# Creating a Resource Type, Part 1: Prerequisites and Declaration

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This section explains how to create a new resource type. For more information on resource types, refer to the <u>resource types reference</u> (../../../docs/1\_4/reference/resource-types.html) . For the sake of simplicity, we'll test the resource type with the default publication.

Our resource type will support storing details (name, address, etc.) of people. We'll call it *person*. Since we're too lazy (and too smart) to invent our own XML schema, we'll just use the one provided by the FoaF (http://www.foaf-project.org/) project.

### 1. Prerequisites

We'll use the following directory layout:

```
$HOME/
apache/
lenya-1.4/ The Lenya installation directory, we'll call it
$LENYA_HOME.
src/
lenya/ The home directory of your Lenya-related sources.
modules/ Our modules.
person/ Our "person" resource type module ($MODULE_HOME).
```

#### 2. Adding a Module

We'll add a module which will contain the resource type. This makes it self-contained, and it will be very easy to re-use our resource type in different publications. Create the *person* directory (see section *Prerequisites*) with the following directory layout:

```
person/
  config/
                                  Configuration of the module.
   menu.xsp
                                  The resource type menu items.
                                  Module descriptor.
    module.xml
    cocoon-xconf/
                                 Patch files for cocoon.xconf.
     resourcetype-person.xconf The declaration of our resource type.
  resources/
    icons/
      person.gif
                                  The icon for the sitetree.
  samples/
                                  Samples to create person documents.
    foaf.xml
                                  The default sample document.
  xslt/
    foaf2xhtml.xml
                                  Transform FoaF documents to XHTML.
  menus.xmap
                                  The sitemap generating the menu.
```

Each module needs a module descriptor file \$MODULE\_HOME/config/module.xml. In our case it looks like this (replace org.yourproject with your own package name):

Now we have to let Lenya know that we've added a new module. Edit the file \$LENYA\_HOME/local.build.properties and add the path to your modules directory (the parent of \$MODULE\_HOME) at the end of the modules.root.dirs declaration:

```
modules.root.dirs=...:/home/john/src/lenya/modules
```

Finally, we'll have to declare the module in the publications which use it (in our case, the default publication). Edit \$PUB\_HOME/config/publication.xml and add the entry

```
<module name="person"/>
```

to the <modules/> section.

### 3. Declaring the Resource Type

To let Lenya know that a new resource type exists, we'll add the resource type declaration file resourcetype-person.xconf. This is a patch for the cocoon.xconf file and therefore located in \$MODULE\_HOME/config/cocoon-xconf.

According to this declaration, the Lenya web application creates a new ResourceTypeImpl service on startup which makes the resource type details available to other objects.

In the <u>next section</u> (../../../docs/1\_4/tutorials/resourcetype/part2.html) we'll setup the creation of person documents.