

jAPS 2.0 - Page Models

Do It The jAPS Way

Daniela Nieddu, AgileTec s.r.l. <d.nieddu@agiletec.it>

jAPS 2.0 - Page Models

by Daniela Nieddu

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Abstract

This document shows how to create Page Models for a Portal instantiated from jAPS 2.0.

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Chapter 1. Scope of the document

Introduction

This document shows how to create Page Models 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 maximum advantage from the present document, it is necessary to have basic knowledge about: (X)HTML, CSS, and XML, as well as 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 Page Model

What is and how to create a Page Model

A Page Model is a summary of the characteristics of a Page.

When you create a page is associated to a model, then customize the properties and you configure the specific Showlets for the page.

The two souls of a Page Model are the XML and the Markup. The configuration of the XML defines the positions of Showlets that from now on call `Frames`, the Markup in the jsp defines the graphical aspect.

You can create different Page Models, for example one for the Homepage e one for the Internal Page of the Portal.

The two souls of a Page Model - part I: XML

First we have to decide the structure of our site, this means to determine the positions of the default Showlets and to provide empty spaces for other Showlets.

If we assume that they have called our portal `myportal`, we have the Database `myportalPort`. We need to configure the Page Models in the table `pagemodels` inserting:

Code, column <code>code</code>	must have the same name that you give to the corresponding jsp.
--------------------------------	---

Example 2.1. Meaningful names to Codes.

`home, internal_2columns.`

Description, column <code>descr</code>	Must be meaningful to make immediate understanding when creating the page.
--	--

Example 2.2. Meaningful names to Descriptions.

`Homepage, Internal 2 Columns.`

Configuration, column <code>frames</code>	XML with a list of numbered Frames. The numbering of the positions should start from 0 and follow orderly.
---	--

Remember to set `main="true"`

Important in the Page Models different from the Homepage, remember to set one of the Frames with `main="true"`. This allows you to locate the *favorite* position in the page where you publish a content.

Example 2.3. XML configuration.

```
<frames>
  <frame pos="0">
    <descr>Lang</descr>
    <defaultShowlet code="lang"/>
  </frame>
  <frame pos="1">
    <descr>Search Form</descr>
    <defaultShowlet code="search_form"/>
  </frame>
  <frame pos="2">
    <descr>Breadcrumbs</descr>
    <defaultShowlet code="breadcrumbs"/>
  </frame>
  <frame pos="3">
    <descr>Left Box 1</descr>
  </frame>
  <frame pos="4" main="true">
    <descr>Central Box 1</descr>
  </frame>

  .....

  <frame pos="11">
    <descr>Footer</descr>
  </frame>
</frames>
```

As we see in the example, for each Frame can configure:

- Position: starting from zero.
- Description: good rule assign significant names which will make easier the configuration of the Pages in the administration area.
- Default Showlets: where there are repeated Showlets in the same position in all pages whit this model. For some Showlets may be a configuration, it is necessary to list of property.

Example 2.4. Default Showlets Configuration.

to create a menu with all daughters of the Homepage, sets the navSpec in this way:

```
<properties>
  <property key="navSpec">code(homepage).children</property>
</properties>
```

The two souls of a Page Model - part II: Markup

Once we have established what we want to see in the page and in what order, we must decide how to make it in the markup preferred language.

In the folder `WEB-INF/aps/jsp/models` we create with the name of the jsp code given in XML,

Example 2.5. Meaningful names to the JSP.

`home.jsp`, `internal_2columns.jsp`.

To define the inclusion of a Showlet in jsp we use the tag: `<wp:show frame="0">`

For the graphical aspect we need to create `.css` files in the folder `resources/static/css`. Is usually to create two Style Sheets, one for Layout definitions, called `general.css` and placed inside a `pagemodels` folder, and one for a style that generally called `mioportale.css`.

Chapter 3. Two concrete examples

We see a complete example of a Homepage and one of a Internal page

```
<frames>
```

Example 3.1 XML: Example of Home Page with three columns.

Homepage

```
<descr>Search</descr>
<defaultShowlet code="search_form" />
</frames>
<frame pos="1">
  <descr>Breadcrumbs</descr>
  <defaultShowlet code="navigation_breadcrumbs" />
</frame>
<frame pos="2">
  <descr>Column 1, Box 1</descr>
  <defaultShowlet code="navigation_menu">
    <properties>
      <property key="navSpec">code(homepage).children</property>
    </properties>
  </defaultShowlet>
</frame>
<frame pos="3">
  <descr>Column 1, Box 2</descr>
</frame>
<frame pos="4">
  <descr>Column 1, Box 3</descr>
</frame>
<frame pos="5">
  <descr>Column 1, Box 4</descr>
</frame>
<frame pos="6">
  <descr>Central, Box 1</descr>
  <defaultShowlet code="news_latest" />
</frame>
<frame pos="7">
  <descr>Central, Box 2</descr>
  <defaultShowlet code="events_latest" />
</frame>
<frame pos="8">
  <descr>Central, Box 3</descr>
</frame>
<frame pos="9">
  <descr>Central, Box 4</descr>
</frame>
<frame pos="10">
  <descr>Central, Box 5</descr>
</frame>
<frame pos="11">
  <descr>Column 3, Box 1</descr>
</frame>
<frame pos="12">
  <descr>Column 3, Box 2</descr>
</frame>
<frame pos="13">
  <descr>Column 3, Box 3</descr>
</frame>
<frame pos="14">
  <descr>Footer</descr>
  <defaultShowlet code="navigation_menu">
    <properties>
      <property key="navSpec">code(site_map)+code(contacts)</property>
    </properties>
  </defaultShowlet>
</frame>
</frames>
```

In this example we see a Homepage made up 15 Frames numbered by 0 to 14. We have some default Showlets: the Search Form, the Breadcrumbs, two menu, the Last News and the Last Events while all the other positions are free. In particular we see that the menu located in the first box of the first column was configured to display all the children of the Homepage, the menu located in the Footer was configured to display the page with the Site Map and the Contacts page.

