

BLOGGING AND CONTROL MANAGEMENT SYSTEM

Submitted by:

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PROBLEM DEFINITION AND OBJECTIVES

Problem Statement:

Many bloggers struggle to find a platform with both powerful editing tools and efficient content management.

Objectives:

- Enable bloggers to create, edit, and publish posts easily.
- Provide SEO optimization features for better search rankings.
- Allow admins to moderate content efficiently.

FRONTEND & BACKEND ARCHITECTURE

Technology Stack Overview:

- Frontend: React
- Backend: ASP.NET Core Web API
- Database: SQL Server with Entity Framework Core

COMPONENT BREAKDOWN & API DESIGN

API Design:

- Endpoints for user authentication, blog management, SEO suggestions
- Authentication via JWT

Challenges faced:

- Handling secure authentication.
- Database normalization.
- SEO algorithm integration.

Solutions:

- Used JWT for authentication.
- Optimized queries with indexes.

- Created custom SEO analyzer service.

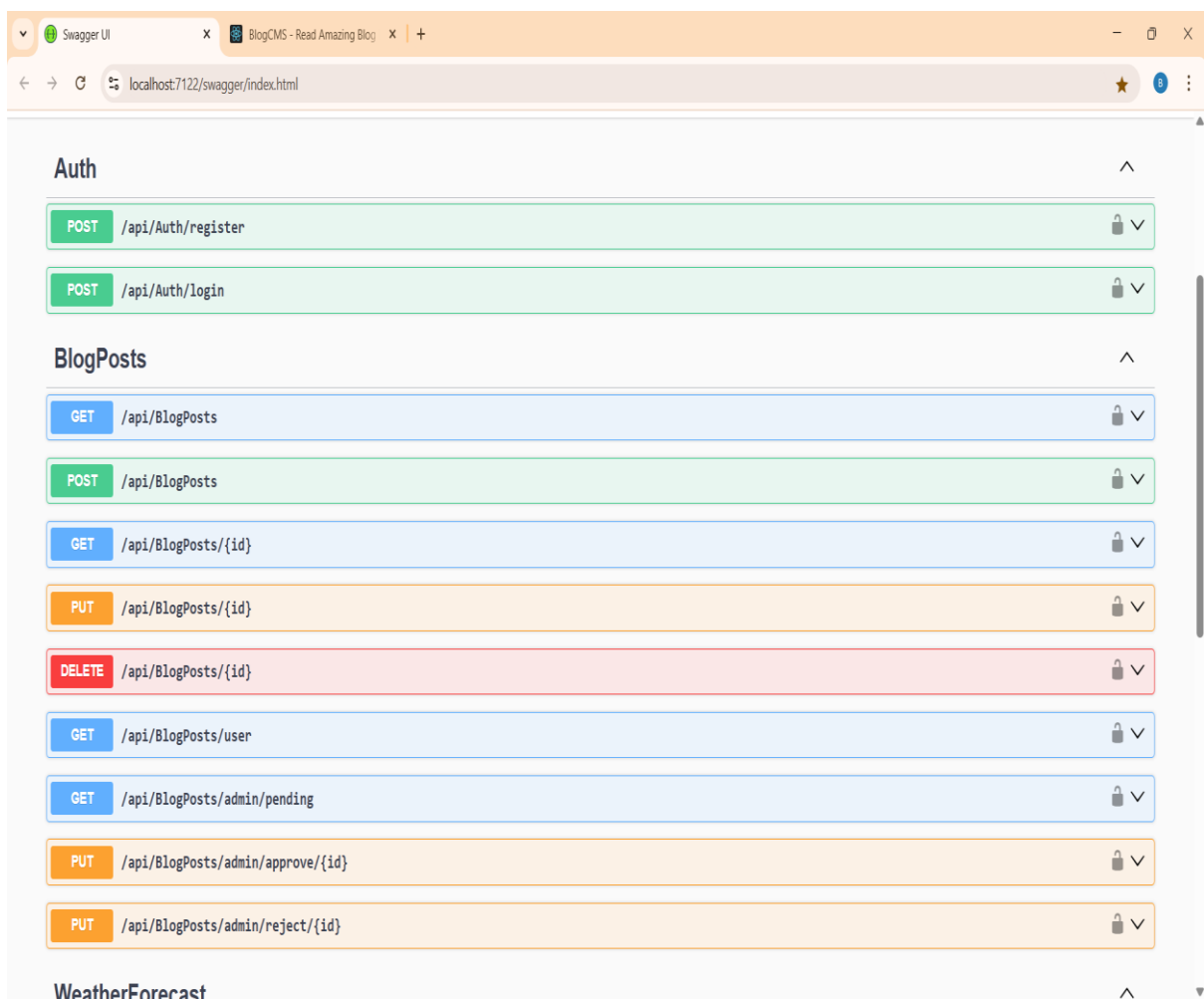
Performance Evaluation:

