Blogs Assignment

Due May 21 by 11:59pm   **Points** 40   **Submitting** a website url

Overview

This assignment will focus on creating an MVC website using the Fat Free Framework. This is a challenging 40-point assignment, the equivalent of two regular assignments. Be sure to start early!

Requirements

This assignment has the following requirements:

- A manageable folder structure.
  - You should have folders for each type of MVC entity.
  - You should have a styles folder for css files.
  - You should have a js folder for JavaScript files.
- Use the Fat Free Framework
  - All files must be accessed through a defined route in the F3 router.
  - All data visible in your view files should be loaded through the use of template blocks {{ ... }}, <repeat> and <check> tags.
  - Your work on this website should show a firm understanding of the F3 templating language.
- Use the MVC paradigm for all files.
  - You must define model files for accessing your database.
  - You must define view files for displaying pages.
  - You must define controller files to handle user requests and play middleman between views/model code.
- Define classes to represent a Blogger, and a BlogPost.
- Frequently save your work to Github
  - Your Github log should show *regular commits* to your repository.
- All data for the website needs to be saved to your database
  - You can create any database structure you like, but be sensible and put together a good design.
  - Copy your create table statements to a readme file in your project folder.

Home Page

When a new user visits the root URL of the blog site, they are presented with a list of bloggers that use the site in the center of the page. Each blogger has a portrait image, name, a link to their blogs page, a count of their blog posts, and an excerpt to their most recent blog (if there is any).

Joe Shmoe Blogger

view blogs   Total: 10

Something from my latest blog:
"Lorem ipsum dolor sit amet,
consectetur adipiscing elit. Aenean ac
aliquam diam, in venenatis quam.
Proin suscipit nulla et risus dictum
gravida."

Joe Shmoe Blogger

view blogs   Total: 10

Something from my latest blog:
"Lorem ipsum dolor sit amet,
consectetur adipiscing elit. Aenean ac
aliquam diam, in venenatis quam.
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consectetur adipiscing elit. Aenean ac
aliquam diam, in venenatis quam.
Proin suscipit nulla et risus dictum
gravida."

Clicking on any of the users above will send the client to a page that shows the blog posts for the selected user.

Joe Shmoe's Blogs

My most recent blog:

Excerpt: "Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean ac aliquam diam, in venenatis quam. Proin suscipit nulla et risus dictum gravida. Phasellus eu tortor at odio consectetur feugiat. Etiam risus quam, posuere quis est euismod, dapibus convallis ligula. Morbi nec magna non metus volutpat vestibulum vulputate in felis...."

My blogs:

The words of Abraham Lincoln - word count 716 - 12/02/2007

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam euismod urna a gravida porttitor. Proin quis sodales turpis, eget lacinia lectus. Aenean non ante ut ante pharetra posuere sed in massa.

Renovating my house - word count 202 - 09/10/2007

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam euismod urna a gravida porttitor. Proin quis sodales turpis, eget lacinia lectus. Aenean non ante ut ante pharetra posuere sed in massa.

The Mariners are losing again! - word count 998 - 05/04/2007

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam euismod urna a gravida porttitor. Proin quis sodales turpis, eget lacinia lectus. Aenean non ante ut ante pharetra posuere sed in massa.

Starbucks isn't what it used to be - word count 1623 - 01/30/2007

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam euismod urna a gravida porttitor. Proin quis sodales turpis, eget lacinia lectus. Aenean non ante ut ante pharetra posuere sed in massa.

Taking a breather during your work day - word count 111 - 02/17/2006

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam euismod urna a gravida porttitor. Proin quis sodales turpis, eget lacinia lectus. Aenean non ante ut ante pharetra posuere sed in massa.

