MYSORE UNIVERSITY SCHOOL OF ENGINEERING
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(Approved by AICTE, New Delhi)

UNIVERSITY OF MYSORE

An Assignment (21CD71, Full Stack Development) Report

On

"Multi-Page Blogging System"

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Multi-Page Blogging System

- **Q5. Create a Multi-Page Blogging System with the following features:**

- Users can write blog posts containing a title, author, content, and published date.
- Use Django's generic CreateView, ListView, and DetailView to manage blogs.
- Implement multiple URL configurations:
- /blogs/ → List all blog posts
- /blogs// → Display a single blog post
- /blogs/new/ → Allow users to create a new blog post
- Use reverse_lazy() to redirect users to the blog list after successfully posting an article.

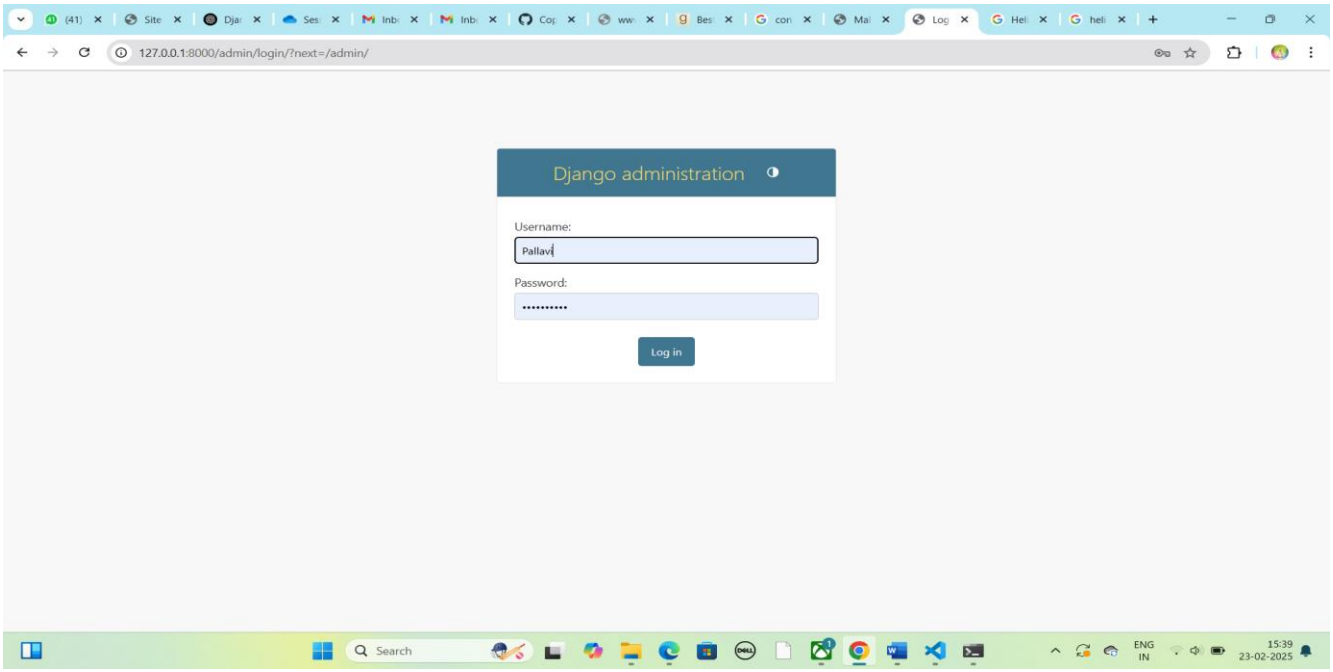
1. Introduction:

A **Multi-Page Blogging System** is a web application that enables users to create, manage, and read blog posts across multiple pages. Unlike single-page applications, this system follows a traditional web architecture where different pages handle different functionalities such as listing blog posts, viewing a single post, and creating a new post.