- Lighthouse performance score (frontend).
- API response times (backend).

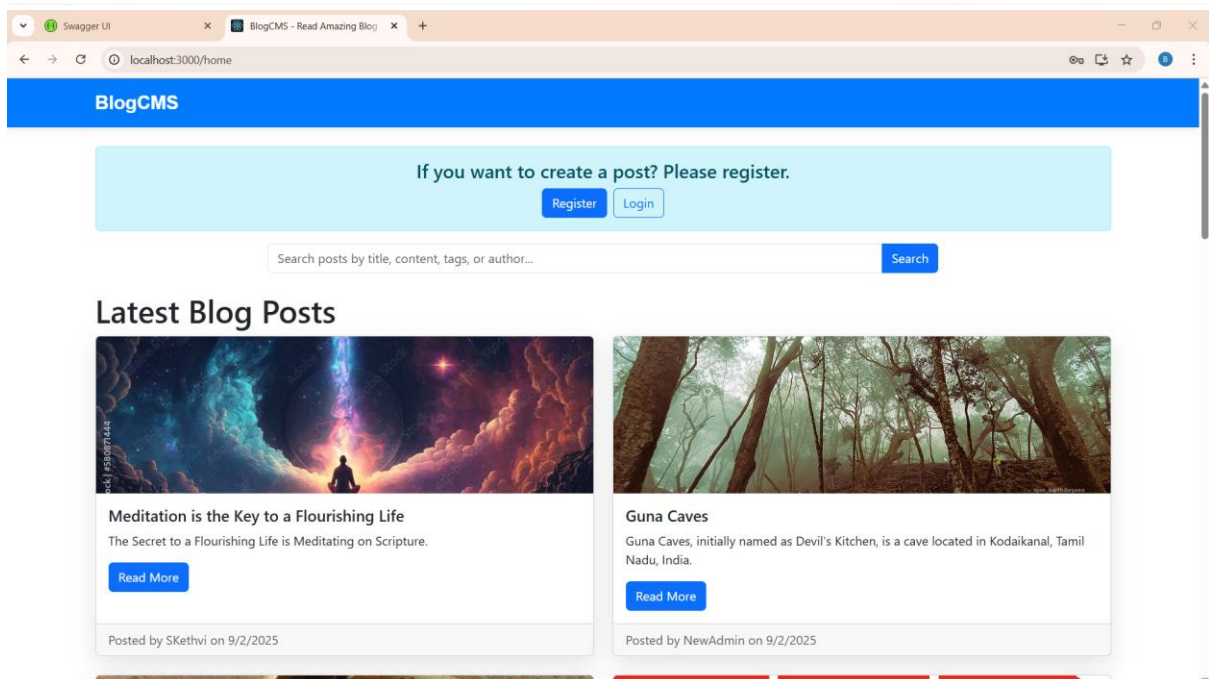
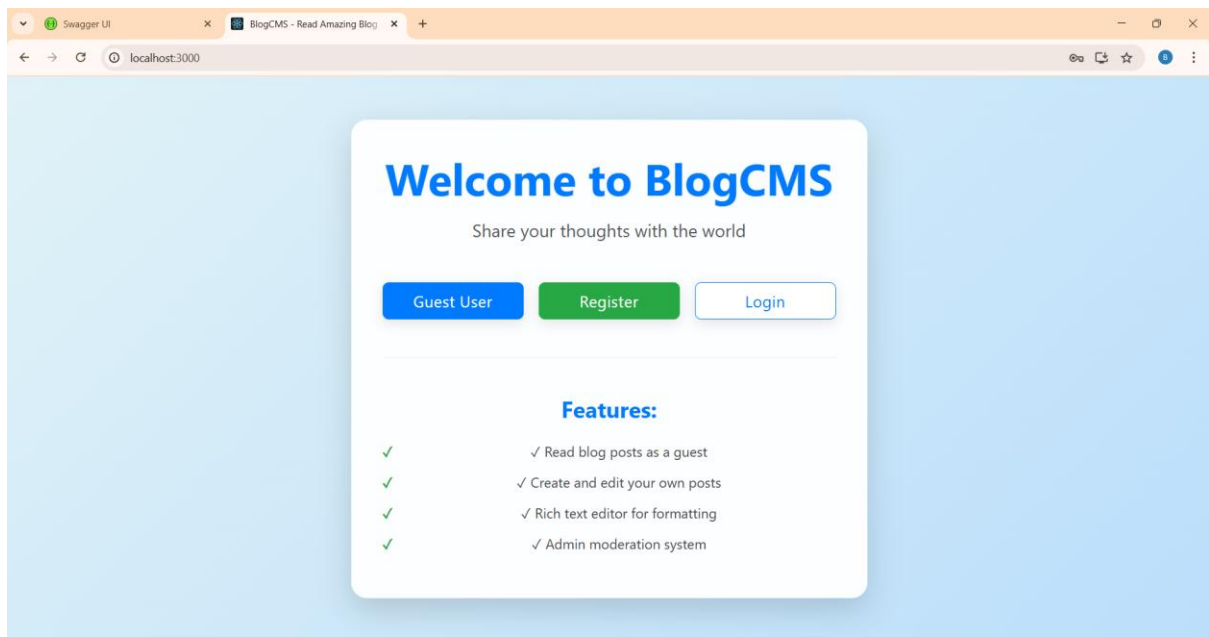
User Roles

