

Herald College, Kathmandu

Full Stack Development (5CS045)



BLOGGING PLATFORM CMS

Full Site Implementation

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Submission Date: 3rd Feb, 2026

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:

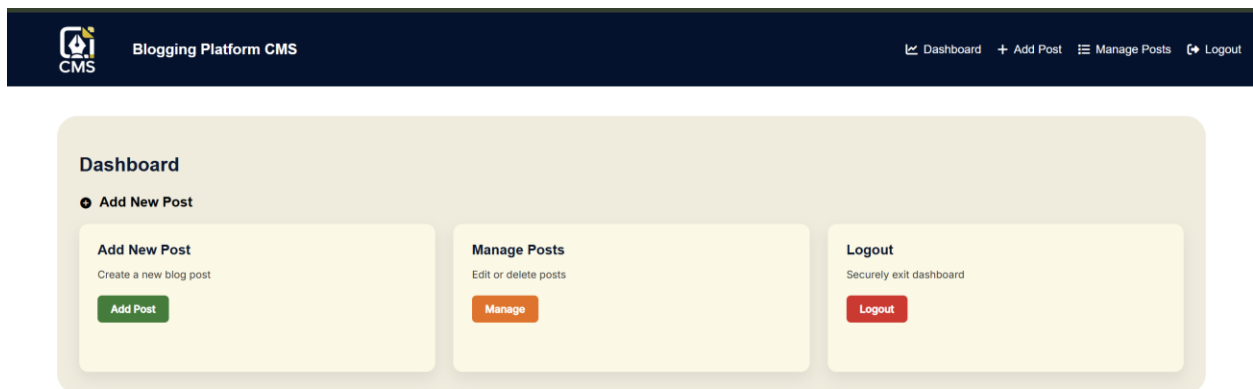


Admin Login

Login

2.4.Dashbaord.php:

- Access to adding post, managing post and log out



2.5.Add post page:

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

Add New Post

Post Title

Content

Start writing your content...

Category

Select category

Tags

☐ CMS ☐ MySQL ☐ PHP ☐ Programming ☐ Travelling ☐ Web Development

Publish Post

2.6.Manage page:

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

Manage Posts

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

[← 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.heraldcollge.edu.np/~np03cs4a240322/public/>

GitHub Link:

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