This project is built using **Django**, a high-level Python web framework known for its efficiency, scalability, and security. Django's **class-based generic views** such as `ListView`, `DetailView`, and `CreateView` streamline development by reducing boilerplate code while maintaining clean and readable logic.

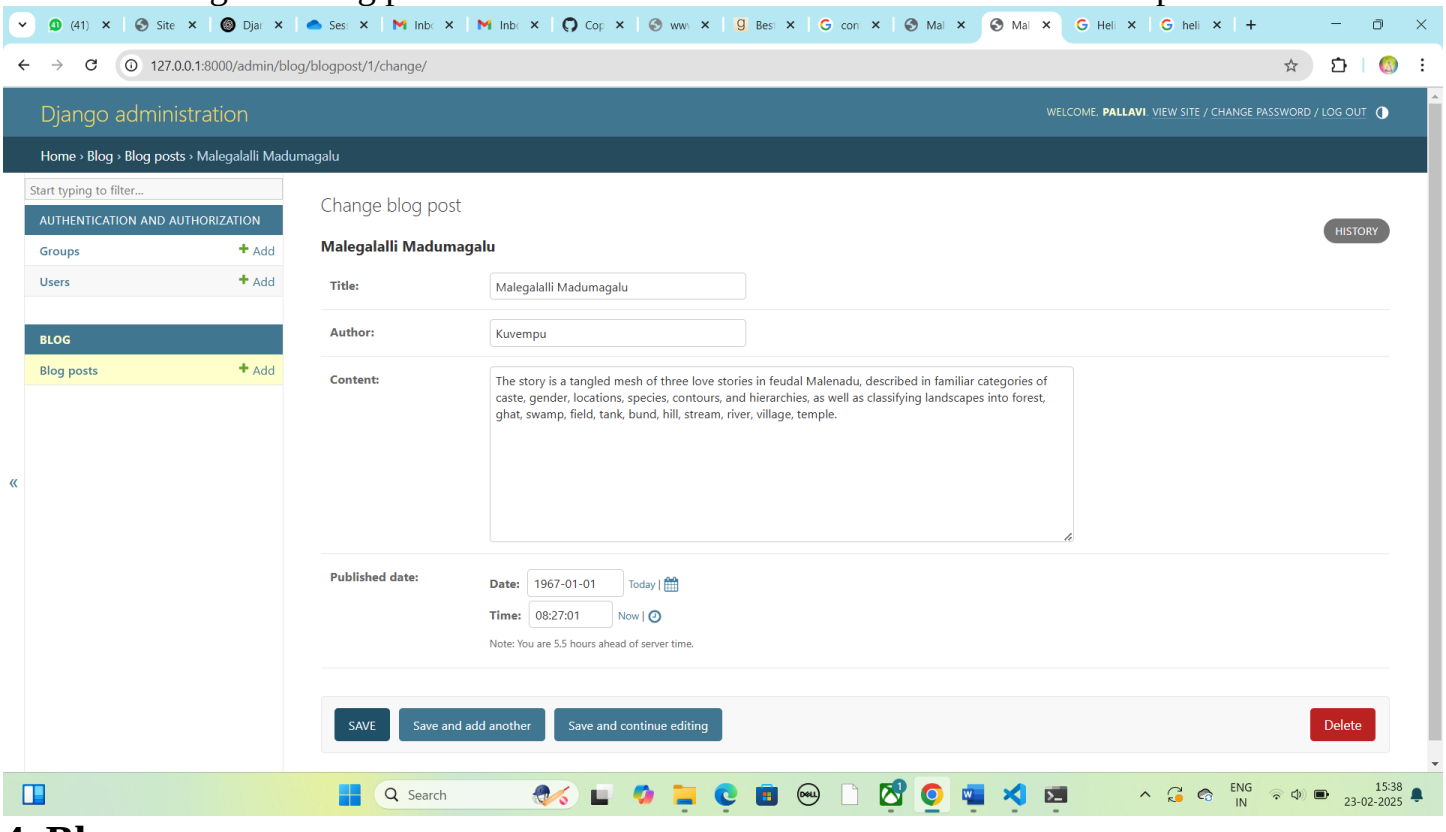
2. Key Features of the Multi-Page Blogging System

