

Exercise Solutions

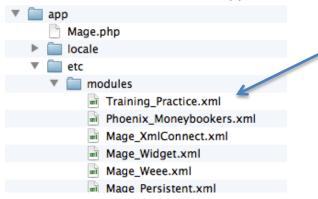
Section 2 Lesson 6. Configuration XML

Exercise 1. Register and Create an Empty Module

Use your IDE to do this exercise.

Step 1. Create a module registration file named *Training_Practice.xml*

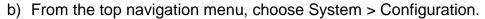
a) Create a new XML file named app/etc/modules/Training_Practice.xml.

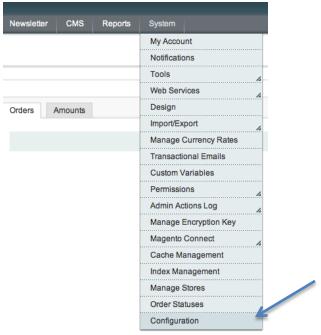


b) Add the following content to the file app/etc/modules/Training_Practice.xml.

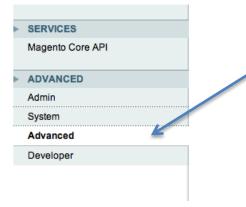
Step 2. Check that your module is listed in the system configuration section Advanced > Advanced

a) Log in to the Admin interface.





c) Click the "Advanced" tab on the bottom left.



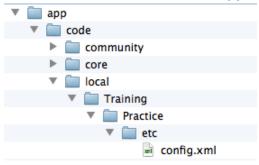
- d) Click on the blue title bar "Disable module output" to expand it.
- e) Check that your module is listed.



- f) If your module isn't listed, check the following:
 - Check that your configuration cache is disabled.
 - Verify that the XML, the file name, and the file location are correct.

Step 3. Create the module directory and an *etc/config.xml* file and specify a version 0.1.0 for your module

- a) Create the directory app/code/local/Training/Practice/etc/
 If intermediate directories don't exist, go ahead and create them.
- b) Create a new XML file named app/code/local/Training/Practice/etc/config.xml.



c) Add the following content to the file app/code/local/Training/Practice/etc/config.xml.

Step 4. Make sure your config.xml file is being read by creating some invalid markup to trigger an XML parse error

a) Remove the > character from the closing </config> node in the file app/code/local/Training/Practice/etc/config.xml and save the change. The last line now should read </config Reload any Magento page, frontend or Admin interface, to display the parse error.

```
Warning: simplexml_load_string() [function.simplexml-load-string]: Entity: line 8: parser error : expected '>' in
#0 [internal function]: mageCoreErrorHandler(2, 'simplexml_load_...', '/Volumes/Work/w...', 510, Array)
           /Volumes/Work/workspace-ssd/EE_Lite/lib/Varien/Simplexml/Config.php(510): simplexml_load_string('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadString('loadS
#4 /Volumes/Work/workspace-ssd/EE_Lite/app/code/core/Mage/Core/Model/Config.php(318): Mage_Core_Model_Config->loadM
#5 /Volumes/Work/workspace-ssd/EE_Lite/app/code/core/Mage/Core/Model/App.php(405): Mage_Core_Model_Config->loadModu
#6 /Volumes/Work/workspace-ssd/EE_Lite/app/code/core/Mage/Core/Model/App.php(336): Mage_Core_Model_App->_initModule
#7 /Volumes/Work/workspace-ssd/EE_Lite/app/Mage.php(640): Mage_Core_Model_App->run(Array)
#8 /Volumes/Work/workspace-ssd/EE_Lite/index.php(80): Mage::run('',
```

- c) If the error isn't displayed, check the following:
 - Check that the configuration cache is disabled.
 - Make sure that the path to the config.xml file matches the module name and code pool specified in the registration file.
 - Check that the folder name and file name are typed in the correct case.

Step 5. When you are sure that Magento is merging your configuration into the configuration DOM tree, fix the XML

- a) Add the > character to the closing </config> node again.
- b) Reload and confirm that the simplexml parse error is no longer displayed.