1. **Guest Users:** Can browse published blog posts.
2. **Registered Bloggers:** Can create, edit, and manage their blog posts.
3. **Admins:** Can moderate content and manage users.

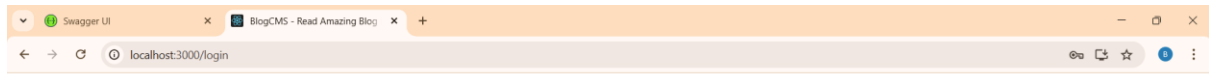
Appendices



Guest User:



Admin:

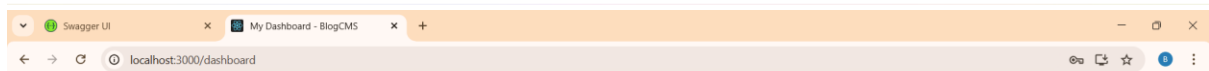


Login to BlogCMS

NewAdmin

Login

Don't have an account? [Register here](#)



BlogCMS Home Dashboard Admin NewAdmin ▾

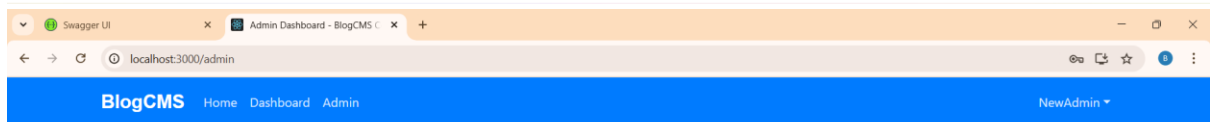
My Blog Posts

Create New Post

Search your posts...