- Login Page

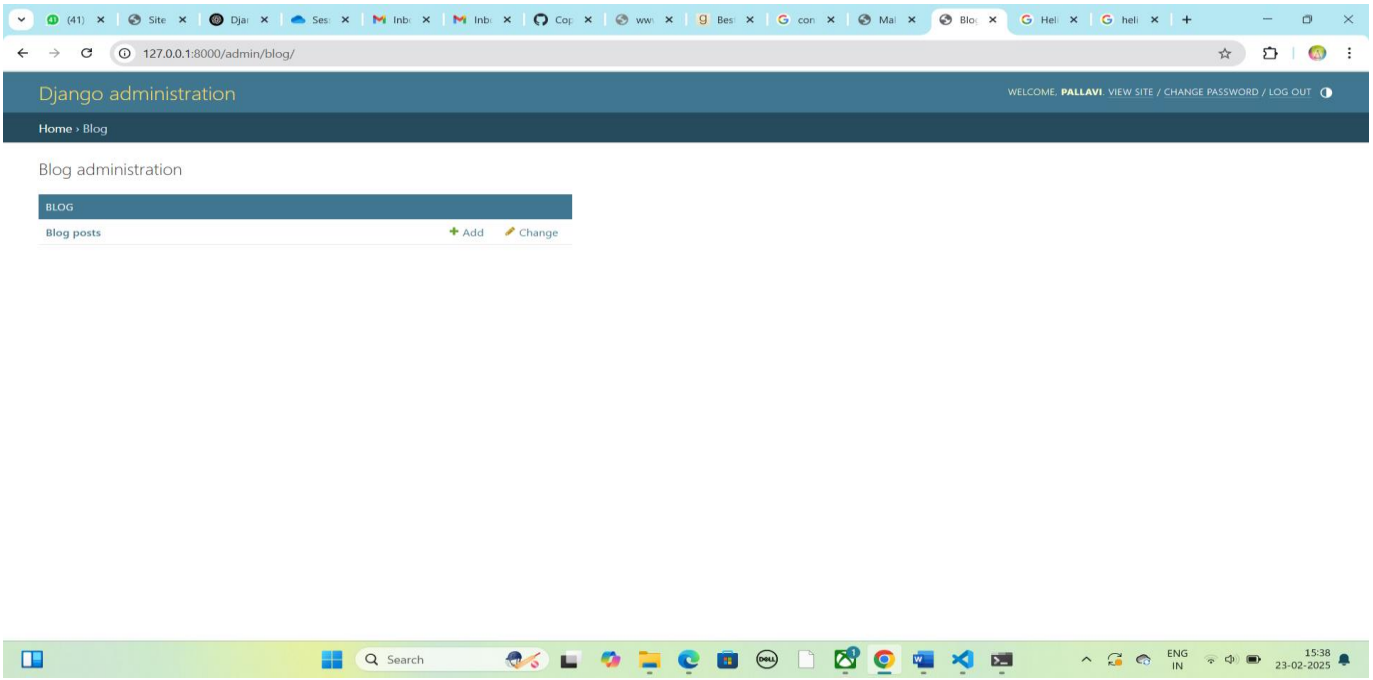


3 . Home Page (List of Blog Posts)

