ADN:GALLERY

COMMUNITY PHOTOGALLERY
FEATURES CHEAT SHEET

DECEMBER 2012

eXo

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ABOUT

It was to time to think about a new photo gallery feature which allows to the user to illustrate and use images in an animated diaporama.

eXo platform 3.5 give us enough flexibility to extend content types and offer simple ways to create and use content templates. That's why I created the photo gallery template which enables the user to create gallery content, to upload images, to edit the metadata and to display them in an animated format, based on eXo Platform's Document management system.

In this tutorial, I'll illustrate the most important features of this content type and show how to install and then use it under eXo Platform 3.5.

RESOURCES

It is possible to get source code from this location:

https://github.com/eghodbane/adn-gallery

INSTALLATION VIA UI

The easiest way to perform the installation of the gallery is through the User interface, but it's not persistent after dropping the database.

To perform the installation via the user interface, we need to administrate the content via the Content Administration Manager.
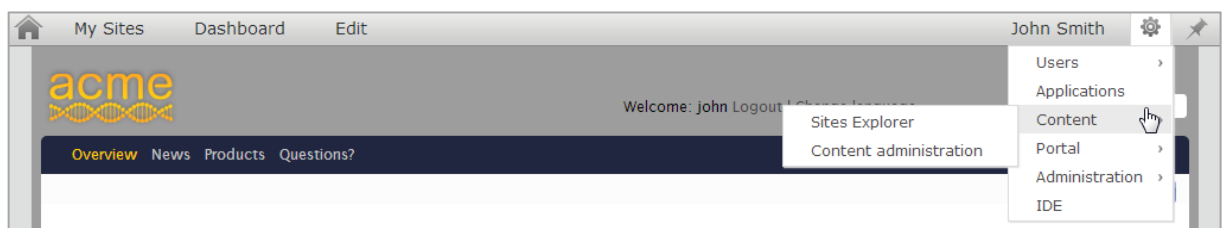

THE NAMESPACE AND NODETYPE CONFIGURATION

We start by the creation of the namespace of our nodetype. Our nodetype name is `gallery` which is related to this new namespace `adn` for `Addon`, so we need to configure the `adn` namespace.

To perform that, we need to create first the name 'adn' by registering it with the URL `"http://www.exoplatform.com/jcr/adn/1.0"` under the Namespace Registry, but I made it easier by preparing the configuration file, which you can found at this location: `https://github.com/eghodbane/adn-gallery/adn-gallery-export.xml`.