Title	Status	Created	Actions
Guna Caves	Published	9/2/2025	Edit Delete
TED Blog	Published	9/1/2025	Edit Delete





Entrepreneur



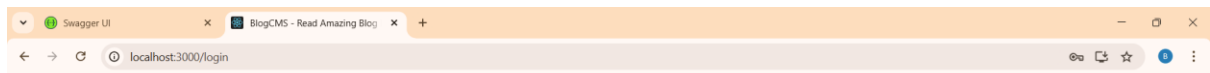
Posted by Datta on 9/2/2025



Posted by Datta on 9/2/2025

Regardless of the firm size, big or small, it can take part in entrepreneurship opportunities. There are four criteria for becoming an entrepreneur. First, there must be opportunities or situations to recombine resources to generate profit. Second, entrepreneurship requires differences between people, such as preferential access to certain individuals or the ability to recognize information about opportunities. Third, taking on a level of risk is a necessity. Fourth, the entrepreneurial process requires the organization of people and resources. An entrepreneur uses their time, energy, and resources to create value for others. They are rewarded for this effort monetarily and therefore both the consumer of the value created and the entrepreneur benefit. The entrepreneur is a factor in and the study of entrepreneurship reaches back to the work of Richard Cantillon and Adam Smith in the late 17th and early 18th centuries. However, entrepreneurship was largely ignored theoretically until the late 19th and early 20th centuries and empirically until a profound resurgence in business and economics since the late 1970s.

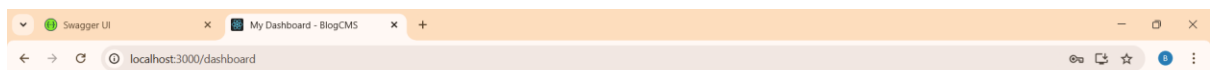
Tags: Entrepreneur, Business, startup



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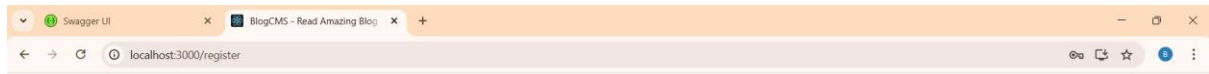


My Blog Posts

[Create New Post](#)

Title	Status	Created	Actions	
Entrepreneur	Published	9/2/2025	Edit	Delete
TIME	Published	9/1/2025	Edit	Delete
Arunachalam	Published	8/27/2025	Edit	Delete
Dhoni	Published	8/27/2025	Edit	Delete

User:



