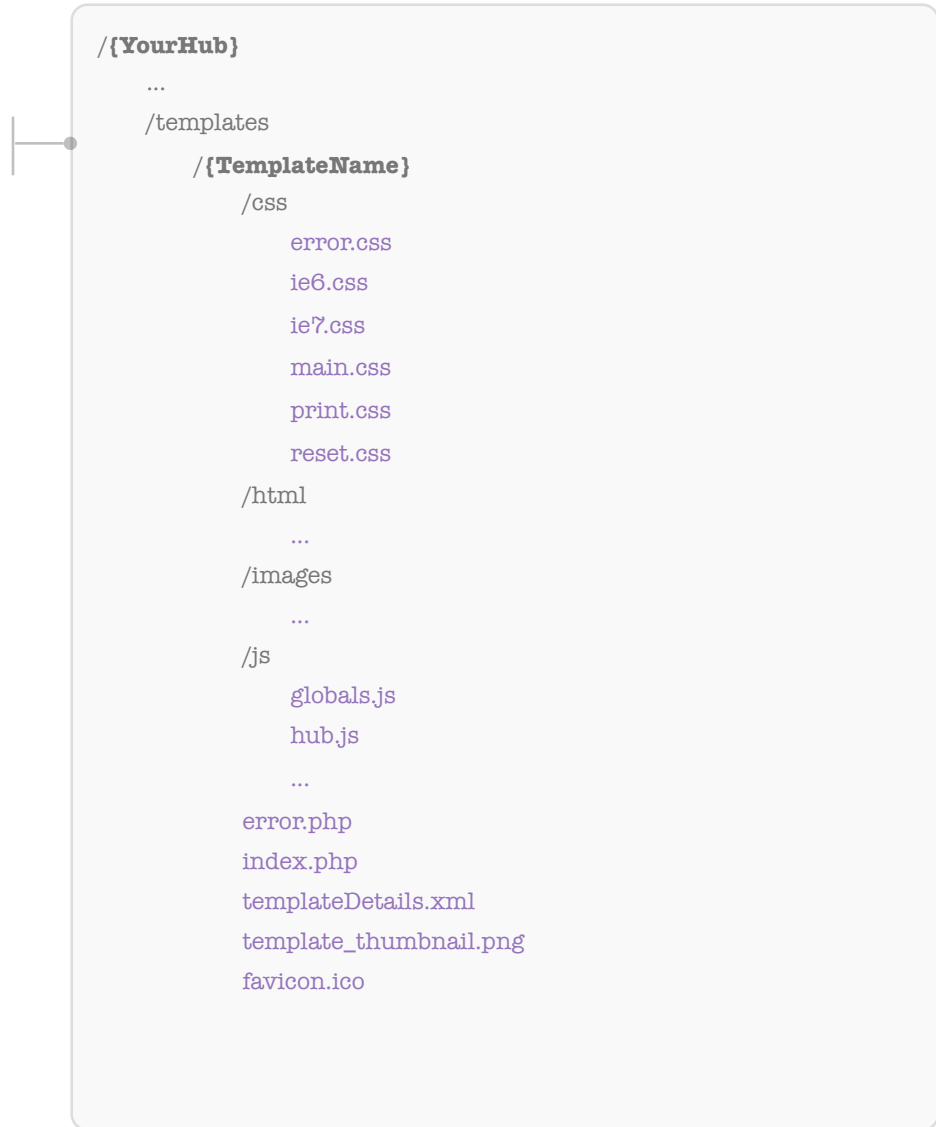|	**Version**	HUBzero 1.0
Template Structure	**Online**	http://hubzero.org/documentation/0.9.0/webdevs/templates

In Joomla!, the visual layout of both the Front-end and Back-end of your site is controlled by the Template. Templates are extensions that contain layout and style information that tells Joomla! exactly how to draw each page of your site.

A template's physical location (directories and files) is stored based on what type of template it is: Front-end or Back-end (Administrative).

- Front-end templates will be found within a directory called "templates" in the top-level directory of your hub install.

- Administrative templates are found within the directory "/administrator/templates" of your hub install.