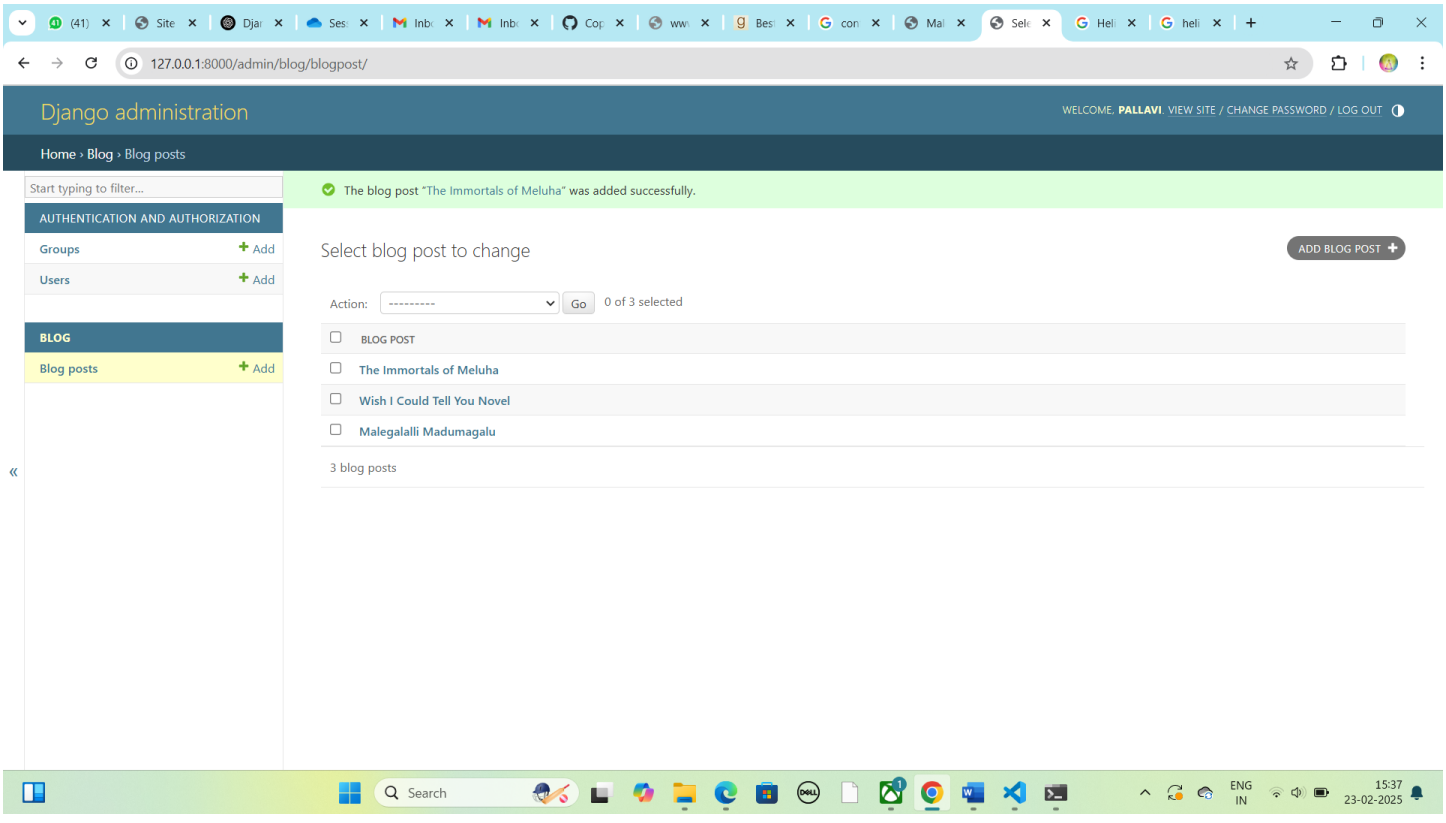
- Displays all blog posts in a structured format.
- Each post includes its **title, author, content snippet, and published date**.
- Clicking on a blog post title redirects users to the detailed view of that post.

