

Introduction

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This projects aims to use XML technologies in combination with a modern build system to build a blogging framework. Blog posts are xml files, stored inside the `posts` folder, and having names of the form `post_XX.xml`, where `XX` represents a double-digit number. Each blog post that the user desires to appear in the built website must be included in the `posts.xml` file, as a `post` element of the `posts` root, as such:

```
<post filename="posts/post_38.xml" title="Introduction"/>
```

After the post was added to the `posts.xml` file, the build system (waf: <http://code.google.com/p/waf/>) should be run:

```
python waf
```

For each blog post, waf will generate the pdf version, and a small xml file named `post_XX_meta.xml`, which contains meta-information about the post - such as the author, and the date when it was published. These meta files are dynamically fetched, using Ajax, when the user hovers the mouse over the title of a blog post, for generating a tooltip with this information.

When the user clicks the title of a blog post, the corresponding `post_XX.xml` file will be fetched (also using Ajax), transformed using `transform.xsl` into xhtml, and the resulting xhtml will be set as the inner html for the element with an id of `content`. A link to the pdf version of the article is automatically added to the footer of the article.

The build system will automatically detect when any of the blog posts in the `posts` folder is changed, and will re-generate the corresponding meta and pdf files.