You just need to import it into the Namespace Registry.
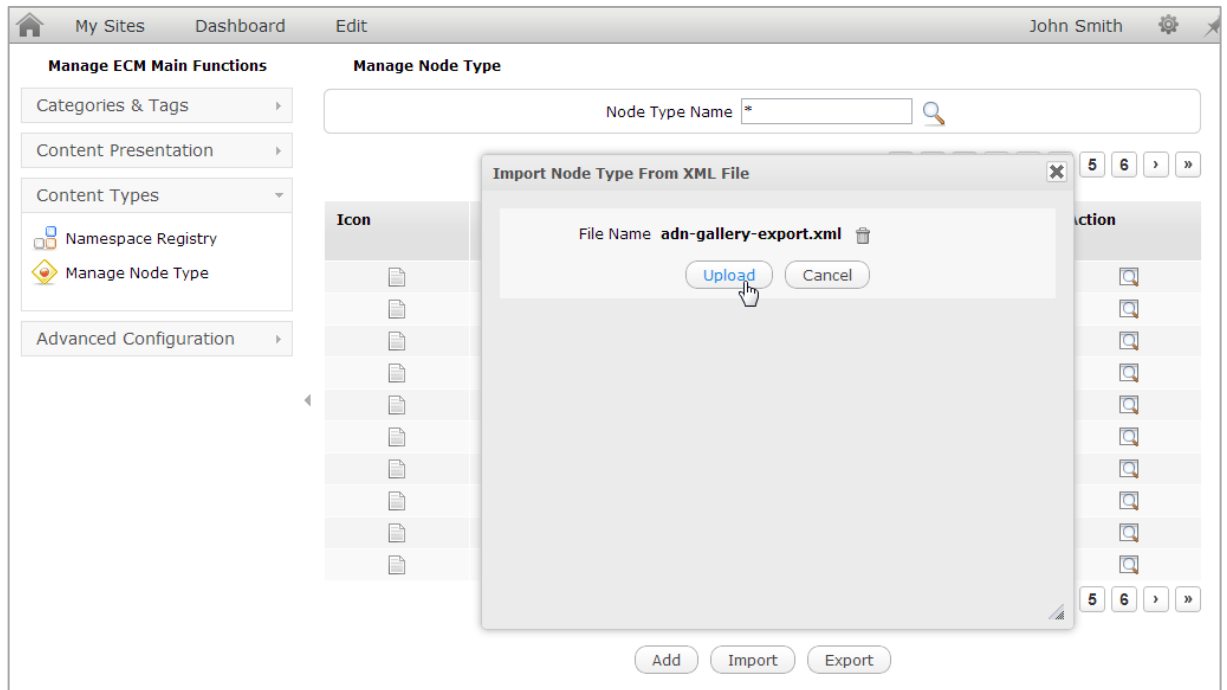
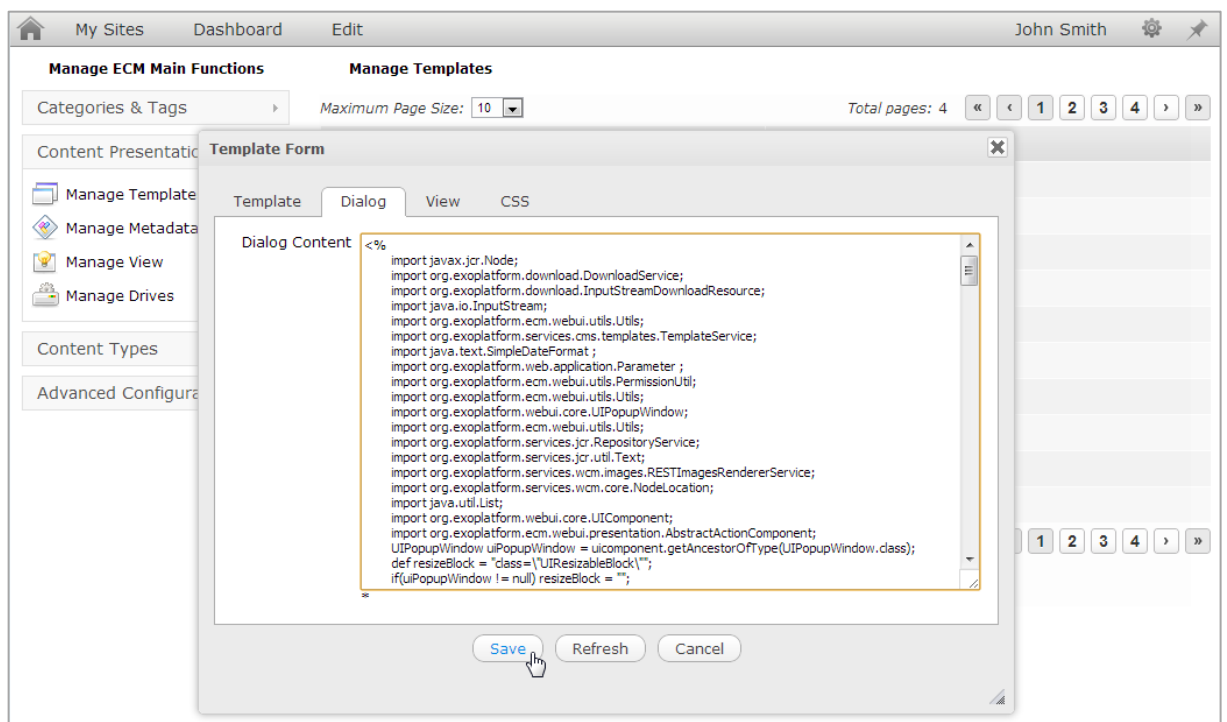

THE DIALOG TEMPLATE CONFIGURATION

Now, we are able to create the related interface, for that we need to create the template for both; the dialog form and the view one.

Go to the `Content Presentation/Manage Templates`, and add a new template as illustrated below.

