Assignment 3- Web design and Development PROG8166

**Title:**

Conestoga Blog   
  
**Student Name:**

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**Overview:**

To meet the requirements of the assignment objectives, I have created this Conestoga blog project using the technologies and tools below.

* PHP
* MySQL
* JavaScript
* Bootstrap
* Box icons
* CKEditor

**Feature Implementation:**

1. User Authentication:
   1. Allow users to sign up with unique credentials
      1. For this functionality, I have created a signup page and kept email id unique in the system and added validation for the same.
      2. If the user already exists with the entered email system will give an error message.
      3. In the Registration form, I have added required validation using html.
   2. Enable login functionality for registered users
      1. For this functionality, I have created a login page.
      2. After successful login-maintained session for the user.
   3. Implement secure password storage and authentication mechanisms
      1. For secure password storage storing encrypted hash password in database.
      2. While registering, the user is required to add a strong password.
2. Blog Post Management
   1. Provide users with the ability to create new blog posts
      1. Logged in users can create posts.
      2. Integrated CKEditor for adding blog description.
   2. Enable users to edit and delete their own posts
      1. Logged in users can edit and delete their posts from My Blogs Page.
      2. My Blogs page displays the blog created by the user.
   3. Implement appropriate validation mechanisms to ensure data integrity
      1. Only logged in users can perform operations like editing and deleting posts.
3. Comment System
   1. Allow users to comment on blog posts
      1. Only logged in users can comment on post.
      2. Users can see their comments
   2. Implement moderation features to manage comments
      1. Users can edit or delete their own comments from the post detail page.
4. User Interface
   1. Design a user-friendly interface for seamless navigation and interaction.
      1. For easy navigation added navigation bar.
      2. Users can easily navigate from blog list to detail page.
      3. Added buttons for allowing users to interact with system and perform actions.
   2. Ensure responsive design to support various devices and screen sizes
      1. I tried to use bootstrap’s flex design and grid system for responsive design.
5. Documentation
   1. I have added comments in codebase for better readability.

**Database Design:**

I have created below tables for implementing Conestoga Blog System

1. posts
   1. Post\_id
   2. description
   3. created\_by
   4. created\_at
   5. updated\_at
   6. total\_comments
2. post\_comments
   1. post\_comment\_id
   2. comment
   3. commented\_by
   4. created\_at
   5. updated\_at
3. User
   1. user\_id
   2. first\_name
   3. last\_name
   4. email
   5. Password
4. For managing total\_comments count I have created two triggers in database.
   1. After INSERT post comment
   2. After Delete post comment

**Setup Instructions:**

1. Import attached database file into phpMyAdmin.
2. Copy the code folder in htdocs folder of xampp.
3. Start Apache and PHP service from xampp.
4. Run the file – index.php
5. Register into the system else use below credentials to login
   1. d[hruti.m25@gmail.com](mailto:Dhruti.m25@gmail.com) / Dhruti@123
   2. [malaxi@gmail.com](mailto:malaxi@gmail.com) / Malaxi@123