CODTECH INTERNSHIP TASK-01

BLOG BACKEND SYSTEM

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Title: Blog Backend System

Objective:

Build the backend for a blog platform that allows users to register, authenticate, create blog posts, and add comments.

**Requirements:**

**Authentication**: Sign up, login, and secure sessions/tokens.

**Blog Creation**: Authenticated users can create, update, delete blog posts.

**Commenting System**: Users can comment on blog posts

**Tech Stack:**

**Backend Framework**:

Django (Python)

Express.js (Node.js)

**Database**:

MySQL

PostgreSQL

Program :

# blog\_backend.py

import datetime

# Data structure to hold blog posts

blog\_posts = []

post\_id\_counter = 1

# Function to add a blog post

def add\_post():

global post\_id\_counter

title = input("Enter post title: ")

content = input("Enter post content: ")

author = input("Enter author name: ")

timestamp = datetime.datetime.now().strftime("%Y-%m-%d %H:%M:%S")

post = {

"id": post\_id\_counter,

"title": title,

"content": content,

"author": author,

"timestamp": timestamp

}

blog\_posts.append(post)

print(f"\n Post '{title}' added successfully with ID {post\_id\_counter}.\n")

post\_id\_counter += 1

# Function to view all blog posts

def view\_all\_posts():

if not blog\_posts:

print("\n⚠️ No posts available.\n")

return

print("\n All Blog Posts:")

for post in blog\_posts:

print(f"[{post['id']}] {post['title']} by {post['author']} on {post['timestamp']}")

print()

# Function to view a specific post

def view\_post\_by\_id():

post\_id = int(input("Enter post ID to view: "))

for post in blog\_posts:

if post['id'] == post\_id:

print(f"\n Post ID: {post['id']}")

print(f"Title: {post['title']}")

print(f"Author: {post['author']}")

print(f"Date: {post['timestamp']}")

print(f"Content:\n{post['content']}\n")

return

print("\n Post not found.\n")

# Function to delete a post

def delete\_post():

post\_id = int(input("Enter post ID to delete: "))

for post in blog\_posts:

if post['id'] == post\_id:

blog\_posts.remove(post)

print(f"\n🗑️ Post ID {post\_id} deleted successfully.\n")

return

print("\n Post not found.\n")

# Main menu loop

def main():

while True:

print("====== BLOG BACKEND SYSTEM ======")

print("1. Add Post")

print("2. View All Posts")

print("3. View Post by ID")

print("4. Delete Post")

print("5. Exit")

choice = input("Enter your choice (1-5): ")

if choice == '1':

add\_post()

elif choice == '2':

view\_all\_posts()

elif choice == '3':

view\_post\_by\_id()

elif choice == '4':

delete\_post()

elif choice == '5':

print("\n Exiting Blog Backend System. Goodbye!\n")

break

else:

print("\n Invalid choice. Please try again.\n")

if \_\_name\_\_ == "\_\_main\_\_":

main()

Sample Output :

====== BLOG BACKEND SYSTEM ======

1. Add Post

2. View All Posts

3. View Post by ID

4. Delete Post

5. Exit

Enter your choice (1-5): 1

Enter post title: My First Blog

Enter post content: This is the content of my first blog.

Enter author name: Alice

Post 'My First Blog' added successfully with ID 1.

====== BLOG BACKEND SYSTEM ======

1. Add Post

2. View All Posts

3. View Post by ID

4. Delete Post

5. Exit

Enter your choice (1-5): 2

All Blog Posts:

[1] My First Blog by Alice on 2025-08-25 10:42:17

====== BLOG BACKEND SYSTEM ======

Enter your choice (1-5): 3

Enter post ID to view: 1

Post ID: 1

Title: My First Blog

Author: Alice

Date: 2025-08-25 10:42:17

Content:

This is the content of my first blog.

====== BLOG BACKEND SYSTEM ======

Enter your choice (1-5): 5