Register for BlogCMS

Username

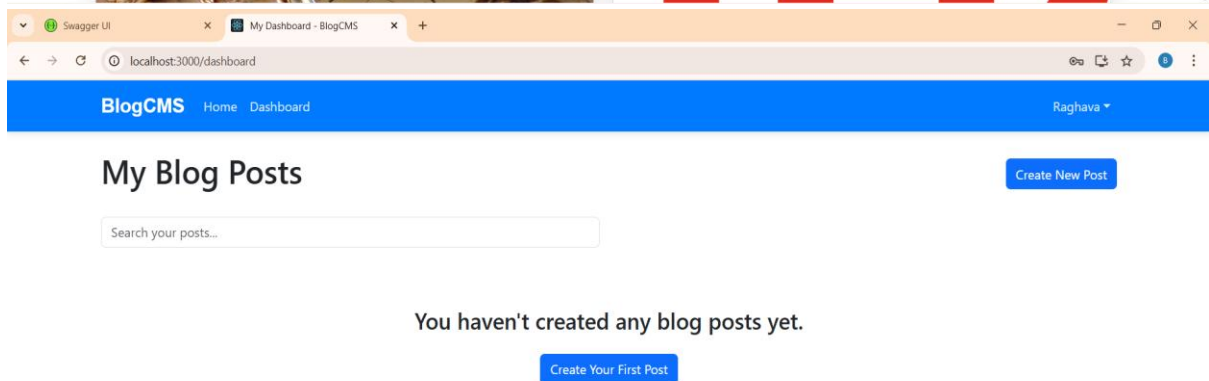
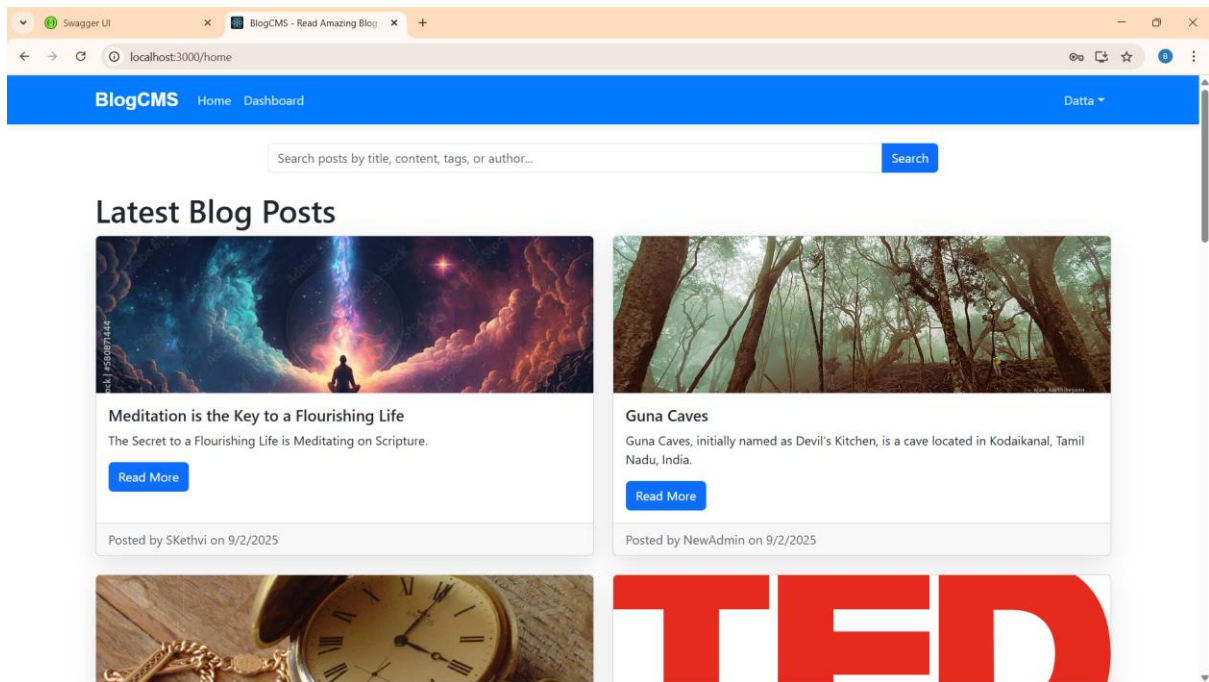
Email

Password

Password must be at least 6 characters long.

[Register](#)

Already have an account? [Login here](#)



Swagger UI

My Dashboard - BlogCMS

localhost:3000/create-post

BlogCMSHomeDashboardDatta

Create Blog Post

Title

Slug

Generate

Excerpt

Content

Featured Image URL

Swagger UI

My Dashboard - BlogCMS

localhost:3000/create-post

BlogCMSHomeDashboardDatta

Featured Image URL

Categories

Technology

Lifestyle

Travel

Food

Hold Ctrl to select multiple categories

Status

Draft

Meta Title

Meta Description

Tags

Comma-separated tags

Create Post

Cancel

biryani is a key dish in Hyderabad [cuisine](#) and it is so famous that the dish is considered synonymous with the city of Hyderabad.

Tags

#food

Create Post

Cancel

Admin giving approval for user's blog :-

Swagger UI

My Dashboard - BlogCMS

localhost:3000/dashboard#

BlogCMSHomeDashboardDatta

My Blog Posts

Create New Post

Search your posts...

Title	Status	Created	Actions
Entrepreneur	Pending	9/2/2025	Edit Delete
TIME	Published	9/1/2025	Edit Delete
Arunachalam	Published	8/27/2025	Edit Delete
Dhoni	Published	8/27/2025	Edit Delete

Search Posts :-

Swagger UI

BlogCMS - Read Amazing Blog


localhost:3000/home

BlogCMSHomeDashboardRaghava

medit

Showing 1 of 15 posts

Latest Blog Posts



Meditation is the Key to a Flourishing Life
The Secret to a Flourishing Life is Meditating on Scripture.

Read More

Posted by SKethvi on 9/2/2025

SUMMARY OF PROJECT COMPLETION:

A **Blogging and Content Management System (CMS)** is a web-based platform designed to create, manage, and publish digital content efficiently. It provides users with an intuitive interface to post blogs, manage articles, optimize content for search engines (SEO), and control user roles without requiring deep technical knowledge.