# **The Navigation Framework**

# **Table of contents**

1 Introduction	2
2 Architecture	2
3 Using the Navigation Framework	
3.1 Loading a Navigation Component	
3.2 Aggregating the Navigation Components	
4 Developing Navigation Components	
4 Developing Ivavigation Components	J

#### 1. Introduction

To goal of the navigation framework is to

• simplify and standardize the generation of navigation widgets like menubars, tabs, breadcrumb paths.

With the approach that is presented here it shall be possible to

- use pre-defined XHTML navigation components and present them with a custom CSS,
- override these components in a publication whereby the logic can be reused, and
- create and integrate new publication-specific navigation components using the same scheme.

#### 2. Architecture

The navigation framework consists of the following components:

```
/lenya/navigation.xmap
The sitemap where the navigation components are loaded.
/lenya/xslt/navigation/*.xsl
The default navigation components that are shipped with Lenya.
/lenya/pubs/lenya/xslt/navigation/*.xsl
Custom navigation components of the publication.
```

# 3. Using the Navigation Framework

## 3.1. Loading a Navigation Component

You can load a navigation component from the following URI:

```
cocoon://navigation/<pub-id>/<component>/<path>.xml
```

The URI steps are:

```
<pub-id>
The publication ID.
<component>
The navigation component to load (tabs, menu, etc.).
<path>
```

The navigation path. It is a concatenation of the href attributes of the sitetree nodes that lead to the current node, e.g. demo/oscom.html for the sitetree fragment

### 3.2. Aggregating the Navigation Components

The basic principle is shown in the following figure:

In the publication sitemap (lenya/pubs/<pub-id>/sitemap.xmap) the navigation components are aggregated. Here you decide which components you want to use:

```
<map:pipeline>
      <map:match pattern="navigation/**.html">
(1)
         <map:aggregate element="page" prefix="page"</pre>
               ns="http://apache.org/cocoon/lenya/cms-page/1.0">
(2)
            <map:part src="cocoon://navigation/</pre>
                 {publication-id}/breadcrumb/{../1}.html.xml"/>
(3)
            <map:part src="cocoon://navigation/</pre>
                 {publication-id}/tabs/{../1}.html.xml"/>
(4)
             <map:part src="cocoon://navigation/</pre>
                {publication-id}/menu/{../1}.html.xml"/>
          </map:aggregate>
          <map:transform src="xslt/page2xhtml.xsl">
              <map:parameter name="root"
  value="{context}/{publication-id}/"/>
          </map:transform>
(7)
        <map:serialize type="xhtml"/>
      </map:match>
    </map:pipeline>
```

- 1. The navigation elements are aggregated together with other document parts.
- 2. Load the breadcrumb XHTML fragment.
- 3. Load the tabs XHTML fragment.
- 4. Load the menu XHTML fragment.
- 5. Create the XHTML page.
- 6. The stylesheet can use this parameter to generate absolute URLs.
- 7. Finally, serialize the page as XHTML.

## 4. Developing Navigation Components

The following contracts define the development of navigation components:

• A navigation component is an XSLT stylesheet that is located at

```
lenya/xslt/navigation/<component>.xsl
for default components and
lenya/pubs/<publication-id>/lenya/xslt/<component>.xsl
for default components.
```

• The default components produce an XHTML fragment with the top level element <div class="<component>"/>.