

Herald College, Kathmandu

Full Stack Development (5CS045)



BLOGGING PLATFORM CMS

Full Site Implementation

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Project Overview

This project is based on building a Blogging Platform CMS using different technologies such as: PHP, MySQL, HTML, CSS, JS and AJAX.

It allows authorized users to manage internal features like: create, delete, post while public views can read and comment on the posts.

The system aims to focus on:

- Security (CSRF, prepared statements, authentication)
- Usability (Live search, Load More, filters)
- Role-Based Access Control (RBAC)
- Clean UI with mobile responsive design

1. Login Credentials

1.1.Admin Account I

- I. Username: admin
- II. Password: admin123

1.2.Admin Account II

- I. Username: Eujina
- II. Password: Deepshikha@123

2. Setup Instructions

2.1.For Users

- I. Index.php page
Access to public page only to read view all the blog contents created by admin or authors.
- II. View all the posts
- III. Access to search posts by category, title. Access to advanced search as well.
- IV. Users can read the contents inside the blog and has feature of comments to provide a review to the author.

2.2.For admins

- I. Full access for all the pages to create, update, delete and read.
- II. Controlled CMS platform
- III. Access to Login page:
- IV. Provide correct username and password.
- V. Navigated to dashboard page.
- VI. From dashboard page, admin can get access to create, delete, or edit their contents.

2.3.Login Page:



Admin Login

Login

2.4.Dashbaord.php:

- Access to adding post, managing post and log out

The screenshot shows the CMS Dashboard interface. At the top, there is a dark header bar with the CMS logo, the text "Blogging Platform CMS", and navigation links for "Dashboard", "+ Add Post", "Manage Posts", and "Logout". The main area is titled "Dashboard" and contains three cards:

- Add New Post**: A card with the text "Create a new blog post" and a green "Add Post" button.
- Manage Posts**: A card with the text "Edit or delete posts" and an orange "Manage" button.
- Logout**: A card with the text "Securely exit dashboard" and a red "Logout" button.

2.5.Add post page:

- Add post including title, category, contents, and tags according to the author or admin.

The screenshot shows a light beige 'Add New Post' form. At the top left is a 'Post Title' input field with placeholder text 'Enter post title'. Below it is a 'Content' area with a large text input field containing placeholder text 'Start writing your content...'. Underneath is a 'Category' dropdown menu labeled 'Select category'. At the bottom left is a 'Tags' section with several small checkboxes: CMS, MySQL, PHP, Programming, Travelling, and Web Development. A green 'Publish Post' button is located at the bottom right.

2.6.Manage page:

- Admin can edit and delete the contents or posts if necessary.

The screenshot shows a dark blue header bar with a logo on the left and navigation links: 'Blogging Platform CMS', 'Dashboard', 'Add Post', 'Manage Posts', and 'Logout'. Below is a light beige 'Manage Posts' table. The table has columns: 'Title', 'Category', 'Author', 'Date', and 'Actions'. It lists ten posts with the following data:

Title	Category	Author	Date	Actions
CSFR	Technology	Eujina	2026-02-02 16:32:25	Edit Delete
Authentication	Technology	Eujina	2026-02-02 12:33:50	Edit Delete
SEO	Technology	Eujina	2026-01-30 01:00:32	Edit Delete
Full Stack Development	Programming	Eujina	2026-01-30 00:56:55	Edit Delete
Programming	Programming	Eujina	2026-01-29 11:28:13	Edit Delete
AI and Tech	Technology	Eujina	2026-01-28 21:44:18	Edit Delete
Lifestyle	Lifestyle	admin	2026-01-27 09:31:54	Edit Delete
Website	Technology	admin	2026-01-26 23:36:05	Edit Delete
Travelling	Lifestyle	admin	2026-01-26 18:17:25	Edit Delete

At the bottom left of the table area is a link '← Back to Dashboard'.

3. Features Implemented

3.1. Authentication & Security

- Proper Login system with sessions
- Password hashing & verification
- CSRF protection for forms
- Role-Based Access Control (RBAC)
- SQL Injection
- XSS

3.2. Content Management

- Add or create a new post
- Edit post
- Delete post
- Manage posts with edit and delete feature

3.3. Categories & Tags

- Create categories (Admin only)
- Create tags (Admin only)
- Assign tags to posts

3.4. Comments

- Users can add comments
- CSRF protection on comment form

3.5. Search & AJAX

- Advanced search (by title + author)
- AJAX Live Search (real-time)
- Load More posts using Fetch API

3.6. UI and CSS

- Responsive layout
- Styled dashboard and post cards
- Flash success messages

4. Technologies Used

Layer	Technology
Frontend	HTML5, CSS3, JS
Backend	PHP (Procedural + PDO)
Database	MySQL
Security	CSRF Tokens, Sessions and Password Hashing.
Server	XAMPP / Apache / Student Server

5. Known Issues

- Minor CSS differences on student and college server.
- No user registration (accounts are pre-created).

6. Notes

- This project follows **procedural PHP (no frameworks)** as required
- All database queries use **PDO prepared statements**
- AJAX is applied using **Fetch API**
- Security handled with **sessions, CSRF, and RBAC**

7. Author

- **Name:** Deepshikha
- **Module:** Full Stack Development
- **Site Project:** Blogging Platform CMS

8. Appendix

College Server Link:

<https://student.heraldcollege.edu.np/~np03cs4a240322/public/>

GitHub Link:

<https://github.com/Deepshikha117/Blogging-Platform-CMS>