XML Forms

Overview

XML Forms is a collection of Drupal modules that allow for the manipulation of XML documents though Drupal forms. The Islandora Form Builder (XML_Forms modules) makes it possible for users to create, copy, and edit ingest forms, and to affiliate them with Content Models in the repository.

The following Modules are installed as part of the XML Forms package. See inline documentation for additional details.

- Objective Forms
- Islandora XML Form API
- Islandora XML Schema API
- Islandora XML Form Elements
- Islandora XML Form Builder
- Islandora XML Forms

Objective Forms

This module allows for the creation of Object Based Drupal Forms. It provides a number of functions and class for processing/populating forms.

Some important notes.

- Each Form Element is assigned a unique hash Form Property to identify it, **#hash**.
- Each Form Element that is created is stored in a registry and it will persist though out the lifetime of the form even if it's removed from the form. Ancestry of Form Elements is stored so if a Form Element is cloned we will be able to determine the Form Element that it was cloned from.
- Form Properties can be objects. To define new Form Properties implement the hook **objectify_properties**.
- Forms will be auto-populated from $form_states[‘values’].
- There is a **FormStorage** class that can be used to store any persistent data.

Islandora XML Form API

The core of the library this module provides functions for processing XML files through forms.

In essence this module models

- The form to be processed.
- The Form Properties needed to manipulate XML
- The XML document to be manipulated
- The actions required to generate repeating Form Elements (tabs,tags) from the XML document
- The schema needed to determine the insert locations of elements and the validation requirements. (included via the **Islandora XML Schema API**)

Islandora XML Schema API

This module provides functions for processing Schema files. It's used to determine where to insert XML Nodes, and how to validate them.

Islandora XML Form Elements

This module defines custom Drupal Form Elements along with AHAH callbacks.

Elements

tabs/tabpanels

These Form Elements are used to model XML Nodes that can repeat and contain other XML Nodes.

Example:

```
<cntaddr> <!-- tabpanel one -->

<addrtype>undefined</addrtype>

<city>undefined</city>

<!-- ... -->

</cntaddr>

<cntaddr> <!-- tabpanel two -->

<addrtype>one</addrtype>

<!-- ... -->

</cntaddr>
```

tags/tag

These Form Elements are used to model XML Nodes that can repeat and contain only character data.

Example:

```
<origin>test</origin> <!-- tag #1 --> <origin>undefined</origin> <!-- tag #2 -->
<origin>testing</origin> <!-- tag #3 -->
```

Tutorials

Dependencies

Islandora.ca modules:

- Islandora XML Form API
- Islandora XML Form Builder
- Islandora XML Form Elements
- Islandora XML Schema API

- Objective Forms
- PHP Lib