All the following will refer to construction of a front-end template. However, the concepts, techniques, and methods used also apply to the creation of administrative (back-end) templates unless otherwise noted.

```
/{YourHub}
    ...
    /templates
        /{TemplateName}
            /css
                error.css
                ie6.css
                ie7.css
                main.css
                print.css
                reset.css
            /html
                ...
            /images
                ...
            /js
                globals.js
                hub.js
                ...
            error.php
            index.php
            templateDetails.xml
            template_thumbnail.png
            favicon.ico
```

| **Template** Structure | **Version** | HUBzero 1.0 |
| | **Online** | http://hubzero.org/documentation/0.9.0/webdevs/templates |

The templateDetails.xml file is essential. Without it, your template won't be seen by Joomla!. The file holds key "metadata" about the template such as the name of the template, author, etc.
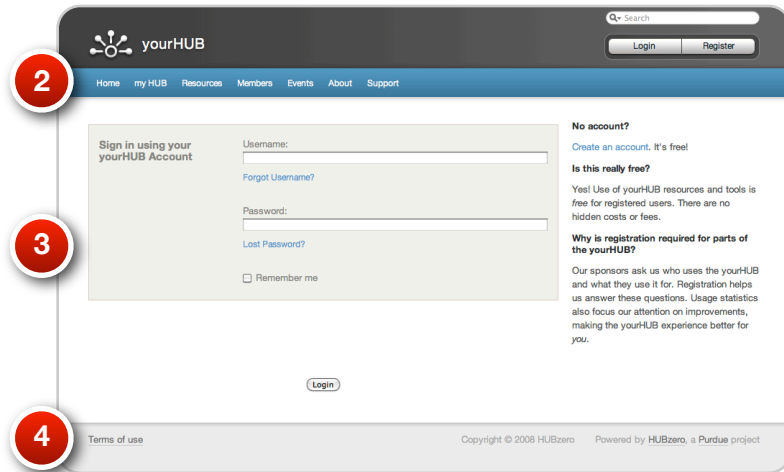
The **<files>** part should contain all the files that you use. As you will most likely be adding files, changing files, etc. during the template creation process, it is typically updated at a later time.

In order for module positions to be available for selection in the "Module Manager" they must be declared in the templateDetails.xml file for your template. The **<positions>** element in this file contains sub-elements for each Module position that is supported by the template.

```xml
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE install PUBLIC "-//Joomla! 1.5//DTD template 1.0//EN"
  "http://dev.joomla.org/xml/1.5/template-install.dtd">
 <install version="1.5" type="template">
     <name>{TemplateName}</name>
     <creationDate>2008-05-01</creationDate>
     <author>John Doe</author>
     <authorEmail>john@example.com</authorEmail>
     <authorUrl>http://www.example.com</authorUrl>
     <copyright>John Doe 2008</copyright>
     <license>GNU/GPL</license>
     <version>1.0.2</version>
     <description>My New Template</description>
     <files>
         <filename>index.php</filename>
         <filename>templateDetails.xml</filename>
         <filename>template_thumbnail.png</filename>
         <filename>images/background.png</filename>
         <filename>css/style.css</filename>
     </files>
     <positions>
         <position>left</position>
         <position>right</position>
         <position>nav</position>
         <position>footer</position>
     </positions>
</install>
```

```php
<?php defined( '_JEXEC' ) or die( 'Restricted access' );?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
 <html xmlns="http://www.w3.org/1999/xhtml"
    xml:lang="<?php echo $this->language; ?>"
    lang="<?php echo $this->language; ?>" >
    <head>
        <jdoc:include type="head" />                       1
        <link
            rel="stylesheet"
            href="<?php echo $this->baseurl;
?>/templates/mytemplate/css/main.css"
            type="text/css" />
    </head>
    <body>
        <div id="header">
            <h1>YourHub</h1>
        </div>
        <div id="nav">
            <jdoc:include type="modules" name="nav" />      2
        </div>
        <div id="content">
            <jdoc:include type="component" />              3
        </div>
        <div id="footer">
            <jdoc:include type="modules" name="footer" />  4
        </div>
    </body>
</html>
```
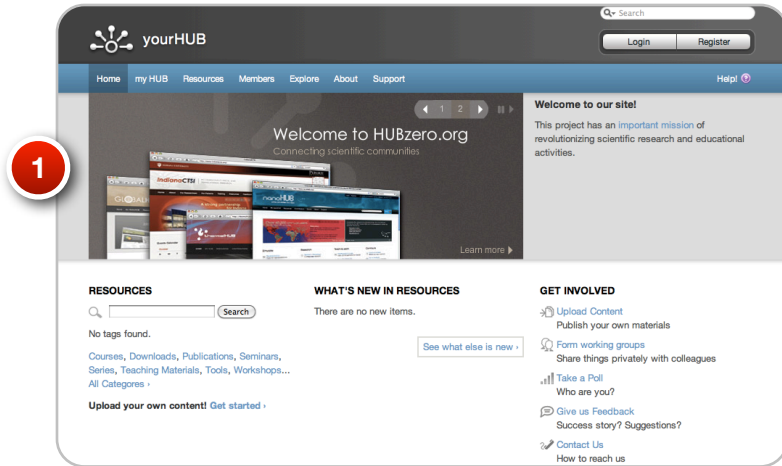
1. The first line gets Joomla! to put the correct header information in. This includes the page title, meta information as well as system JavaScript.