Exercise 2. Configuration & Stores

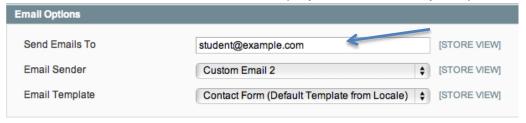
Step 1. Specify a default value for the system configuration option contacts/email/recipient_email in your etc/config.xml

- a) Open the file app/code/local/Training/Practice/etc/config.xml that you created in the previous exercise.
- b) Add the following code section to the <config> node in that file.

```
<default>
   <contacts>
      <email>
         <recipient_email>student@example.com</recipient_email>
      </email>
   </contacts>
</default>
```

Step 2. Check that it is displayed in the Admin system configuration under Contacts > Email Options

- a) Log in to the Magento Admin interface.
- b) Navigate to System > Configuration.
- c) In the left navigation, click the Contacts tab.
- d) Click on the blue bar titled "Email Options" to expand it.
- e) Check that the field "Send Emails to" displays the value that you specified.



- f) If the value isn't displayed, check the following:
 - Check that the configuration cache is disabled.
 - Make sure that the XML is correct. The <default> node must be located inside the <config> node.

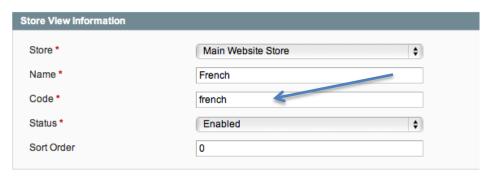
Step 3. Specify a store view scope value in the config file and check that it is shown in the Admin system configuration for the store scope

- a) To be able to specify a store scope value, first you need to find out a store code. These codes are installation dependent.
- b) Navigate to System > Manage Stores.
- c) Click on a Store View name to view its details.



If your list of stores looks different, just choose any store view that is associated with the main website.

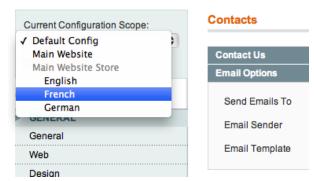
d) Take note of the exact store view code.



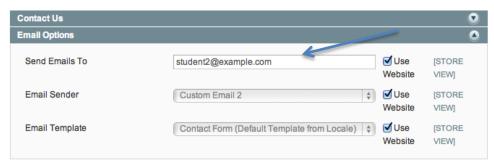
e) Add the following code to the <config> node in your modules config.xml file. The first node inside of <stores> needs to exactly match the store code.

```
<stores>
   <french>
      <contacts>
        <email>
         <recipient_email>student2@example.com</recipient_email>
        </email>
      </contacts>
   </french>
</stores>
```

- f) In the Admin interface, navigate to the contact email configuration again. Notice that the displayed contact email still matches the default configuration.
- g) Switch the store view scope using the dropdown menu in the top left corner.



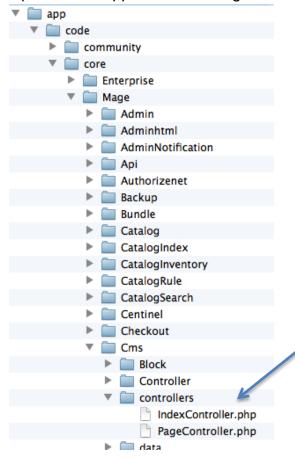
h) Notice that the contact email now matches the store view scope value that you specified in the configuration XML.



Exercise 3. Reading Configuration Values

Step 1. Open Mage_Cms_IndexController::indexAction() (the home page) and display contacts/email/recipient_email using the first two methods discussed in this lesson





- b) Navigate to the method public function indexAction().
- c) Insert this code at the beginning of the method.

```
public function indexAction($coreRoute = null)
    echo Mage::getStoreConfig('contacts/email/recipient_email');
```

d) Reload the home page, and notice that it displays the option value at the top of the screen.



e) Switch to the store you specified as a store scope value, and notice that Magento now displays a store scope value.

student2@example.com

Language: French (Char

- f) Switch back to the default store view.
- g) Specify a store code as the second parameter to the Mage::getStoreConfig() method call in indexAction().

```
public function indexAction($coreRoute = null)
{
    echo Mage::getStoreConfig(
         'contacts/email/recipient_email', 'french'
);
```

h) Reload the frontend, and notice that now the store scope value is displayed regardless of the selected store view.

student2@example.com

gister.

