

jAPS 2.0 - Content Types mini-HOWTO

Do It The jAPS Way

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jAPS 2.0 - Content Types mini-HOWTO

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Abstract

This document shows how to create Content Types for a Portal instantiated from jAPS 2.0.

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Table of Contents

1. Scope of the document	1
Introduction	1
Target audience	1
Prerequisites	1
Resources	1
2. What is and how to create a Content Type	2
What is and how to create a Content Type	2
Content Attributes	3
Attributes Type	3
Properties	3
3. Concrete examples	4
Common Content Types examples	4
Meaningful Content Types	5
Noticeable Content Types	7
A. GNU Free Documentation License	8

List of Examples

2.1. Generic Content	2
2.2. Attribute Name	3
2.3. Attributes Type	3
3.1. Generic Content	4
3.2. News	4
3.3. Event	5
3.4. Image Card	5
3.5. Download Card	6
3.6. Address Book Entry	7

Chapter 1. Scope of the document

Introduction

This document shows how to create Content Types for a portal instantiated from jAPS2.0.

Target audience

This document is for those who are preparing to develop a new portal using jAPS2.0. So the recipients are experts in graphical interfaces for Web and Java developers.

Prerequisites

In order to take the maximum advantage of the present document, it is necessary to have a clearly defined Editorial Plan and knowledge base to use the development environment, as explained in other guides.

Resources

Additional informations may be obtained through the following two mailing-lists:

- <japs-devs@lists.sourceforge.net>, focused on developers
- <japs-users@lists.sourceforge.net>, focused on final users

Chapter 2. What is and how to create a Content Type

What is and how to create a Content Type

A Content Type is a summary of the Attributes useful for a Content.

First we have to decide the structure of the Content Type; this mean establish which are the Attributes that made the Content Type, but remember that for each Content should be consider various view: a full view, a view for search results, a preview, etc.

Example 2.1. Generic Content

```
<contenttype typecode="CNG" typedescr="Generic Content"
  viewpage="contentview" listmodel="11" defaultmodel="1">
  <attributes>
    <attribute name="Title" attributetype="Text"
      indexingtype="text" searcheable="true" required="true" />
    <attribute name="Abstract" attributetype="Longtext"
      indexingtype="text" />
    <attribute name="Body" attributetype="Hypertext"
      indexingtype="text" />
    <attribute name="Image_1" attributetype="Image" />
    <attribute name="Image_2" attributetype="Image" />
    <list name="Links" attributetype="Monolist"
      nestedtype="Link" />
    <list name="Attaches" attributetype="Monolist"
      nestedtype="Attach" />
  </attributes>
</contenttype>
```

In the example we see the Content Type `Generic Content` that is formed by various Attributes, some for view with a Full Model (es. `Body`), some for list view (es. `Abstract`), ecc.

If we assume that we have called our portal `myportal`, we have to insert the Content Types in the Database `myportalPort`, in the table `sysconfig`, in the row `contentTypes`. For each Content Type we define:

<code>typecode</code>	A code that distinguishes the Content Type, must be strictly of 3 alphanumeric characters. In the example <code>CNG</code> .
<code>typedescr</code>	A brief description that will appear during the creation of the Content in the area of Administration. In the example <code>Generic Content</code> .
<code>viewpage</code>	The code of the page for full view (page on which to address in the case of links to content). This is the default page for on-the-fly publishing. In the example <code>contentview</code> .
<code>listmodel</code>	The code of the default Content Model for list viewer. In the example 11. For convention the first number indicates the defaultmodel, which we define shortly, and the second that it is the default list model.
<code>defaultmodel</code>	The Default Content Model. In the example 1.

`Attributes List` The List of Content Attributes wich make that Content Type. In the example Title, Abstract, ecc.

Content Attributes

The Content Attributes (from now and for the rest of the document: Attributes) are the bricks that we use to build contents, because from these we can generate all Content Types desired.

For each Attribute we must specify:

`name`

Example 2.2. Attribute Name

Title, Body, Image, ecc. Remember that they represent the unique code of the Attribute and so they must be self-explanatory and with no spaces or special characters.

`attributetype`

Attributes Type defyned for jAPS 2.0

Example 2.3. Attributes Type

Text, LongText, Image, ecc..

`Properties`

Properties denote several behavioral aspects of the Attributes; you can declare a Attribute mandatory, define its length (min, max or both), make it indexable by the internal search engine and, finally, define those used to filter the contents.

Attributes Type

There are several Attributes Type, for a complete list please see the specific document.

Properties

- `required="true|false"` (default value: false) to make mandatory the compilation of an Attribute in the editing.
- `indexingtype="text|unstored"` (default value: unstored) to index the text using the internal search engine. The value "text" indicates that the information should be indexed. Not all types of Content Attribute can be indexed.
- `searcheable="true|false"` (default value: false) to select, filter and sort the contents. Specifying "true" attribute makes it usable as a filter in a list of the contents of that type.
- `minlength="VALUE"` to set the minimum length of an Attribute.
- `maxlength="VALUE"` to set the maximum length of an Attribute.

