Springboard Blogly « Back to Homepage

Part Three: Add M2M Relationship Tag Model User Interface

Add Routes

Update Routes for Posts Further Study

Update Tag Add/Edit Forms

Add Tests

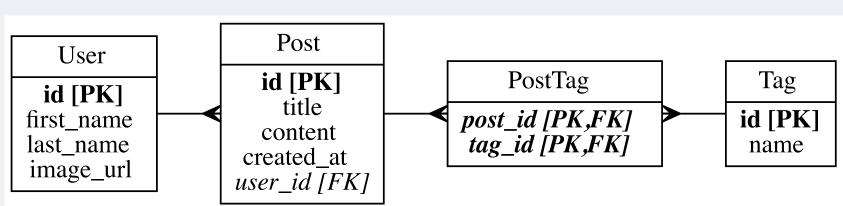
Solution

Part Three: Add M2M Relationship

The last part will be to add a "tagging" feature.

Tag Model

Blogly



The site will have a table of tags — there should be an SQLAlchemy model for this:

- id
- name, (unique!)

There should also be a model for *PostTag*, which joins together a *Post* and a *Tag*. It will have foreign keys for the both the post_id and tag_id. Since we don't want the same post to be tagged to the same tag more than once, we'll want the combination of post + tag to be unique. It also makes sense that neither the **post_id** nor **tag_id** can be null. Therefore, we'll use a "composite primary key" for this table— a primary key made of more than one field. You may have to do some research to learn how to do this in SQLAlchemy.

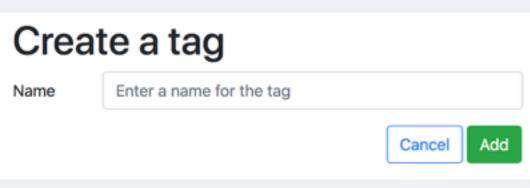
🌋 Springboard

Add relationships so you can see the .tags for a post, and the .posts for a tag.

STOP and play around with this feature in *IPython* before continuing.

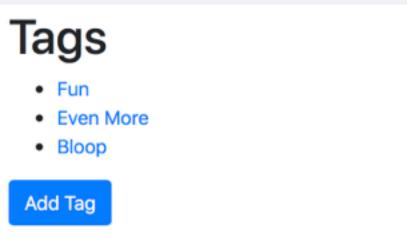
User Interface

Add Tag

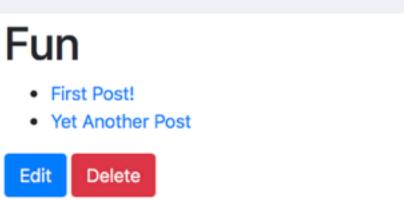




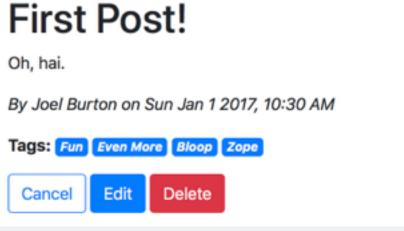
List Tag



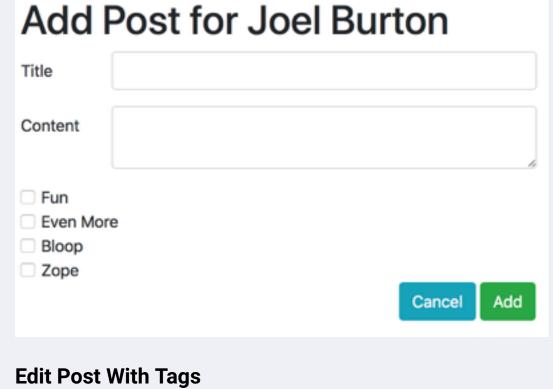
Show Tag



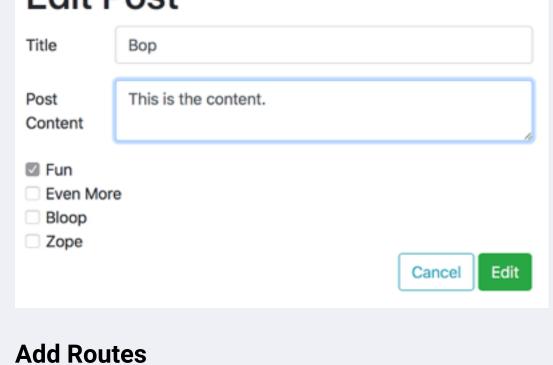
Show Post With Tags



Add Post With Tags



Edit Post



GET /tags

Lists all tags, with links to the tag detail page.

GET /tags/[tag-id] Show detail about a tag. Have links to edit form and to delete.

GET /tags/new

Shows a form to add a new tag. POST /tags/new

Process add form, adds tag, and redirect to tag list. GET /tags/[tag-id]/edit

Show edit form for a tag.

POST /tags/[tag-id]/edit

Process edit form, edit tag, and redirects to the tags list. POST /tags/[tag-id]/delete

Delete a tag.

Update Routes for Posts

other way you can solve this.

Update the route that shows a post so that it shows all the tags for that post. Update the routes for adding/editing posts so that it shows a listing of the tags and lets you pick which tag(s) apply to that post. (You can use whatever form element you want here: a multi-select, a list of checkboxes, or any

Hint **Getting Multiple Values From Form**

The normal way to get a value from a form, request.form['key'], only returns one value from this form. To get all of the values for that key in the form, you'll want to investigate .getlist.

Further Study

Edit these forms to let you pick posts for this tag.

Name

Name

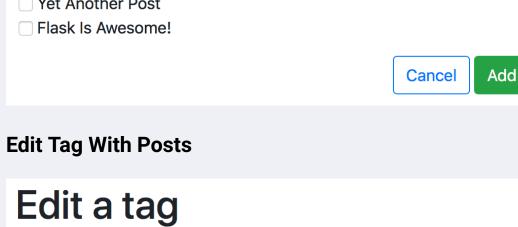
Edit Tag With Posts

Update Tag Add/Edit Forms

Create a tag

Enter a name for the tag

First Post! Yet Another Post



Yet Another Post

Flask Is Awesome! Edit Cancel If you made a homepage, make this show tags, too: **Blogly Recent Posts**

Flask Is Awesome!

Flask is a lovely framework for building cool things. By Joel Burton on Sun Feb 4 2018, 11:30 AM **Yet Another Post** Here is the content. By Joel Burton on Sun Feb 4 2018, 9:30 AM Tags: Fun First Post! Oh, hai. By Joel Burton on Sun Jan 1 2017, 10:30 AM

Tags: Fun Even More Bloop Zope

Add Tests

Solution

Add tests for your most critical pages.

Our Solution for Part Three