Choose the related name 'and-gallery', a label and attribute permissions of use.
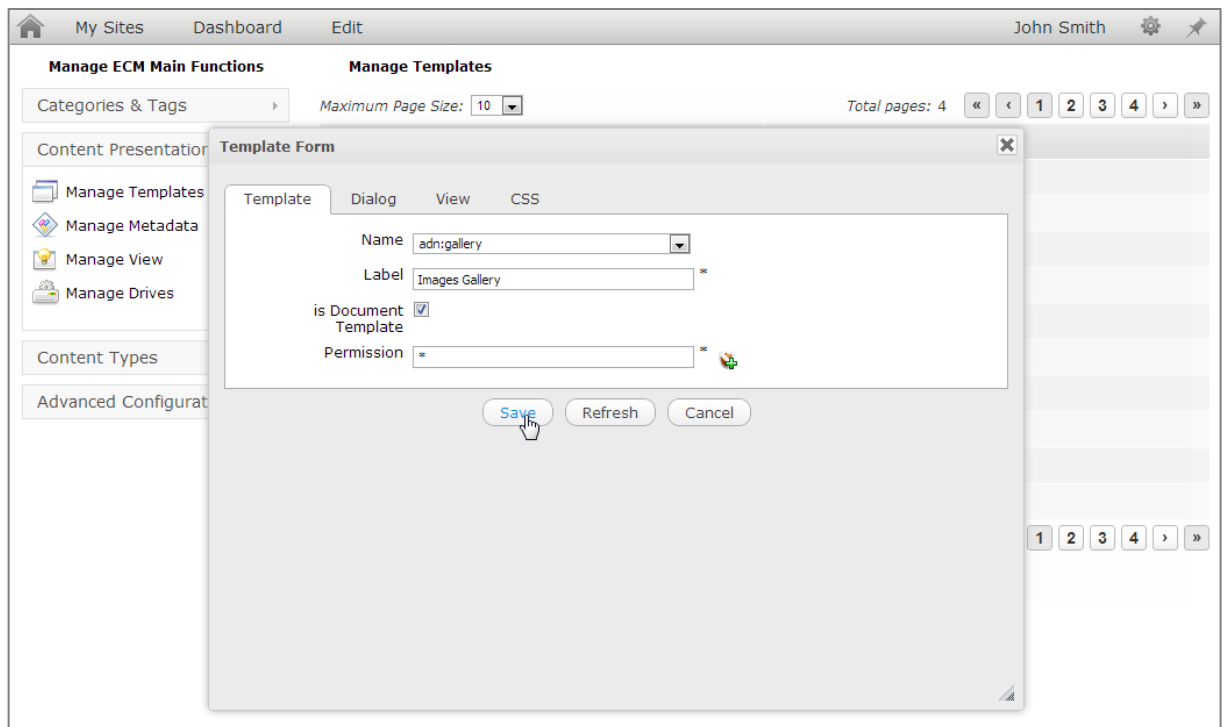
Then we navigate into the dialog tab, there we can edit the template, copy/past the content from this file `https://github.com/eghodbane/adn-gallery/adn-gallery-tmpl-dialog.gtmpl`

THE VIEW TEMPLATE CONFIGURATION

We move to the view template configuration, but before that we need to add some resources related to the JQuery libraries, and thus we will be able to use it in our gallery.
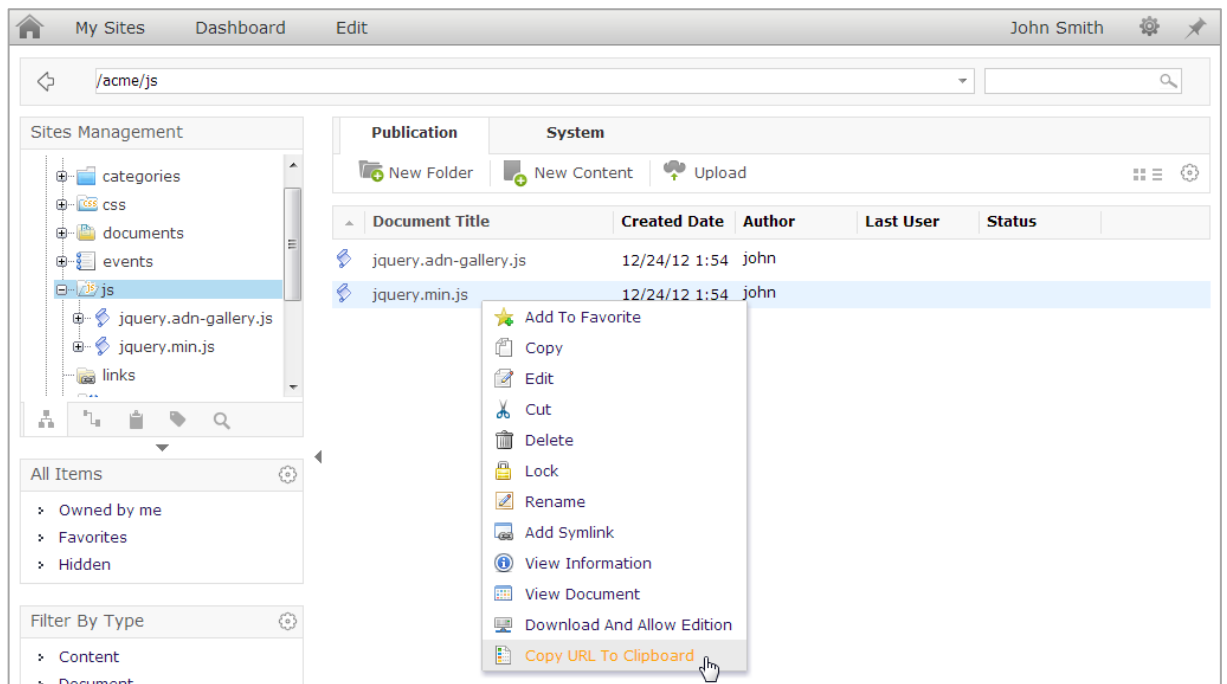
So, navigate to the back-office of the platform using the Site Explorer and upload the JS files into a given location, for our tutorial, we will choose `/acme/js.`