2. This line gets any modules assigned to the position of "nav." In this case, it'll be our main navigation bar present on every page.

3. This gets the output of whatever component you're viewing and displays it.

4. Finally, we output any modules assigned to the position of "footer." Typically, this will be copyright information, terms of service, etc.

Note: To get a visual indication of all module positions used on a page you can append "tp=1" to the URL. For example:

http://yourhub.org/members?tp=1

Sometimes, you may not want certain HTML in the page if there are no modules to show for that area. To include modules (and any associated HTML) on a conditional basis, you can use the "countModules()" method.

Note: For a more in-depth explanation, see the "Advanced Template Loading" section of the documentation:

http://hubzero.org/documentation/0.9.0/webdevs/modules.loading

```php
<?php defined( '_JEXEC' ) or die( 'Restricted access' );?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
 <html xmlns="http://www.w3.org/1999/xhtml"
    xml:lang="<?php echo $this->language; ?>"
    lang="<?php echo $this->language; ?>" >
    <head>
        <jdoc:include type="head" />
        <link
            rel="stylesheet"
            href="<?php echo $this->baseurl;
?>/templates/mytemplate/css/main.css"
            type="text/css" />
    </head>
    <body>
        <div id="header">
            <h1>YourHub</h1>
        </div>
        <div id="nav">
            <jdoc:include type="modules" name="nav" />
        </div>
<?php if ($this->countModules( 'banner' )) : ?>
        <div id="banner">
            <jdoc:include type="modules" name="banner" />
        </div>
<?php endif; ?>
        <div id="content">
            <jdoc:include type="component" />
        </div>
        <div id="footer">
            <jdoc:include type="modules" name="footer" />
        </div>
    </body>
</html>
```

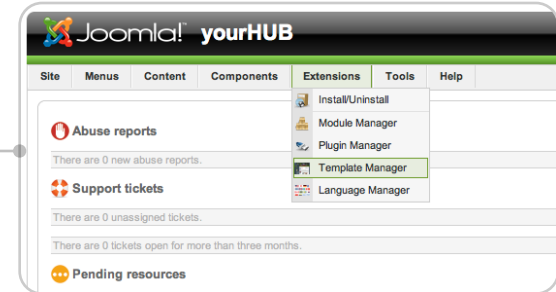|	
Template Management	**Version** HUBzero 1.0
	Online http://hubzero.org/documentation/0.9.0/managers/extensions.templates

In Joomla!, the visual layout of both the Front-end and Back-end of your site is controlled by the Template. Templates are extensions that contain layout and style information that tells Joomla! exactly how to draw each page of your site.

The Template Manager is where you assign a default Template to your Joomla! web site. You can also edit and preview Templates here.
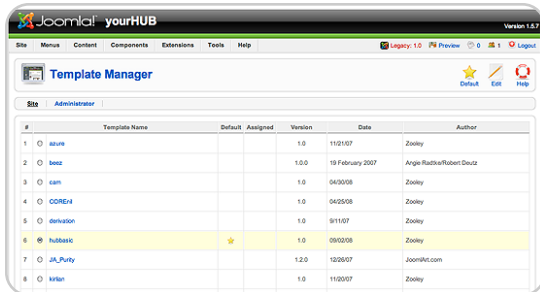

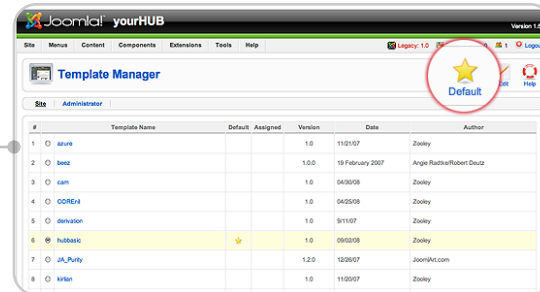Login to the administrative back-end of your hub. This can be found by going to:

http://yourhub.org/administrator

Find "Extensions" in the main menu bar located toward the top of the page. You should be presented with a drop-down menu.

Choose "Template Manager" from the available options.

You should now be presented with a list of all the installed templates, separated by front-end and back-end. Only one template at a time can be the active "default" template for the front-end and similarly for the back-end.

To set a template, select the radio button next to the name of the template you wish to use and then click the "Default" button in the toolbar. The button will look like a star.

Template changes take affect immediately.