Joe Shmoe

Bio: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean ac aliquam diam, in venenatis quam. Proin suscipit nulla et risus dictum gravida. Phasellus eu tortor at odio consectetur feugiat. Etiam risus quam, posuere quis est euismod, dapibus convallis ligula. Morbi nec magna non metus volutpat vestibulum vulputate in felis. Phasellus lacinia quam a elementum malesuada. Nam blandit venenatis eleifend.

Clicking on a blog title above will send the user to a page to view the full contents of that blog post.

The Words of Abraham Lincoln

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc in maximus mauris. Donec ultricies dolor velit, id tempus ex tincidunt at. Nunc venenatis ex sed pretium malesuada. Nullam augue augue, tincidunt et tempor a, mattis non orci. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc in maximus mauris. Donec ultricies dolor velit, id tempus ex tincidunt at.

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Navigation for Guests

For a user that is not logged in, they see the following navigation pane on the left side of the screen at all times.

Blog Site

Home >
Become a Blogger >
About Us >
Login >

Clicking "Home" sends a user to the base URL for the site. Clicking "About Us" displays an about us page.

The Blog site

Your one-stop shop for internet blogs

BLOG

The Internet is abuzz with our blog content.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc ut porta dui. Nam maximus et mauris eu tempor. Nulla rhoncus lorem pharetra molestie blandit. Sed pellentesque lacus quis aliquam maximus. Integer sodales eget purus vitae condimentum. Phasellus neque neque, rutrum ut mattis ut, tincidunt eget ante. Vivamus faucibus augue in euismod ultrices.

Hear what others are saying about us!

"Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc ut porta dui. Nam maximus et mauris eu tempor. " - long time user Sally Nguyen
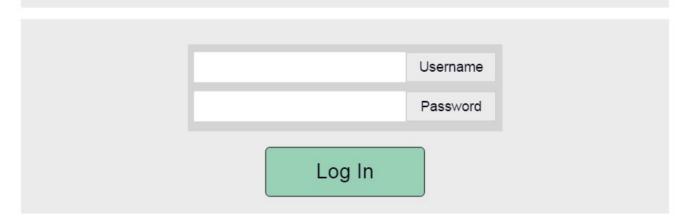
"Lorem ipsum dolor sit amet, consectetur..." - blog contributer Terry Stone

Clicking "Log in" sends an existing user to the log in page where they can validate their credentials and then be presented with a new menu.

Lastly, clicking "Become a Blogger" allows a new user to register and login simultaneously.

This screen gathers user details: username, password, email, bio and an image for the user. The image should be uploaded in the same form, sent to the server, and saved to an images directory which can then be retrieved at a later point. The image should then be displayed on the home page and blogs page for that user.

Navigation for Logged In Users

After clicking the "Start Blogging!" button, or by using the log in form seen above for existing users, the user should be logged in and see the following menu on the left side of the screen at all times.

Selecting "Create Blog" will show a form for creating a new blog entry.

What's on your mind?

	Title

Blog Entry

Save

After clicking "Save", or when clicking the "My Blogs" link from the menu above, the user will be presented with a list of their own blog posts.

Note: this is screen should only be visible if the user who wrote these blogs is the current logged-in user.

Your blogs

Blog	Update	Delete
The words of Abraham Lincoln	🔧	✕
Renovating my house	🔧	✕
The Mariners are losing again!	🔧	✕
Starbucks isn't what it used to be	🔧	✕
Taking a breather at work today	🔧	✕

Joe Shmoe

Bio: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean ac aliquam diam, in venenatis quam. Proin suscipit nulla et risus dictum gravida. Phasellus eu tortor at odio consectetur feugiat. Etiam risus quam, posuere quis est euismod.

Clicking the delete image above will remove the blog from the database. Clicking the update image above will show the following form with that blog's contents. Clicking update will update the corresponding record in the database.