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i) Change the code in the method as follows.

```
public function indexAction($coreRoute = null)
{
    $store = Mage::app()->getStore();
    echo $store->getConfig('contacts/email/recipient_email');
```

j) Reload the home page, and notice that this matches the

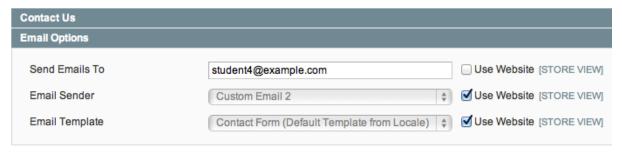
Mage::getStoreConfig() call without specifying a store.

```
public function indexAction($coreRoute = null)
{
    $store = Mage::app()->getStore('french');
    echo $store->getConfig('contacts/email/recipient_email');
```

- k) Change the Mage::app()->getStore() call to return a specific store view by passing the store code as an argument.
- Reload the home page, and notice that this matches the call to Mage::getStoreConfig() with a specified store view.

Step 2. Save a different contact email value through the Admin interface, first in default scope, then in a store scope, and notice how it overrides the values from the config files

- a) In the Magento Admin interface, navigate to the Contact Email options and switch to the default scope (if that isn't the currently selected one).
- b) Specify a different email address for the contact email recipient and click Save.
- c) In the frontend, switch to the default store scope. Notice that the new default value saved in the Admin interface overrides the default value specified in your config.xml file.
- d) In the frontend, switch to the store for which you specified a store scope value in your config.xml file, and notice that it still takes precedence over the saved default value.
- e) In the Admin interface, switch to store view scope, clear the "Use Website" checkbox, specify another email address, and save it.



f) In the frontend, switch to that store view, reload, and notice that now the store view scope value overrides the one specified in the config XML.

Step 3. Find that option value in the core_config_data table and notice how Magento stores different scope values

- a) Access phpMyAdmin or any other MySQL interface of your choice (for example, MySQL Workbench, NetBeans, or Sequel Pro).
- b) Select the Magento database and then select the table core_config_data. If you specified a table prefix during the Magento installation, adjust the table name accordingly.

c) Filter the table to display only records where the path column matches the value contacts/email/recipient email

d) Notice that the scope_id for the row with the store scope value matches the ID of the store view.

Step 4. Access contacts/contacts/enabled (a Boolean option) with Mage::getStoreConfigFlag()

a) Change your code in the indexAction() method call as follows.

```
public function indexAction($coreRoute = null)
{
  var_dump(Mage::getStoreConfigFlag('contacts/contacts/enabled'));
```

b) Reload the frontend and notice that the returned value is a Boolean.



Step 5. Display the value of the <codePool> node for your module's configuration using Mage::getConfig()->getNode()

a) Change the code in the indexAction() method call as follows.

```
public function indexAction($coreRoute = null)
{
    echo Mage::getConfig()
        ->getNode('modules/Training_Practice/codePool');
```

Notice that the full XPath inside of the <config> node is specified.

b) Reload the home page and notice that the configuration node value is displayed.

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Step 6 (Optional). Display the default contact email recipient and store scope values using Mage::getConfig()->getNode()

a) Change the code in the indexAction() method call as follows. Again, notice that the full XPath inside of the <config> node is specified.

```
public function indexAction($coreRoute = null)
    echo Mage::getConfig()
            ->getNode('default/contacts/email/recipient email');
```

- b) Reload the home page. Notice that the default scope value is displayed regardless of the selected store view.
- c) Change the code to read the store scope value: ->getNode('stores/french/contacts/email/recipient_email')
- d) Reload the frontend and notice that the specified store view value is displayed regardless of the store view selected in the store switcher.

Step 7. Revert your changes in core files

Remove all your additions to the indexAction() method in the file app/code/core/Mage/Cms/controllers/IndexController.php