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">`)

```
<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>
```
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;&lt;/dc-schema&gt;</code></td>
<td>True</td>
<td>metadata schema name</td>
</tr>
<tr>
<td><code>&lt;dc-element&gt;&lt;/dc-element&gt;</code></td>
<td>True</td>
<td>metadata element</td>
</tr>
<tr>
<td><code>&lt;dc-qualifier&gt;&lt;/dc-qualifier&gt;</code></td>
<td></td>
<td>metadata qualifier</td>
</tr>
<tr>
<td><code>&lt;repeatable&gt;&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;&lt;/label&gt;</code></td>
<td>True</td>
<td>Label used in UI</td>
</tr>
<tr>
<td><code>&lt;input-type &gt;&lt;/input-type&gt;</code></td>
<td>True</td>
<td>Type of input field</td>
</tr>
<tr>
<td><code>&lt;hint&gt;&lt;/hint&gt;</code></td>
<td>True</td>
<td>Hint used in UI</td>
</tr>
<tr>
<td><code>&lt;required&gt;&lt;/required&gt;</code></td>
<td></td>
<td>If completed, the field is marked as mandatory.</td>
</tr>
</tbody>
</table>

```xml
<form>
  <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>
```
Form Definitions - Fields

- The input-type:

<table>
<thead>
<tr>
<th>Input-type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 onebox</td>
<td>Single boxes for short text</td>
</tr>
<tr>
<td>2 twobox</td>
<td>A pair of single boxes</td>
</tr>
<tr>
<td>3 textarea</td>
<td>A text area</td>
</tr>
<tr>
<td>4 name</td>
<td>A pair of text boxes for personal names</td>
</tr>
<tr>
<td>5 date</td>
<td>At least a year must be given</td>
</tr>
<tr>
<td>6 dropdown</td>
<td>A selection list</td>
</tr>
<tr>
<td>7 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 name of the series or report and the report or paper 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>
      ..... 
    </value-pairs>
  </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"

```
<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
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