Example 3.2. Markup: Example of Homepage with three columns.

```
<%@ taglib prefix="wp" uri="aps-core.tld"%>
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
  "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="it">
<head>
<title>myportal| <wp:currentPage param="title" /></title>
<link rel="stylesheet" type="text/css" href="<wp:cssURL />myportal.css" />
<link rel="stylesheet" type="text/css" href="<wp:cssURL />pagemodels/general.cs
<wp:outputHeadInfo type="CSS">
  <link rel="stylesheet" type="text/css" href="<wp:cssURL /><wp:printHeadInfo />
</wp:outputHeadInfo>
</head>
<body>

<div id="header-up">
  <wp:show frame="0" />
</div>
<div id="header-down">
  <wp:show frame="1" />
</div>
<div id="column1">
  <wp:show frame="2" />
  <wp:show frame="3" />
  <wp:show frame="4" />
  <wp:show frame="5" />
</div>
<div id="column2">
  <wp:show frame="6" />
  <wp:show frame="7" />
  <wp:show frame="8" />
  <wp:show frame="9" />
  <wp:show frame="10" />
</div>
<div id="column3">
  <wp:show frame="11" />
  <wp:show frame="12" />
  <wp:show frame="13" />
</div>
<div id="footer">
  <wp:show frame="14" />
</div>

</body>
</html>
```

In this example we see how to include the Showlets in the Markup. In order: the Search Form and the Breadcrumbs which have been included inside the div, respecting the position given in the XML, in the 0 and 1 Frames. After three div to identify three columns, in which it was decided to include four positions in the first column, five in the second and three in the third. Finally, a div for the Footer that contains the last Frame number 14.

Internal Page

Example 3.3. XML: Example of Internal Page with two columns.

```
<frames>
  <frame pos="0">
    <descr>Search Form</descr>
    <defaultShowlet code="search_form" />
  </frame>
  <frame pos="1">
    <descr>Breadcrumbs</descr>
    <defaultShowlet code="navigation_breadcrumbs" />
  </frame>
  <frame pos="2">
    <descr>Column 1, Box 1</descr>
    <defaultShowlet code="navigation_menu">
      <properties>
        <property key="navSpec">code(homepage).children</property>
      </properties>
    </defaultShowlet>
  </frame>
  <frame pos="3">
    <descr>Column 1, Box 2</descr>
  </frame>
  <frame pos="4">
    <descr>Column 1, Box 3</descr>
  </frame>
  <frame pos="5">
    <descr>Column 1, Box 4</descr>
  </frame>
  <frame pos="6" main="true">
    <descr>Central, Box 1</descr>
  </frame>
  <frame pos="7">
    <descr>Central, Box 2</descr>
  </frame>
  <frame pos="8">
    <descr>Central, Box 3</descr>
  </frame>
  <frame pos="9">
    <descr>Central, Box 4</descr>
  </frame>
  <frame pos="10">
    <descr>Central, Box 5</descr>
  </frame>
  <frame pos="11">
    <descr>Footer</descr>
    <defaultShowlet code="navigation_menu">
      <properties>
        <property key="navSpec">code(site_map)+code(contacts)</property>
      </properties>
    </defaultShowlet>
  </frame>
</frames>
```

In this example we see a page made up of 12 positions, numbered from 0 to 11. We have some default Showlets: the Search Form, the Breadcrumbs and two menu, while all other positions are free. In particular we see that the menu positioned in the first box of the first column, was configured to display all the children page of the Homepage, the menu positioned in the Footer was configured to display the Site Map and the Contacts pages.

Example 3.4. Markup: Example of Internal Page with two columns

```
<%@ taglib prefix="wp" uri="aps-core.tld"%>
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
  "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="it">
<head>
<title>myportal| <wp:currentPage param="title" /></title>
<link rel="stylesheet" type="text/css" href="<wp:cssURL />myportal.css" />
<link rel="stylesheet" type="text/css" href="<wp:cssURL />pagemodels/general.cs
<wp:outputHeadInfo type="CSS">
  <link rel="stylesheet" type="text/css" href="<wp:cssURL /><wp:printHeadInfo />
</wp:outputHeadInfo>
</head>
<body>
<div id="header-up">
  <wp:show frame="0" />
</div>
<div id="header-down">
  <wp:show frame="1" />
</div>
<div id="column1">
  <wp:show frame="2" />
  <wp:show frame="3" />
  <wp:show frame="4" />
  <wp:show frame="5" />
</div>
<div id="column2">
  <wp:show frame="6" />
  <wp:show frame="7" />
  <wp:show frame="8" />
  <wp:show frame="9" />
  <wp:show frame="10" />
</div>
<div id="footer">
  <wp:show frame="11" />
</div>

</body>
</html>
```

In this example we see how to include the Showlets in the markup. In order: the Search Form and the Breadcrumbs which have been included inside the div, respecting the position given in the XML, in the 0 e 1 Frames. After two div to identify two columns, in which it was decided to include four positions in the first and five in the second. Finally, a div for the Footer that contains the last frame, number 11.

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