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Editing HTML with the Kupu Editor on the Web2Survey Zope Server

By Dr Rich Herrington, ACS Research and Statistical Support Services Consultant

Previously in the RSS column (April 2006) we have discussed using the open-source HTML WYSIWYG editor Nvu to edit HTML pages on the Web2Survey Zope server. The following RSS installment discussed <u>content management systems</u> (CMS), specifically Zope/Plone (May 2006). In the May 2006 RSS installment, the web development technique Ajax was briefly referred to (e.g. XMLHttpRequest). Ajax refers to programming practices that use asynchronous JavaScript. Ajax web development techniques are used my many websites (e.g. Google; Yahoo) to implement responsive and dynamic websites. Effectively, Ajax applications partly duplicate the functionality of Java applets: lightweight miniapplications that are processed inside the client's browser; however, the Ajax platform is more restricted. The practical upshot of this is that a client's session has greater interactivity, speed, and usability. Ajax uses the XMLHttpRequest <u>API</u> to exchange data asynchronously with the web server. Although the XML format is routinely used to exchange data between the server and the client, other formats work as well (e.g. HTML, plain text, etc.). Several web-based <u>HTML editors</u> (see list of editors) utilize JavaScript and the Ajax platform to implement "in-place" editing of HTML documents.

Kupu: A Web Based Editor That Uses Asynchronous Javascript

Kupu is a "document-centric" open source <u>client-side</u> editor for <u>Mozilla</u> (e.g. <u>Firefox</u>), <u>Netscape</u> and <u>Internet Explorer</u>. Kupu was primarily written by (among others) Paul Everitt, Guido Wesdorp and Philipp von Weitershausen. Kupu was inspired by Maik Jablonski's Epoz editor. Kupu has been integrated into a variety of CMS including: <u>Zope</u>, <u>Silva</u>, <u>Plone</u> and <u>Apache Lenya</u>. Kupu uses <u>CSS</u> rather than HTML for layout and presentation and also supports asynchronous saving to the web server.

Setting up the Kupu Editor on Zope

I will start out with a new Zope account and proceed through the steps necessary to edit HTML documents with the Kupu editor. After logging into your Zope account, you should see something like the following (this is a newly created Zope account - for instructions on logging in see June 2005, tutorial 1):

OPE						Log	iged in a:	s richh	err2
H use		Contents		View	Propertie	25	Security	Ť	Undo
∍Cα h	🗎 Folder at	/users/	RichH						
							A	ccelerat	ted HT
	Type Name						Size		La
	🔲 法 acl_use	ers (User	Folder)						20
	🗆 🗇 index_h	ntml 🍃					1 Kb		20
	Rename	Cut	Сору	Paste	Delete	Import/	Export	Selec	t All
\triangleright									

Notice that Zope uses index_html as the default HTML index page rather than index.html or index.htm. Delete your original **index_html** page and add a new <u>DTML method</u> document from the drop down menu (Make sure you use **Method** and NOT Document!!):

Accelerated HTTP Cache Manager 🔽	
Controller Validator 🔺	
Cookie Crumbler	
Cookie Crumbler (Standalone)	
DTML Document	
DTML Method 🗧	
Docma Service 🔟	
External Method	
File	
Filesystem Directory View	
Filesystem Directory View	
Folder	
Folder (Ordered)	
Form Controller Tool	
Formulator Form	
Group User Folder	
Groups Mapping	
Groups Service	
Honeyd Control Center	
Image	
I DADI IsarFoldar	

and name it **index_html**. You should see the following:



Next, add a Filesystem Directory View object (choose the second entry):

Filesystem Directory View	-1
External Method	
File	
Filesystem Directory View	
Filesystem Directory View	
Folder	
Folder (Ordered)	
Form Controller Tool	-
Formulator Form	
Group User Folder	
Groups Mapping	
Groups Service	
Honeyd Control Center	
Image	
LDAPUserFolder	
LDAPUserSatellite	
LTAssignmentBox Content	
LTOnlineTest Content	
Local File System	
LocalContent	
LocalFolder	∇

After the display of the browser window that has the entry fields for the **Filesystem Directory View**, scroll down and select **kupu/common**. Name the object **kupu**, for example:

kupu/common/kupudrawers kupu/common/kupudrawers/logos kupu/common/kupuimages kupu/common/kupupopups	
kupu/common/kupuimages	
kupu	
(Leave blank to use the default.)	

Next, we need to create a <u>Zope Page Template (ZPT)</u> named **kupu_edit** that makes the JavaScript libraries available to an editing session. Create a ZPT from the object drop-down menu and name it **kupu_edit**, for example:

	Accelerated HTTP Cache Manager	Ŧ
	LTOnlineTest Content	Δ
	Local File System	
	LocalContent	
	LocalFolder	
	Localizer	
Import	Mail Host	
mpon	MessageCatalog	-3
	MultipleChoiceQuestion	
	PHPGateway	
	PHParser	
	Page Template	
	Parsed XML	
	Plone Content	
	Plone Site	
	Plone Tool	
	PortalTransforms Tool	
	QPage	
	QSurvey	
	D Mathad	

After the changes have been committed, you should see:

