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>

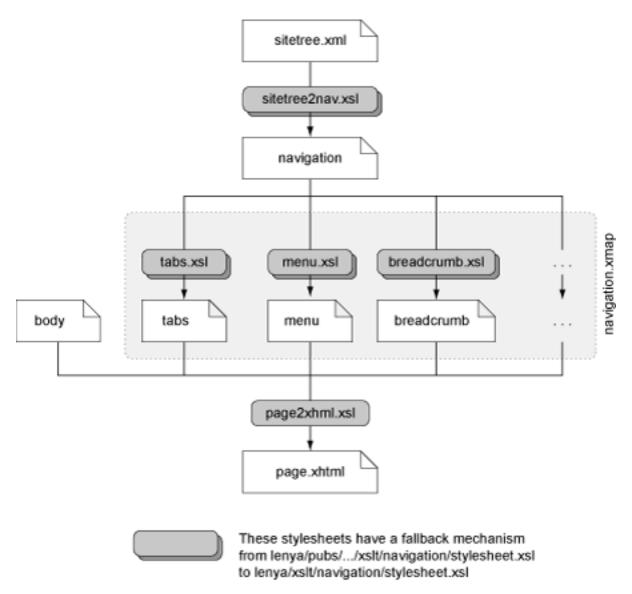
The navigation component to load (tabs, menu, etc.).

<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:

- 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>"/>.