

WEBD 236 Lab 4

If you use an external source (i.e. a web-page, the required textbook, or an additional book) to help you answer the questions, then be sure to cite that source. You should probably always be citing a source.

Problem

It's time to expand the blog to add the capability of searching by tag and to add/delete comments. In the process, you should also add validation for fields such as strong passwords and valid e-mail addresses. You should add the following features

- Clickable tag names. Since tags are stored in a single field attached to the comment, you will need to use a regular expression to break the string into an array of strings that are the tags. You will then need to iterate through those strings, forming an anchor tag for each that points to a new tag controller (i.e. tag/view/sometagname). Clicking on a tag name should show all posts that contain that tag.
- Comments on posts. Comments will involve another table in the database containing the date stamp of the comment, the user id of the commenter (only registered users can comment), the post id to which the comment is attached, and the text of the comment itself. When viewing a post, you should also see all the comments. Comments can't be edited once posted, but they can be deleted by the person who created the comment.
- Data validation using the Validator class. This is to ensure that all required fields have values, and that structured fields (such as email addresses and passwords) conform to expected norms.
- Object-oriented models. All model classes should be objects. This is consistent with your homework 8 assignment.
- You will now need to be much more careful when deleting records because you will need to maintain referential integrity:
 - When a user is deleted, all the posts of that user as well as all their comments should also be deleted.
 - When a post is deleted, all its associated comments should also be deleted.

The following screen shots should help you to understand more fully:

Welcome, Todd Whittaker [Home](#) [My profile](#) [Log out](#)

My Blog

Recent Posts

[A post by Joel](#)
 Posted 2012-03-11 17:15:02 by [Joel Anderson](#)
 Filed under: [comments](#)
 This is Joel's first post. It has two paragraphs. And I'll comment on it too....

[A longer post with several paragraphs](#)
 Posted 2012-03-11 17:13:54 by [Todd Whittaker](#)
 Filed under: [tdr rocks](#)
 Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris augue elit, varius in accumsan eget, tincidunt sit amet ante. Donec massa lorem, accumsan et egestas et, vulputate non elit. Phasellus d...

[Hello world](#)
 Posted 2012-03-02 22:09:40 by [Todd Whittaker](#)
 Filed under: [injection rocks](#)
 This is an attempt at <code>injection</code>....

[Add a post](#)

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Notice above that each tag is now its own hyper-link. When the user clicks on the hyperlink, the application finds all the posts with that tag, and displays them, as shown below:

Welcome, Todd Whittaker [Home](#) [My profile](#) [Log out](#)

Posts tagged 'rocks'

[A longer post with several paragraphs](#)
 Posted 2012-03-11 17:13:54 by [Todd Whittaker](#)
 Filed under: [tdr rocks](#)
 Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris augue elit, varius in accumsan eget, tincidunt sit amet ante. Donec massa lorem, accumsan et egestas et, vulputate non elit. Phasellus d...

[Hello world](#)
 Posted 2012-03-02 22:09:40 by [Todd Whittaker](#)
 Filed under: [injection rocks](#)
 This is an attempt at <code>injection</code>....

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When viewing a post, you can now see all the comments that are associated with the post as well as add your own comment. There is no separate form for adding comments; it is embedded into the page that views posts:

Welcome, [Todd Whittaker](#) [Home](#) [My profile](#) [Log out](#)

A post by Joel

Posted 2012-03-11 17:15:02 by [Joel Anderson](#)

Filed under: [comments](#)

This is Joel's first post.

It has two paragraphs. And I'll comment on it too.

Add a comment

Comments:

Posted 2012-03-11 17:15:02 by [Joel Anderson](#)
Thanks for your comment, Todd. You can get a newline without submitting the form by pressing Shift-Enter.

Posted 2012-03-11 17:15:02 by [Todd Whittaker](#)
Having multiple paragraphs is a great idea. How do you go to a new paragraph without accidentally submitting the form?
[\[Delete\]](#)

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Notice in the above as well that Todd Whittaker is logged in, and Todd can delete his own comment, but not the comment by Joel Anderson. But, if no user is logged in, then the comment form should not be displayed (see below).

[Home](#) [Register](#) [Log in](#)

A post by Joel

Posted 2012-03-11 17:15:02 by [Joel Anderson](#)

Filed under: [comments](#)

This is Joel's first post.

It has two paragraphs. And I'll comment on it too.

Comments:

Posted 2012-03-11 17:33:46 by [Joel Anderson](#)
Thanks for your comment, Todd. You can get a newline without submitting the form by pressing Shift-Enter.

Posted 2012-03-11 17:16:57 by [Todd Whittaker](#)
Having multiple paragraphs is a great idea. How do you go to a new paragraph without accidentally submitting the form?

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Finally, validation should be put in place that handles email addresses, required fields, and passwords. The figure below shows a weak password and a bad email address.

[Home](#) [Register](#) [Log in](#)

Edit user

Please correct the following errors:

- Invalid email address
- Password must be at least 8 chars, have an upper case character, a symbol, and a number

First name

Last name

E-mail address

Password

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Basic Requirements:

- Make all tags be links.
- Tag links should display a page with all posts containing that tag.
- Add a comments form to the view post screen.
- Only registered users can comment (don't display this form if the user isn't logged in).
- A user can delete his/her own comment, but nobody else's.
- All fields should be validated using the Validator class (required, email, password, etc).
- Model classes should now be object-oriented.
- Maintain referential integrity (deleting posts deletes all comments for that post, deleting users deletes all posts by that user and all comments by that user).
- All lab 3 requirements should still also be met.

Helpful Hints

- See the validation class posted on the supplemental web site.
- You should use SQLite (not MySQL) for this project.
- Make sure that your project works on any server on any directory. In other words, you should never hard-code a URL with the name or IP address of your machine. We won't be using your machine when we test it. Also, you should not hard-code a directory name in your application. It should run as <http://localhost/blog/index> or as <http://localhost/myblog/index> or any other directory URL.
- Use the MVC framework developed in class. This will help, since the project is getting bigger.

Submission instructions

Create a ZIP file of your entire project contents as it is found under your C:\XAMPP\htdocs\blog3\ directory. This ZIP file should contain your database, your PHP scripts, style files, etc. Follow proper coding conventions (indentation, commenting, etc.) that you would have learned in previous courses.

Submit the ZIP file to the dropbox for this assignment in the course.