Right click on one file and '`Copy URL to Clipboard`' in order to have to exact location. Now, it's time to have the '`adn-gallery-tmpl-view.gtmpl`' and edit it at the 25th and the 26th lines to change the `src` parameter, as illustrated below:

```
10    import org.exoplatform.services.wcm.images.RESTImagesRendererService;
11    import org.exoplatform.services.wcm.core.NodeLocation;
12    import org.exoplatform.container.PortalContainer;
13
14    UIPopupWindow uiPopupWindow = uicomponent.getAncestorOfType(UIPopupWindow.class);
15    def resizeBlock = "class=\"UIResizableBlock\"";
16    if(uiPopupWindow != null) resizeBlock = "";
17
18    def node = uicomponent.getNode() ;
19    def originalNode = uicomponent.getOriginalNode()
20    SimpleDateFormat dateFormat = new SimpleDateFormat() ;
21    Parameter[] params;
22    RepositoryService rService = uicomponent.getApplicationComponent(RepositoryService.class);
23    String repository = rService.getCurrentRepository().getConfiguration().getName();
24    %>
25    <script type="text/javascript" src="/rest/private/jcr/repository/collaboration/sites
      content/live/acme/js/jquery.min.js"></script>
26    <script type="text/javascript" src="/rest/private/jcr/repository/collaboration/sites
      content/live/acme/js/jquery.adn-gallery.js"></script>
27    <script type="text/javascript">
```

