

Winter 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 forum to add the capability of searching by tag and to add/delete answers. 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 questions that contain that tag.
- Answers on questions. Answers will involve another table in the database containing the date stamp of the answer, the user id of the answering user (only registered users can answer), the question id to which the answer is attached, and the text of the answer itself. When viewing a question, you should also see all the answers. Answers can't be edited once posted, but they can be deleted by the person who created the answer.
- 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 questions of that user as well as all their answers should also be deleted.
 - When a question is deleted, all its associated answers should also be deleted.

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

Welcome, Scott Sharkey

HomeMy profileLog out

My Question and Answer Forum

Recent Questions

[What is My Real Name?](#)
Posted 2013-02-23 06:22:00 by [Mark Smith](#)
Filed under: [smart](#)
Hello All - what is my real name...

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

[A longer question with several paragraphs](#)
Posted 2012-03-11 17:13:54 by [Scott Sharkey](#)
Filed under: [tldr 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 [Scott Sharkey](#)
Filed under: [injection rocks](#)
This is an attempt at *injection*....

[Add a question](#)

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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 questions with that tag, and displays them, as shown below:

Welcome, Scott Sharkey

[Home](#)

[My profile](#)

[Log out](#)

Questions tagged 'rocks'

[A longer question with several paragraphs](#)

Posted 2012-03-11 17:13:54 by [Scott Sharkey](#)

Filed under: [tldr](#) [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 [Scott Sharkey](#)

Filed under: [injection](#) [rocks](#)

This is an attempt at *injection*....

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

Welcome, Scott Sharkey

Home

My profile

Log out

A question by Joel

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

Filed under: [answers](#)

This is Joel's first question.

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

Add an answer

Submit

Answers:

Posted 2012-03-11 17:33:46 by [Joel Anderson](#)

Thanks for your comment, Scott. You can get a newline without submitting the form by pressing Shift-Enter.

Posted 2012-03-11 17:16:57 by [Scott Sharkey](#)

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 Scott Sharkey is logged in, and Scott can delete his own answer, but not the answer by Joel Anderson. But, if no user is logged in, then the answer form should not be displayed (see below).

A question by Joel

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

Filed under: [answers](#)

This is Joel's first question.

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

Answers:

Posted 2012-03-11 17:33:46 by [Joel Anderson](#)

Thanks for your comment, Scott. You can get a newline without submitting the form by pressing Shift-Enter.

Posted 2012-03-11 17:16:57 by [Scott Sharkey](#)

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 an existing email address.

Edit user

Please correct the following errors:

- Email address is already in use.
- 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 questions containing that tag.
- Add an answers form to the view question screen.
- Only registered users can answer (don't display this form if the user isn't logged in).
- A user can delete his/her own answer, 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 questions deletes all answers for that question, deleting users deletes all questions by that user and all answers 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/forum/index> or as <http://localhost/myforum/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\forum4\ 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.