

Philo - Bug #27

Handling form submission with Pages

10/19/2010 02:03 PM - Stephen Burrows

Status:	Feedback	Start date:	10/19/2010
Priority:	Normal	Due date:	
Assignee:	Stephen Burrows	% Done:	0%
Category:	Bartleby	Estimated time:	0.00 hour
Target version:			
Description			
<p>Currently, the only way to handle form submission for a certain page is to intercept the page's <code>about_to_render</code> signal and use the <code>replace_sender_response</code> function to swap in a new <code>HttpResponse</code>. However, this is inelegant, hackish, and will be difficult to maintain - for example, it generally relies on knowing something "immutable" about the page, such as its id or the path to a node that uses it. It would be more productive in the long run to have a clean standardized way to "register" Forms with a Page, then let the Page handle validation.</p> <p>Possible solutions:</p> <ol style="list-style-type: none">1. Bartleby forms. As these are defined in the database, it would be possible to have a relationship between them and a Page.2. An "advanced" page field that holds a list of form locations to be validated (i.e. <code>"django.contrib.auth.forms.UserCreationForm"</code>).3. A template tag that defines forms which are used on the page. Similar to containers, would be picked up by the page. <p>With any of these, the form would need a way to define its validation - what to do if there was a post, what to do if not, what to do if it's valid.</p>			

History

#1 - 10/29/2010 09:25 PM - Stephen Burrows

I'm working on solution 1 with bartleby. It seems to be going well... I am considering adding "advanced" fields that can reference python path locations of functions to check if a form should be evaluated for a given request...

This currently works (as of commit `585c315fde9781b72e1bacd430877c1e5b110e90`) with middleware which instantiates the forms and attaches them to the view's `kwargs` or, if there is valid post data, submits the forms and redirects back to the current page.

Although this solution is working well, I am skeptical of its viability for hard-core form handling. Bartleby forms are wired to save their results as result rows. That's the whole point: they are database-driven, not hard-coded. A contact/feedback form could be written in bartleby. So could a comment form. But not in the sense of `django.contrib`.

Should there be a separate, core way to handle python forms? Should bartleby forms be more empowered?

#2 - 11/02/2010 02:54 PM - Stephen Burrows

I think Bartleby forms should support the following options:

1. Record User / IP Address / Nothing
2. Require login i.e. require user.
3. Allow changes to your own previous (most recent?) submission.
4. Max number of submissions per user / IP - enforced preferentially through [#1](#), or by cookies otherwise.

Bartleby forms could support the following features, but it would be more complicated.

5. Token-based row requesting... i.e. select a user. A row is created and a link generated for that user. The link is sent to that user. This would possibly require selecting a node which can handle it. If users are not being recorded, the user would be set to `None` on submission, invalidating the token. No... it would need to give you a link to a Page that had the form in an attribute. the token would then somehow need to be passed to the form with the user id, row id, and timestamp - if relevant.
6. Timeout: optionally set a date after which the form cannot be accessed? Or only allow in conjunction w/ [#6](#).... or, if [#6](#) is selected, it's a timeout on the tokens, otherwise a timeout on the form in general.

#3 - 11/05/2010 11:14 PM - Stephen Burrows

It might be useful to handle forms via signals rather than in the `save()` method directly. Then people could make custom listeners, use attributes for more specific filtering, and do anything - even use the data to create actual models instead of result rows!

#4 - 01/31/2011 06:27 PM - Stephen Burrows

- Category changed from Core to Bartleby

- Assignee set to Stephen Burrows

Could potentially use or model after `django.contrib.formtools.FormWizard` for multi-page handling. Perhaps make a more differentiated Issue for this?