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>` has 2 attributes:
- `collection-handle="collectionHandle"` ("default" if not selected)
- `form-name="formName"` (e.g. `<form name="myForm">`)

```xml
<input-forms>
<form-map>
  <name-map collection-handle="default" form-name="traditional" />
  <name-map collection-handle="110" form-name="one" />
</form-map>
</input-forms>
```

Collection 123456789/110 has a form called ‘one’ defined
- 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>
```
Form Definitions

- 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">`
### Form Definitions - Fields

- **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></td>
<td>metadata qualifier</td>
</tr>
<tr>
<td><code>&lt;repeatable&gt;</code></td>
<td></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></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/>
</field>
```
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


3. Abstract

4. Authors

5. Date Issued

6. Language

- Last name e.g. Smith
- First name(s) + "Jr" e.g. Donald Jr

- N/A
- English (United States)
- English
- Spanish
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

<!-- 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>
    ......
  </value-pairs>
</form-value-pairs>
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>
```
Practical: Metadata Customisation

- Add an additional line setting:
  - `collection-handle="<Your collection ID>"`
  - `form-name="one"`

```
<form-map>
  <name-map collection-handle="default" form-name="traditional" />
  <name-map collection-handle="123456789/422" form-name="one" />
</form-map>
```

- 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

![Authors input form](image)
These slides have been produced by:

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