We go back to the Content Administration Manager in order to edit the nodetype, we need to copy/past the content of this file: `https://github.com/eghodbane/adn-gallery/adn-gallery-tmpl-view.gtmpl`.
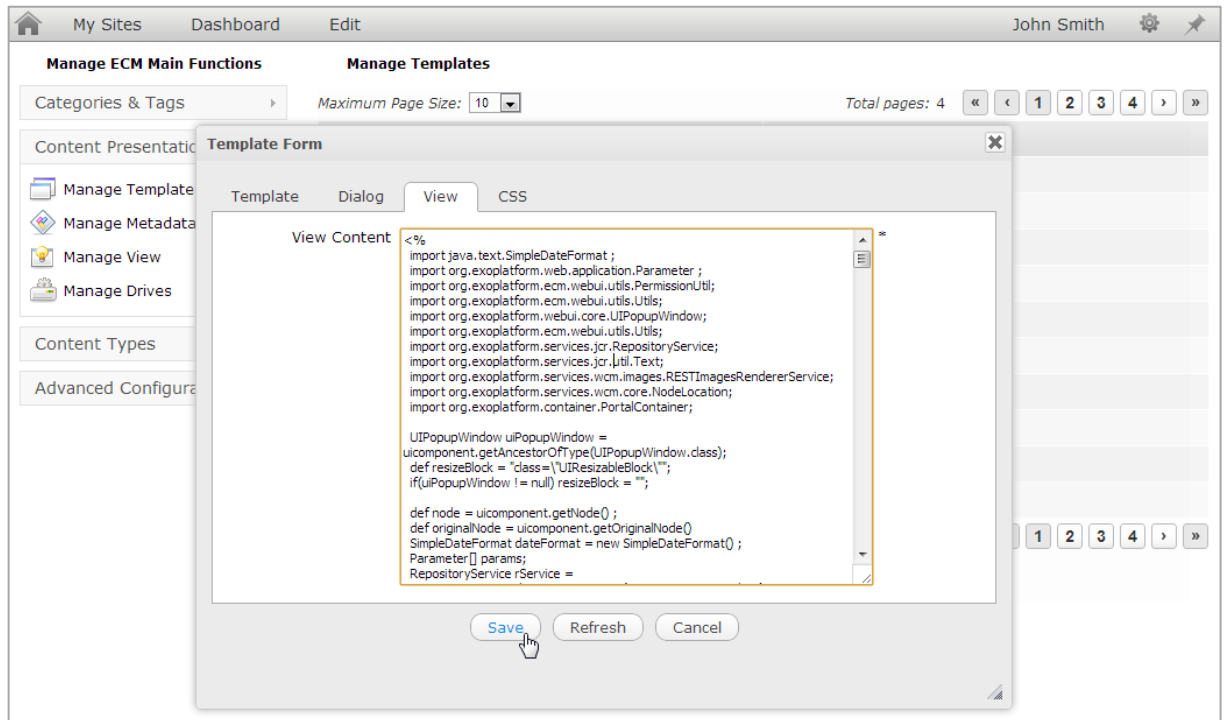
Now, our nodetype is ready and can be used to create a beautiful photos gallery.

INSTALLATION VIA EXTENSION

It's possible also to perform the installation of the gallery feature using the extension mechanism under eXo Platform 3.5 in order to define and to configure our new nodetype.

THE NAMESPACE CONFIGURATION

Our nodetype name is `gallery` which is related to this new namespace `adn` for `Addon`, so we need to configure the `adn` namespace.

To perform that, we need to add to the system configuration file `https://github.com/eghodbane/adn-gallery/Ext/system-configuration.xml` this source code:

```xml
<component-plugin>
    <name>add.namespaces</name>
    <set-method>addPlugin</set-method>
    <type>org.exoplatform.services.jcr.impl.AddNamespacesPlugin</type>
    <init-params>
        <properties-param>
            <name>namespaces</name>
            <property name="adn" value="http://www.exoplatform.com/jcr/adn/1.0"/>
        </properties-param>
    </init-params>
</component-plugin>
```

THE NODETYPE CONFIGURATION

We need also to define our new nodetype 'and:gallery' under the 'https://github.com/eghodbane/adn-gallery/Ext/nodetypes-adn-gallery-configuration.xml' file.

```xml
<nodeType name="adn:gallery" isMixin="false" hasOrderableChildNodes="false" primaryItemName="">
    <supertypes>
        <supertype>nt:unstructured</supertype>
        <supertype>nt:hierarchyNode</supertype>
        <supertype>exo:rss-enable</supertype>
    </supertypes>
    <propertyDefinitions>
        <propertyDefinition
            name="exo:title" requiredType="String" autoCreated="false" mandatory="false"
            onParentVersion="COPY" protected="false" multiple="false">
            <valueConstraints/>
        </propertyDefinition>
        <propertyDefinition
            name="exo:date" requiredType="Date" autoCreated="false" mandatory="false" onParentVersion="COPY"
            protected="false" multiple="false">
            <valueConstraints/>
        </propertyDefinition>
        <propertyDefinition
            name="exo:summary" requiredType="String" autoCreated="false" mandatory="false"
            onParentVersion="COPY" protected="false" multiple="false">
            <valueConstraints/>
        </propertyDefinition>
    </propertyDefinitions>
    <childNodeDefinitions>
        <childNodeDefinition
            name="*" defaultPrimaryType="nt:file" autoCreated="false" mandatory="false"
            onParentVersion="VERSION" protected="false" sameNameSiblings="true">
            <requiredPrimaryTypes><requiredPrimaryType>nt:file</requiredPrimaryType></requiredPrimaryTypes>
        </childNodeDefinition>
        <childNodeDefinition
            name="exo:image" defaultPrimaryType="nt:resource" autoCreated="false" mandatory="false"
            onParentVersion="VERSION" protected="false" sameNameSiblings="true">
            <requiredPrimaryTypes><requiredPrimaryType>nt:resource</requiredPrimaryType></requiredPrimaryTypes>
        </childNodeDefinition>
    </childNodeDefinitions>
</nodeType>
```

THE VIEW AND THE DIALOG TEMPLATE

Once defining the nodetype, we need to define the associated view and dialog templates. You may add them also using the extension mechanism.