Chapter 3. Concrete examples

Common Content Types examples

Example 3.1. Generic Content

```
<contenttype typecode="CNG" typedescr="Generic Content"
  viewpage="contentview" listmodel="11" defaultmodel="1">
  <attributes>
    <attribute name="Title" attributetype="Text"
      indexingtype="text" searcheable="true"
      required="true" />
    <attribute name="Abstract" attributetype="Longtext"
      indexingtype="text" />
    <attribute name="Body" attributetype="Hypertext"
      indexingtype="text" />
    <attribute name="Image_1" attributetype="Image" />
    <attribute name="Image_2" attributetype="Image" />
    <list name="Links" attributetype="Monolist"
      nestedtype="Link" />
    <list name="Attaches" attributetype="Monolist"
      nestedtype="Attach" />
  </attributes>
</contenttype>
```

In the example a Content Type Generic with Title, Abstract, Body, two Image, a list of Link and a list of Attaches. This can be used for generic content so do not need a date or other special attributes.

Example 3.2. News

```
<contenttype typecode="NEW" typedescr="New"
  viewpage="newsview" listmodel="21" defaultmodel="2">
  <attributes>
    <attribute name="Data" attributetype="Date"
      searcheable="true" required="true" />
    <attribute name="Title" attributetype="Text"
      indexingtype="text" searcheable="true"
      required="true" />
    <attribute name="Abstract" attributetype="Longtext"
      indexingtype="text" />
    <attribute name="Body" attributetype="Hypertext"
      indexingtype="text" />
    <attribute name="Image" attributetype="Image" />
    <list name="Links" attributetype="Monolist"
      nestedtype="Link" />
    <list name="Attaches" attributetype="Monolist"
      nestedtype="Attach" />
  </attributes>
</contenttype>
```

In the example a Content Type News with con Data, Title, Abstract, Body, an Image, a list of Link and a list of Attaches. It can be used to publish news that a key attribute is the date of publication.

Example 3.3. Event

```
<contenttype typecode="EVN" typedescr="Event"
  viewpage="eventview" listmodel="31"
  defaultmodel="3">
  <attributes>
    <attribute name="StartDate" attributetype="Date"
      searcheable="true" required="true" />
    <attribute name="EndDate" attributetype="Date"
      searcheable="true" required="true" />
    <attribute name="Subject" attributetype="Text"
      indexingtype="text" searcheable="true"
      required="true" />
    <attribute name="BriefDescription" attributetype="Longtext"
      indexingtype="text" />
    <attribute name="Description" attributetype="Hypertext"
      indexingtype="text" />
    <attribute name="Image" attributetype="Image" />
    <list name="Links" attributetype="Monolist"
      nestedtype="Link" />
    <list name="Attaches" attributetype="Monolist"
      nestedtype="Attach" />
  </attributes>
</contenttype>
```

In the example a Content Type Event with a Start Date, an End Date, Subject, BriefDescription, Description, an Image, a list of Link and a list of Attaches. You can use to post events that are fundamental attributes dates end event.

Meaningful Content Types

Example 3.4. Image Card

```
<contenttype typecode="SIM" typedescr="Image Card"
  viewpage="photogalleryview" listmodel="41"
  defaultmodel="4">
  <attributes>
    <attribute name="Image" attributetype="Image"
      required="true" />
    <attribute name="Caption" attributetype="Text"
      searcheable="true" required="true" />
    <attribute name="DepthDescription"
      attributetype="Hypertext" searcheable="true" />
  </attributes>
</contenttype>
```

In the example a Content Type Image Card with an Image, Caption and a Depth Description. This can be used for a fotogallery.

Example 3.5. Download Card

```
<contenttype typecode="SDL" typedescr="Download Card"
  viewpage="dlview" listmodel="51" defaultmodel="5">
  <attributes>
    <attribute name="Subject" attributetype="Text"
      indexingtype="text" searcheable="true"
      required="true" />
    <attribute name="StartDate" attributetype="Date"
      searcheable="true" required="true" />
    <attribute name="BriefDescription"
      attributetype="Hypertext" indexingtype="text"
      required="true" />
    <attribute name="Description" attributetype="Hypertext"
      indexingtype="text" />
    <attribute name="Image" attributetype="Image" />
    <attribute name="File" attributetype="Attach"
      required="true" />
    <list name="Links" attributetype="Monolist"
      nestedtype="Link" />
  </attributes>
</contenttype>
```

In the example un Content Type Download Card con Subject, StartDate, Brief Description, Description, an Image, a File and a list of Link. This can be used for files to download.

Noticeable Content Types

Example 3.6. Address Book Entry

```
<contenttype typecode="VEL" typedescr="Address Book Entry"
  viewpage="contactview" listmodel="61" defaultmodel="6">
  <attributes>
    <attribute name="Role" attributetype="Text" indexingtype="text"
      searchable="true" />
    <attribute name="LastName" attributetype="Text" indexingtype="text"
      searchable="true" />
    <attribute name="Name" attributetype="Text"
      indexingtype="text" />
    <attribute name="Image" attributetype="Image" />
    <attribute name="eMail" attributetype="Text"
      indexingtype="text" />
    <attribute name="WorkPhone" attributetype="Text"
      indexingtype="text" />
    <attribute name="WorkCell" attributetype="Text"
      indexingtype="text" />
    <attribute name="PersonalCell" attributetype="Text"
      indexingtype="text" />
    <attribute name="WorkFax" attributetype="Text"
      indexingtype="text" />
    <attribute name="PersonalFax" attributetype="Text"
      indexingtype="text" />
  </attributes>
</contenttype>
```

In the example a Content Type Address Book Entry with Role, LastName, Name, Image, eMail, Work Phone, Work Cell, Personal Cell, Work Fax, Personal Fax. This can be used for an Address Book of Employees.

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