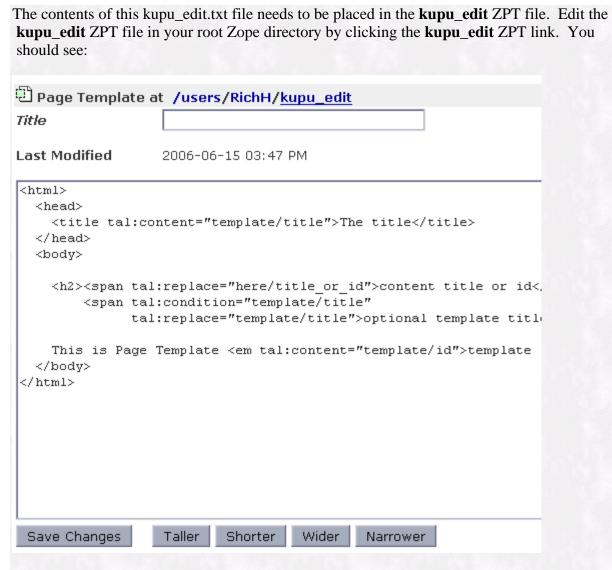


Next, we need to change the default HTML content for the **kupu_edit** page template. At the <u>URL</u>:

https://web2survey.unt.edu/Utilities/kupu_edit.txt

we have the necessary HTML and Javascript to include in the newly created **kupu_edit** file. Note that YOU ONLY NEED TO CREATE THE **kupu_edit** ZPT FILE ONCE. It will act as an editing template that accesses the Javascript libraries for all edited documents (we discuss this later):

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:tal="http://xml.zope.org/namespaces/tal"
      xmlns:metal="http://xml.zope.org/namespaces/metal"
      xmlns:i18n="http://xml.zope.org/namespaces/i18n"
      tal:define="kupu here/kupu;
                  macros kupu/kupumacros/macros;
                  kupu url kupu/absolute url;
                  document url here/REQUEST/URL1">
  <!--
   Create a 'kupu editor' object in the folder where you want
   enable visual editing with kupu. Call it 'kupu' (you can ca
   something else, but this template relies on this name being
   'kupu'). Add a Page Template next to the kupu object and co
   contents of this file into it. Call the Page Template 'kupu
   or something like that. You can now point your browser at a
   URL, append '/kupu edit' and you will be able to edit the ol
   with kupu.
  Note: kupumacros require kupu url and document url be defin
   -->
  <head>
    <title>Kupu Editor example template</title>
```



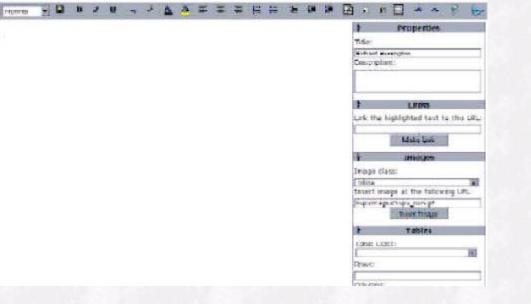
This text needs to be replaced by the contents of the kupu_edit.txt file. Highlight all of this text and push the delete key on the keyboard (i.e. Ctrl-a keys and then press delete). Then select the text from the kupu_edit.txt file and paste it into the window above (i.e. Ctrl-a, Ctrl-c, then Ctrl-v). Click **Save Changes**. If your editing changes to **kupu_edit** have been successful, you should see the following (note: there should not be any of the original text from the default creation of the kupu_edit file in the ZPT page template, **kupu_edit**):

🕛 Page Templat	e at /users/RichH/ <u>kupu_edit</u>	
Saved changes. (2006-06-15 15:57)	
Title		Conter
Last Modified	2006-06-15 03:47 PM	Brows Exp
xmlns:tal xmlns:met xmlns:i18	<pre>ttp://www.w3.org/1999/xhtml" ="http://xml.zope.org/namespaces/tal" cal="http://xml.zope.org/namespaces/met n="http://xml.zope.org/namespaces/i18n ne="kupu here/kupu; macros kupu/kupumacros/macros; kupu_url kupu/absolute_url; document_url here/REQUEST/URL1"></pre>	
Create a 'ku enable visus something ei 'kupu'). Ado contents of or something	upu editor' object in the folder where al editing with kupu. Call it 'kupu' (y se, but this template relies on this n a Page Template next to the kupu obje this file into it. Call the Page Templ g like that. You can now point your bro	You can call it name being ect and copy the ate 'kupu_edit' owser at any object's

To invoke the kupu editor for any HTML object (or in this case a DTML object - the default Zope index page), follow the HTML object name with the text **/kupu_edit** For example, using the full URL for the HTML object that you wish to edit, we type the following in the browser URL entry field (notice the /kupu_edit after the index_html object name):



You should see something like the following after the kupu editor has started:



To edit the contents in either the HTML source or WYSIWYG editing mode, click the edit button

(once for HTML source mode; click again to enter into the WYSIWYG editing mode):

You should see the text region is now active for editing or text entry (note the thin bar in front of the "R" of Richard):



Richard Herrington

This is the index_html Document in the Richard Herrington (RichH) Folder.

Clicking the save button will allow changes to be saved to the web server for the currently edited HTML file (note: you will be prompted for username-password login IF the directory that contains the HTML is password restricted). After making changes, and saving, you should see the following:



You WON'T be able to save any changes to the web server since the directory is password protected, but at least you can get an idea of how the kupu editor looks and feels "real time". Good luck!

Related Websites

Kupu Editor Kupu Documentation Lenya Kupu Documentation O'Reilly Article: Rich Web Text Editing with Kupu Kupu Zope Project Review of WYSIWYG Editors Using WYSIWYG Editors with Zope Zope Labs

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