Hints

- The descriptions above leave much unsaid. Feel free to make reasonable assumptions about the design.
- You can make small CSS changes to the site depicted above.
  - A small change would be fonts, colors, text wording, and icons.
  - A large change would be moving the position of the menus or the location of form elements.
- Start small, and test as you go. Make sure that one piece is working before moving on to the next piece.
- You may want to begin by pre-populating your database with a few bloggers, and a few blog posts for each. See if you can get them to display properly in the pages before moving on to the add/edit/delete functionality.
- Don't forget to commit your changes to GitHub *regularly!*
- Here is a zip folder with the images used above: **images.zip** ⬀. Notice that there is no image for the portrait of a blogger. This should be an uploaded file that is provided by the user.

Submission

- Submit a link to your website on greenrivertech.net. In the comment field in Canvas, paste the link to your GitHub repository. You do not need to submit a zip file.
- I will review your code submitted to Github. Make sure your repository is up to date.
- Start early! This is a large project and will take time to complete.

Blogs Rubric

Criteria	Ratings		Pts
Files are organized into correct folders, including one for each type of MVC entity.	Full Marks 1.0 pts	No Marks 0.0 pts	1.0 pts
All files are accessed through a route in the F3 router.	Full Marks 2.0 pts	No Marks 0.0 pts	2.0 pts
All data in view files is loaded through template blocks.	Full Marks 3.0 pts	No Marks 0.0 pts	3.0 pts
Model, view, and controller files are properly defined and utilized.	Full Marks 2.0 pts	No Marks 0.0 pts	2.0 pts
Work is saved to GitHub, and GitHub shows regular commits.	Full Marks 3.0 pts	No Marks 0.0 pts	3.0 pts
Database is well-designed. Database create table statements are in a readme file in the project folder.	Full Marks 2.0 pts	No Marks 0.0 pts	2.0 pts
Home page displays list of bloggers with portrait image, name, link to blogs page, total blog count, and excerpt from the most recent blog post (if one exists).	Full Marks 2.0 pts	No Marks 0.0 pts	2.0 pts
Clicking a blogger displays a list of blog posts for that blogger, with the most recent at the top, and the blogger's portrait and bio.	Full Marks 2.0 pts	No Marks 0.0 pts	2.0 pts
Clicking a blog title displays the full contents of that blog post.	Full Marks 2.0 pts	No Marks 0.0 pts	2.0 pts
Appropriate navigation bar appears at the left side of every page. Navigation options are appropriate to logged in users or visitors.	Full Marks 2.0 pts	No Marks 0.0 pts	2.0 pts
Home link goes to home page.	Full Marks 1.0 pts	No Marks 0.0 pts	1.0 pts
About Us link displays an about us page.	Full Marks 2.0 pts	No Marks 0.0 pts	2.0 pts
Log in directs to log in form, which allows users to log in.	Full Marks 2.0 pts	No Marks 0.0 pts	2.0 pts
Become a Blogger allows users to register, upload an image, and log in.	Full Marks 2.0 pts	No Marks 0.0 pts	2.0 pts
Create Blog link displays a form for creating a new blog entry, and saves it to the database.	Full Marks 2.0 pts	No Marks 0.0 pts	2.0 pts

Criteria	Ratings		Pts
My Blogs page displays a list of the user's blogs, with update and delete icons for each, and the user's image and bio.	Full Marks 2.0 pts	No Marks 0.0 pts	2.0 pts
Delete icon removes a blog from the database.	Full Marks 1.0 pts	No Marks 0.0 pts	1.0 pts
Update icon displays an edit form, which the blogger can use to update a blog title or entry.	Full Marks 2.0 pts	No Marks 0.0 pts	2.0 pts
Site URL and GitHub URL are submitted.	Full Marks 1.0 pts	No Marks 0.0 pts	1.0 pts
All code is well-documented, concise, and follows PEAR standards.	Full Marks 2.0 pts	No Marks 0.0 pts	2.0 pts
Classes are defined and utilized for Bloggers and BlogPosts.	Full Marks 2.0 pts	No Marks 0.0 pts	2.0 pts
		Total Points: 40.0	