Assignment 3 - Blogging Application

Goal

Use <u>these starting files</u>. Failure to do so will result in a mark of 0 for this assignment.

The goal of this assignment is to create a simple blogging application. This application will include username and password authentication along with the full suite of CRUD tasks for blog posts.

This assignment will also be a test of your overall PHP coding abilities as you will need to make use of a wide range of PHP skills to complete the blogging application. You will be marked using the rubric at the end of this assignment. Be sure to read over this rubric before you begin coding.

A working version of this assignment can be seen here:

http://stungeye.com/school/blog/

(user: ghostface pass: killa)

Blog Posts

For this assignment a blog post will consist of the following elements:

- Title of the Post
- Content of the Post
- Date/Time Stamp when the Post was saved -- use TIMESTAMP datatype in MySQL (which sets the column value to the current date/time by default)

Authentication

Authentication will be handled using simple HTTP authentication (See Appendix a). In the sections below I will define the different user stories available to

authenticated and unauthenticated users.

Unauthenticated User Stories

As an non-authenticated user I should be able to:

- View a home page that lists the title, date/time stamp and excerpt of the 5 most recently posted blog entries (in reverse chronological order).
- Click the title and "Read Full Post" links on the home page to view a full blog post.

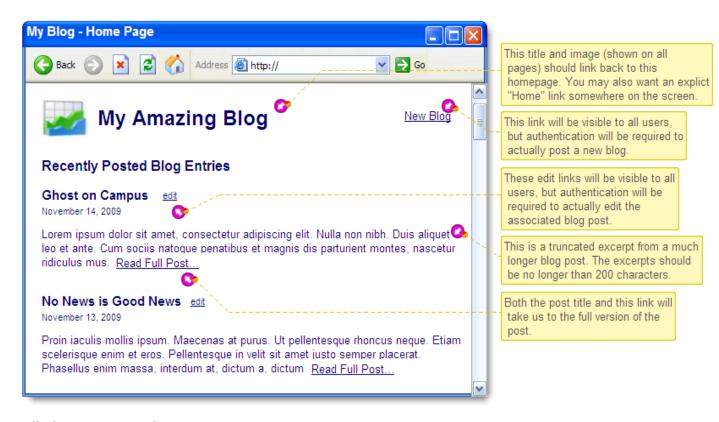
Authenticated User Stories

As an authenticated user I should be able to:

- Post a new blog entry using an HTML form.
- Edit any of the existing post using an HTML form.
- Delete any of the existing posts.

Screen Mockups

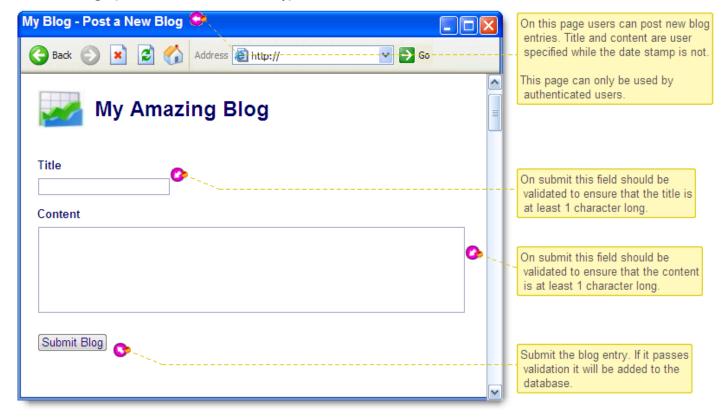
Home Page:



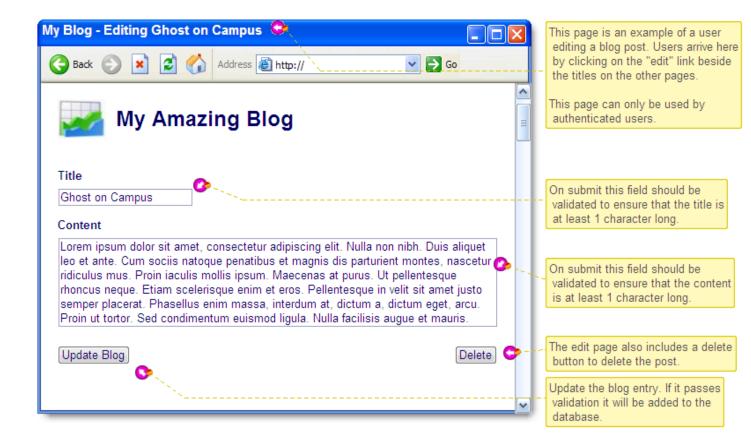
Full Blog Post Example:



New Post Page (Authenticated Users Only):



Edit Post Page (Authenticated Users Only):



Submission and Rubric

You will submit your blogging application within a zip file to the Learn Dropbox folder.

Please be sure to include an export of your database in SQL format. (Use phpMyAdmin to export your database.)

Deduct from a total of 10 marks the points associated with incomplete or incorrectly implemented items listed below.

Home Page: (1 point each)

- Five most recent blog posts displayed in reverse chronological order.
- For each of these posts you should display: Title, Timestamp, Content
- Blog post titles link to full page for each post. (This link includes a GET parameter to specify the post id.)

- If blog content is larger than 200 characters the displayed content is truncated to 200 characters.
- If the content is truncated a "Read Full Post" link should be displayed after the content. (This link includes a GET parameter to specify the post id.)
- An edit link is displayed for each post. (The link includes a GET parameter to specify the post id.)
- A "New Post" link is present somewhere on this page.

Full Post Page: (1 point each)

- Displayed on this page: Post title, timestamp, full post content, edit link
- The blog displayed is determined by a GET parameter in the URL. This parameter should be the post's primary key id from the database table.

New Post Creation: (1 point each)

- Provides a form where the user can enter a new post title and contents.
- The form includes a button for submitting the post to the database.
- This page is protected by HTTP authentication.

Post Update and Delete: (1 point each)

- Provides a form where the user can edit a specific post title and contents.
- The post being edited is determined by a GET parameter in the URL. This parameter should be the post's primary key id from the database table.
- The title and content of the post being edited should appear in the form.
- The form includes a button for updating the post in the database.
- The form includes a button to delete the current post from the database.
- This page is protected by HTTP authentication.

Security: (2 points each)

- Ensure that any id values passed by the user are validated as integers before you use them in a SQL query. This is especially important when updating or deleting a post. If you receive a non-numeric id, redirect the user back to the index page.
- All user submitted strings (POSTed titles and blog content) must be sanitized

using input_filter and inserted/updated using PDO statements with placeholders bound to values.

Validation and Formatting: (1 point each)

- All dates should be formatted: "MonthName dd, yyyy, hh:mm am/pm"
 - Hint: You will need a PHP function to format the date. Also check out the strtotime function.
- New / Updated Posts are validated to ensure the title and content are both at least 1 character in length.
- A validation error message is displayed if validation fails.

General: (1 point each)

- All scripts include a comment block at the top describing the purpose of the script.
- No PHP/SQL errors are triggered and/or displayed while interacting with your blog.
- All PHP code is properly indented when nested.
- All markup must validates as HTML5.

Appendix A - HTTP Authentication

Adding authentication to a specific script should be as simple as adding the following to the top of the script:

```
require 'authenticate.php';
```

Where the authenticate.php file contains:

```
<?php

define('ADMIN_LOGIN', 'wally');

define('ADMIN_PASSWORD', 'mypass');</pre>
```

This script will prompt for a username and password. If the incorrect user/pass is provided it will exit and display an error message. Feel free to change the username and password by modifying the ADMIN_LOGIN and ADMIN_PASSWORD constants.