

Exercise Solutions

Section 7 Lesson 3. System Configuration XML

Exercise 1: Create a Text Field and a Select Option in the System Configuration

Use your IDE to do this exercise.

Step 1. Create two module-related options in the backend system configuration, one as a text field and the other as a select control with custom source model

- Create the file `app/code/local/Training/Distributor/etc/system.xml`.
- Add configuration for a new tab and a new section.

```
<?xml version="1.0"?>
<config>
    <tabs>
        <training translate="label"
module="training_distributor">
            <label>Training</label>
            <sort_order>506</sort_order>
        </training>
    </tabs>
    <sections>
        <training_distributor translate="label"
module="training_distributor">
            <label>Distributors</label>
            <sort_order>10</sort_order>
            <tab>training</tab><!-- associate with new tab from
above -->
            <show_in_default>1</show_in_default>
            <show_in_website>1</show_in_website>
            <show_in_store>1</show_in_store>
            <groups>
                <!-- group configuration will be added here -->
            </groups>
        </training_distributor>
    </sections>
</config>
```

Note: By default, sections, groups, and fields will not be displayed in a scope unless the scope's `show_in_...` field is specified.

- c) In the `<groups>` node, add the following.

```
<general translate="label" module="training_distributor">
  <label>General Settings</label>
  <sort_order>10</sort_order>
  <show_in_default>1</show_in_default>
  <show_in_website>1</show_in_website>
  <show_in_store>1</show_in_store>
  <fields>
    <!-- configuration for the fields will be added here -->
  </fields>
</general>
```

- d) Finally, add the configuration for the fields in the `<fields>` node.

```
<!-- "training_distributor/general/default" field -->
<default_distributor translate="label" module="training_distributor">
  <label>Default Distributor</label>
  <frontend_type>text</frontend_type><!-- form input type -->
  <sort_order>10</sort_order>
  <show_in_default>1</show_in_default>
  <show_in_website>1</show_in_website>
  <show_in_store>1</show_in_store>
</default_distributor>

<!-- "training_distributor/general/show_distributors" field -->
<show_distributor translate="label comment tooltip"
module="training_distributor">
  <label>Display Distributors</label>
  <frontend_type>select</frontend_type><!-- form input type -->
  <!-- define custom source model to provide options to the select -->
  <source_model>training_distributor/system_config_source_show</source_
model>
  <sort_order>20</sort_order>
  <show_in_default>1</show_in_default>
  <show_in_website>1</show_in_website>
  <show_in_store>1</show_in_store>
  <comment>Display distributor on product page</comment>
  <tooltip>Change this to "Show" to display the "Default Distributor"
field</tooltip>
</show_distributor>
```

Note: In the configuration above all strings which are rendered will be translated because their nodes are passed in to the `translate` attribute.

- e) Next, create the file *Training/Distributor/Model/System/Config/Source/Show.php*. In this file, define the appropriate class and a `toOptionArray()` method, which is the default method used to populate the select box options.

```
<?php

class Training_Distributor_Model_System_Config_Source_Show
{
    public function toOptionArray()
    {
        return array(
            array(
                'value' => 1,
                'label' => Mage::helper('training_distributor')-
>__('Show')
            ),
            array(
                'value' => 0,
                'label' => Mage::helper('training_distributor')-
>__('Hide')
            ),
        );
    }
}
```

Note: See `Mage_Adminhtml_Block_System_Config_Form::initFields()` for other model (and other) field configuration options.

- f) Before the new section can be accessed it must be added to the ACL tree. Add the following configuration XML to the Training_Distributor *adminhtml.xml* file inside of the `<acl>` node (`config/acl`).

```
<!-- Add node for Training_Distributor to system config section -->
<resources>
  <admin>
    <children>
      <system>
        <children>
          <config>
            <children>
              <training_distributor

translate="title"
module="training_distributor">

      <title>Distributor Configuration</title>
                                </training_distributor>
                                </children>
          </config>
        </children>
      </system>
    </children>
  </admin>
</resources>
```

- g) Refresh the configuration cache, log out of the Admin, and log back in. This will refresh the user's ACL permissions in the user session.

Step 2. Make the first option dependent on the second

- a) Add the following XML structure to the *adminhtml.xml* file in the `<default_distributor>` node.

```
<depends>
  <show_distributor>1</show_distributor>
</depends>
```

Note: The above configuration will cause the `default_distributor` input and label to be hidden via JavaScript unless the value of the `show_distributor` field is 1.

- b) To test, refresh the Config and Block HTML caches and reload the system configuration Admin page.