

Herald College, Kathmandu

Full Stack Development (5CS045)



## BLOGGING PLATFORM CMS

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## Contents

<b>Project Overview</b> .....	3
<b>1. Login Credentials</b> .....	4
1.1.Admin Account I.....	4
1.2.Admin Account II.....	4
<b>2. Setup Instructions</b> .....	4
2.1.For Users .....	4
2.2.For admins.....	4
2.3.Login Page: .....	4
2.4.Dashbaord.php: .....	5
2.5.Add post page: .....	6
2.6.Manage page: .....	6
<b>3. Features Implemented</b> .....	7
3.1. Authentication & Security.....	7
3.2.Content Management .....	7
3.3.Categories & Tags .....	7
3.4.Comments .....	7
3.5.Search & AJAX.....	7
3.6.UI and CSS.....	7
<b>4. Technologies Used</b> .....	7
<b>5. Known Issues</b> .....	9
<b>6. Notes</b> .....	9
<b>7. Author</b> .....	9
<b>8. Appendix</b> .....	10

## 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.

The screenshot shows the 'Blogging Platform CMS' dashboard. At the top, there's a dark header bar with the CMS logo, the title 'Blogging Platform CMS', and navigation links for 'Dashboard', '+ Add Post', 'Manage Posts', and 'Logout'. Below the header is a light-colored main area. In the center, there's a search bar with 'Filters' and 'Search by title' options, along with a dropdown for 'All Authors' and an 'Apply' button. Below the search bar is a 'Quick search posts...' input field. The main content area is titled 'Latest Posts' and displays six cards, each representing a blog post. The posts are: 'CSFR' (by Eujina, Feb 02, 2026), 'Authentication' (by Eujina, Feb 02, 2026), 'SEO' (by Eujina, Jan 30, 2026), 'Full Stack Development' (by Eujina, Jan 30, 2026), 'Programming' (by Eujina, Jan 29, 2026), and 'AI and Tech' (by Eujina, Jan 28, 2026). Each card includes a 'Blog' icon and a 'Continue reading >' link. A 'Load More' button is located at the bottom of the post list.

## 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's a dark header bar with the logo 'Blogging Platform CMS' on the left and navigation links 'Dashboard', '+ Add Post', 'Manage Posts', and 'Logout' on the right. The main area is titled 'Dashboard' and contains three cards:

- Add New Post**: A green button labeled 'Add Post'.
- Manage Posts**: An orange button labeled 'Manage'.
- Logout**: A red button labeled 'Logout'.

## 2.5.Add post page:

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

Add New Post

Post Title

Enter 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.

Blogging Platform CMS

Dashboard Add Post Manage Posts Logout

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

← 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
- 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>