The Navigation Framework

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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">
```

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```
(1)
          <map:aggregate element="page" prefix="page"</pre>
               ns="http://apache.org/cocoon/lenya/cms-page/1.0">
             <map:part src="cocoon://navigation/</pre>
(2)
                 {publication-id}/breadcrumb/{../1}.html.xml"/>
             <map:part src="cocoon://navigation/</pre>
(3)
                 {publication-id}/tabs/{../1}.html.xml"/>
             <map:part src="cocoon://navigation/</pre>
(4)
                {publication-id}/menu/{../1}.html.xml"/>
          </map:aggregate>
(5)
          <map:transform src="xslt/page2xhtml.xsl">
(6)
              <map:parameter name="root"</pre>
                  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>"/>.