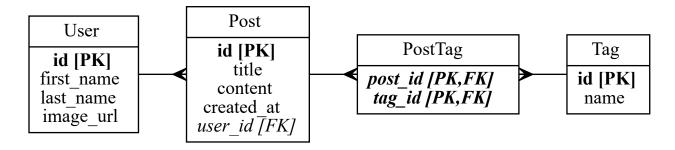
Blogly

Part Three: Add M2M Relationship

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

Tag Model



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.

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

Crea	te a tag		
Name	Enter a name for the tag		
		Cancel	< images/add-tag

Edit Tag

Edit a tag



<_images/edit-tag.png>

List Tag

Tags

- Fun
- Even More
- Bloop



<_images/list-tags.png>

Show Tag

Fun

- First Post!
- Yet Another Post



<_images/show-tag.png>

Show Post With Tags

First Post!

Oh, hai.

By Joel Burton on Sun Jan 1 2017, 10:30 AM



<_images/post-w-tags.png>

Add Post With Tags

Add Post for Joel Burton

Title			
Content		//	
Fun Even More Bloop Zope	е	Cancel Add	
			<_images/add-post-w-tags.png>
Edit Post \	With Tags		
Edit F	Post		
Title	Вор		
Post Content	This is the content.	a.	
Fun Even Mor Bloop Zope	re		
		Cancel Edit	

<_images/edit-post-w-tags.png>

Add Routes

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

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 other way you can solve this.

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

Update Tag Add/Edit Forms

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

Edit Tag With Posts

Create a tag Name Enter a name for the tag ☐ First Post! Yet Another Post ☐ Flask Is Awesome! Cancel Add <_images/add-tag-with-posts.png> **Edit Tag With Posts** Edit a tag Name Fun ▼ First Post! Yet Another Post ☐ Flask Is Awesome! Edit Cancel

<_images/edit-tag-with-posts.png>

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

<_images/homepage-w-tags.png>

Add Tests

Add tests for your most critical pages.

Solution

Our Solution for Part Three <solution/three.html>