Let's assume that you dropped these files into this war `'my-extension.war'` and then we may perform our configuration.

ADD RESOURCES FILES

In order to make an animation, we will add the JQuery library and some Javascript functions, for that we need to add these two files `'jquery.min.js'` & `'jquery.adn-gallery.js'` into our extension already defined.
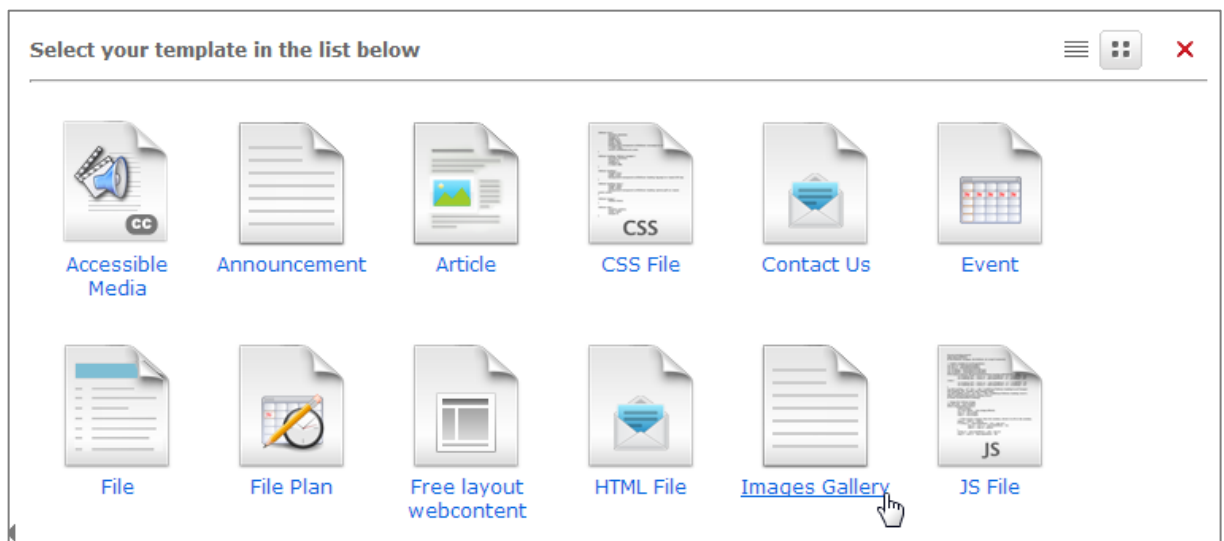
After that we have to update the view template `'adn-gallery-tmpl-view.gtmpl'` in the two first lines in order to define the location of the Javascript files like this:

```
<script type="text/javascript" src="/my-extension/jquery.min.js"></script>
<script type="text/javascript" src="/my-extension/jquery.adn-gallery.js"></script>
```

FEATURES

Now, it's Ok for the configuration phase, we can move to the use of our photo gallery.

- ○ We can navigate to the back office of eXo Platform 3.5 and then create a new content. Choose the template `'gallery'`.

- ○ You confirm the input and save the document.

