory?</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;dc-schema&gt;</code></td>
<td>True</td>
<td>metadata schema name</td>
</tr>
<tr>
<td><code>&lt;dc-element&gt;</code></td>
<td>True</td>
<td>metadata element</td>
</tr>
<tr>
<td><code>&lt;dc-qualifier&gt;</code></td>
<td>False</td>
<td>metadata qualifier</td>
</tr>
<tr>
<td><code>&lt;repeatable&gt;</code></td>
<td>True</td>
<td>Values: true or false Marks a field as repeatable.</td>
</tr>
<tr>
<td><code>&lt;label&gt;</code></td>
<td>True</td>
<td>Label used in UI</td>
</tr>
<tr>
<td><code>&lt;input-type&gt;</code></td>
<td>True</td>
<td>Type of input field</td>
</tr>
<tr>
<td><code>&lt;hint&gt;</code></td>
<td>True</td>
<td>Hint used in UI</td>
</tr>
<tr>
<td><code>&lt;required&gt;</code></td>
<td>True</td>
<td>If completed, the field is marked as mandatory.</td>
</tr>
</tbody>
</table>

```xml
<field>
    <dc-schema>dc</dc-schema>
    <dc-element>contributor</dc-element>
    <dc-qualifier>author</dc-qualifier>
    <repeatable>true</repeatable>
    <label>One: Authors</label>
    <input-type>name</input-type>
    <hint>Enter the names of the authors of this item below.</hint>
    <required></required>
</field>
```
## Form Definitions - Fields

### The input-type:

<table>
<thead>
<tr>
<th>Input-type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>onebox</td>
<td>Single boxes for short text</td>
</tr>
<tr>
<td>twobox</td>
<td>A pair of single boxes</td>
</tr>
<tr>
<td>textarea</td>
<td>A text area</td>
</tr>
<tr>
<td>name</td>
<td>A pair of text boxes for personal names</td>
</tr>
<tr>
<td>date</td>
<td>At least a year must be given</td>
</tr>
<tr>
<td>dropdown</td>
<td>A selection list</td>
</tr>
<tr>
<td>qualdrop-value</td>
<td>A selection list combined with a single text box</td>
</tr>
</tbody>
</table>

1. **Title**: Enter the main title of the item.

2. **Series/Report No.**: Enter the series or report number.

3. **Abstract**: Enter the abstract of the item below.

4. **Authors**: Last name (e.g. Smith) First name(s) + "Jr" (e.g. Donald Jr)

5. **Date Issued**: Month: (No Month) Day: Year:

6. **Language**: N/A, English (United States), English, Spanish
Form Value Pairs

- Form-value-pairs populate dropdown and qualdrop-value lists.
- The form-value-pairs element holds child elements named 'value-pairs'
- A form value pair has two attributes:
  - value-pairs-name
  - dc-term

```xml
</input-forms>
<-- Name/Value Pairs used within Multiple Choice Widgets -->
<form-value-pairs>
  <value-pairs value-pairs-name="common_identifiers" dc-term="identifier">
    <pair>
      <displayed-value>ISSN</displayed-value>
      <stored-value>issn</stored-value>
    </pair>
    .....  
  </form-value-pairs>
</input-forms>
```
Create a new collection called ‘**Metadata**’ as specified in the module ‘**Repository Structure**’

Once created, navigate into the collection, click edit on the ‘**admin tools**’ menu and note its handle id i.e. 123456789/422

Open a terminal window

Navigate to [dspace]/config

Open the input-forms.xml using gedit: type ‘**gedit input-forms.xml**’

Locate the lines:

```xml
<form-map>
  <name-map collection-handle="default" form-name="traditional" />
</form-map>
```
Add an additional line setting:

- collection-handle="<Your collection ID>"
- form-name="one"

This forces any submission into this collection to use a different input form.

Restart Tomcat

Submit an item to your newly created collection as specified in the module ‘Introduction to Items’

The submission form input should now modified

Enter the names of the authors of this item below.

Last name
  e.g. Smith

First name(s) + “Jr”
  e.g. Donald Jr

One: Authors
These slides have been produced by:

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