Report

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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 regenerate the corresponding meta and pdf files.

At the moment, the blog does not work in Internet Explorer, but was tested in Firefox 11 and Chrome 18.



Introduction

What is XML well-formedness and how What is XML validation and what is the What is the importance of the first line of What are the differences between elements

Namespaces in XML

XML Entities

Is the semantic web a failure?

The W3C XML Schema

What are the implications of the concept of

What is the DOM?

Evaluating SAX

What is AJAX and what are its purposes? Is AJAX both a success and a failure?

What is XPath?

XIML

What is XLink?

XUL

What is the current status of CSS?

What is the current status of XSL?

What are the relative merits of CSS and

Using XSL to generate HTML

How can an XML document be best

Styling XML with CSS

Styling XML with XSL

Namespaces in XML

Namespaces, a familiar concept to C++ and Java progra problem of name clashes has the potential to be more wider and more difficult to anticipate application doma ensure a way of mitigating potential name conflicts.

For example, a file containing information about a mod

```
1 <?xml version="1.0"?>
2 <module>
3 <ID>CMT3315</ID>
4 <tutor>Ray Adams</tutor>
5 </module>
```

And another file could contain information about a mo

```
1 <?xml version="1.0"?>
2 <module>
3 <name>Graphical User Interface</na
4 <pri>ority>high</priority>
```

A screenshot of the blog, which is about XML, with the post about namespaces loaded.

The blog can be seen "live" at: http://mihai-rotaru.github.com/XML-Blog