- You may upload a set of images. You may also delete or update the related metadata of the image directly after uploading.
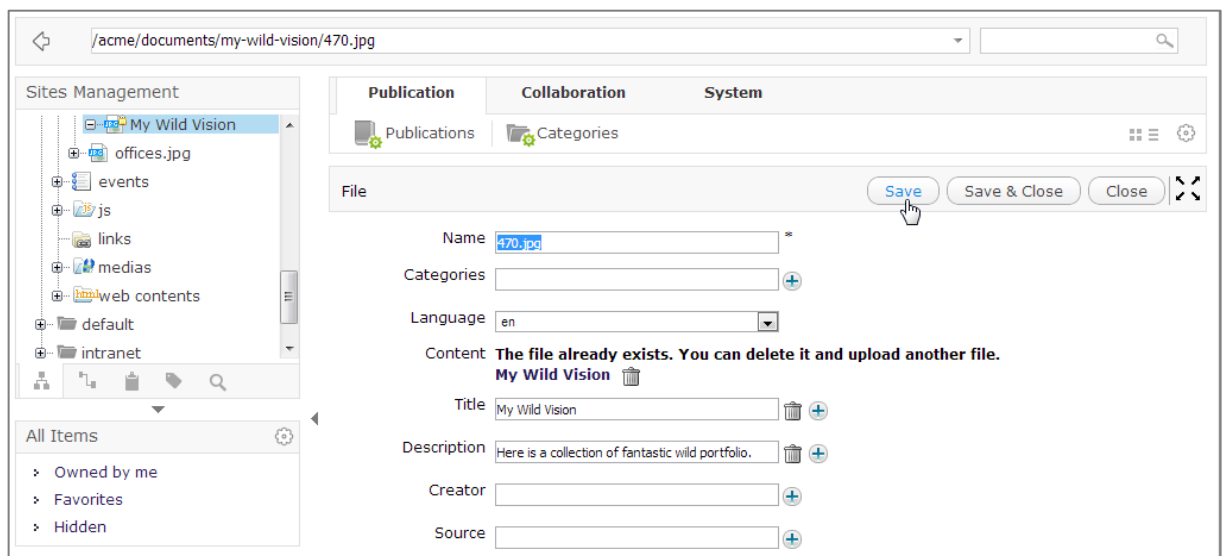

- Or using the explorer side of the document management system.
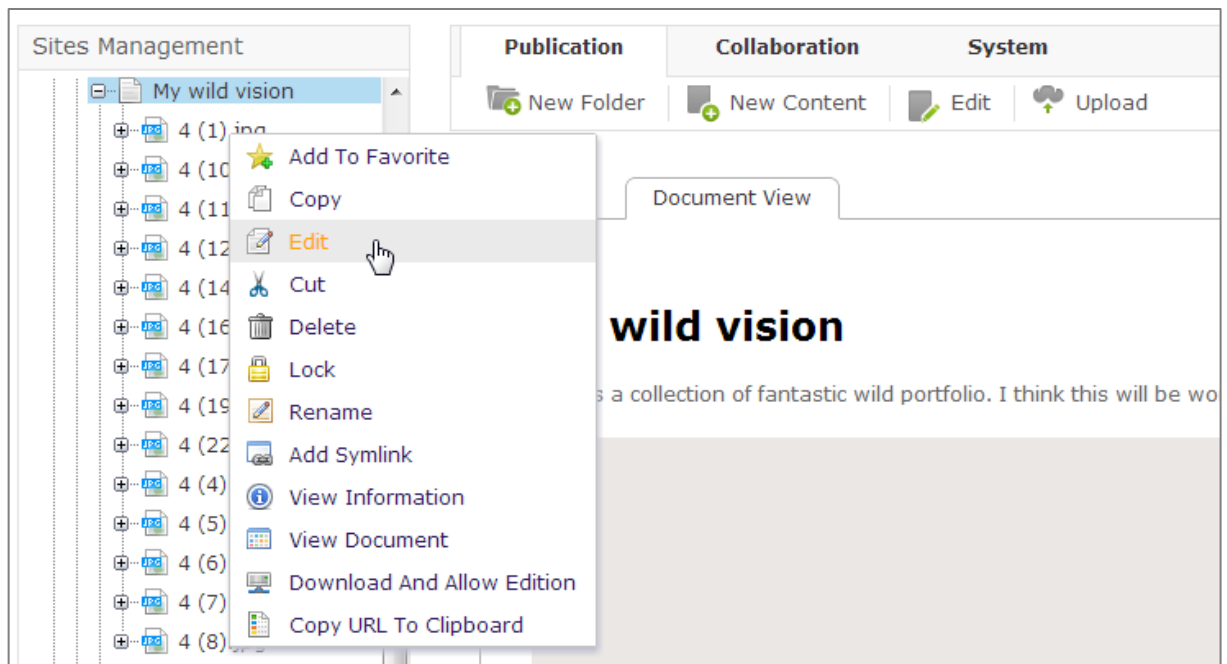
- It's possible to edit the metadata of the image like title and description in order to be displayed in the gallery.

- And finally, you can get your photo gallery based on JQuery library.

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Here is a collection of fantastic wild portfolio. I think this will be worthwhile for anybody who wants to creat

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Here is a collection of fantastic wild portfolio.

13 / 18   Start Stop

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