

Herald College, Kathmandu

Full Stack Development (5CS045)



## BLOGGING PLATFORM CMS

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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

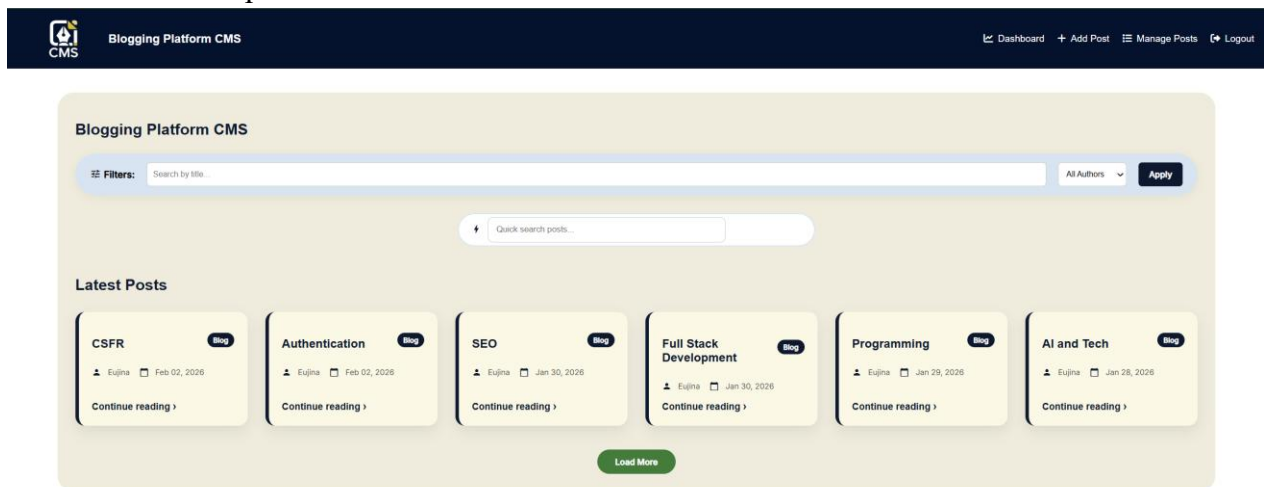
## 1.2.Admin Account II

- 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:

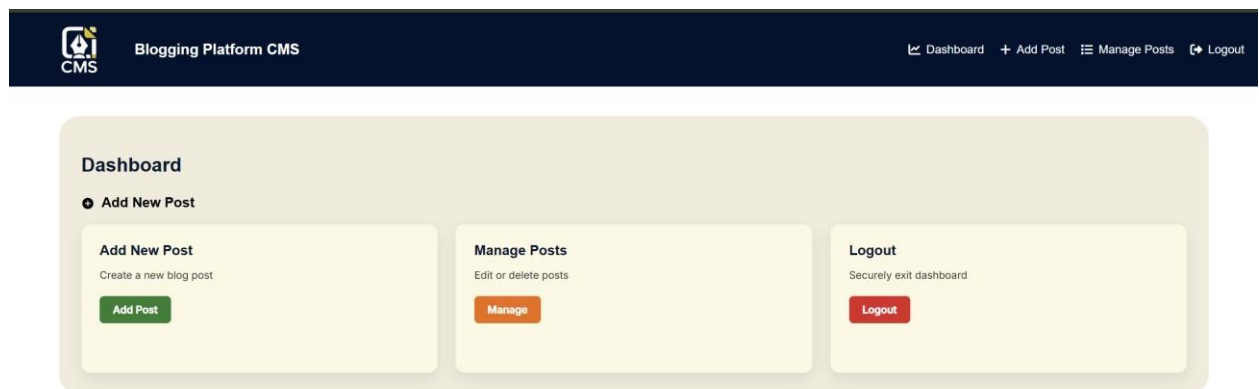


**Admin Login**

Login

## 2.4.Dashbaord.php:

- Access to adding post, managing post and log out



## 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

DashboardAdd PostManage PostsLogout

### 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
- Flash success messages

## 4. Technologies Used

Layer	Technology
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Frontend	HTML5, CSS3, JS
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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>