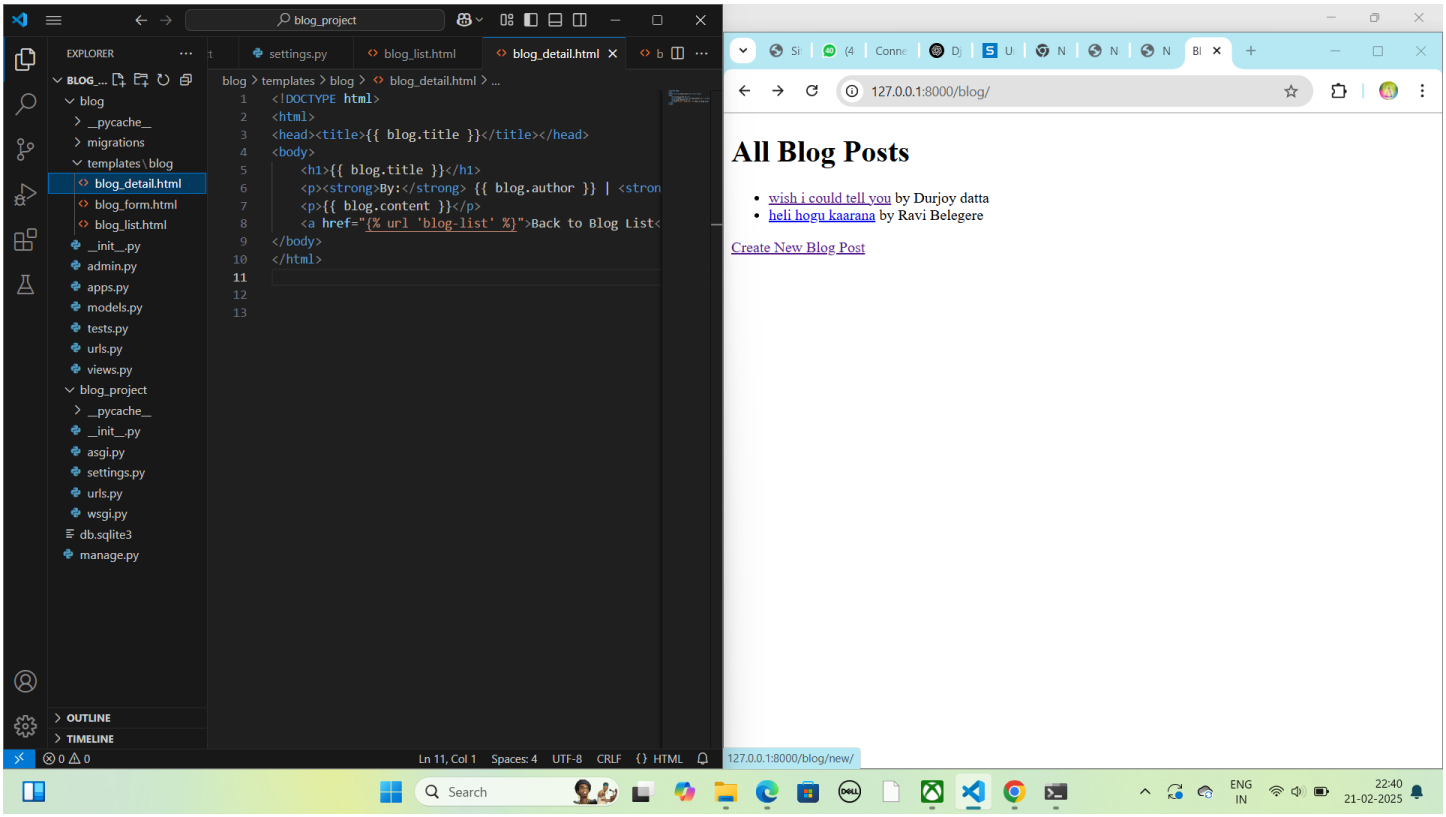


4. Blog

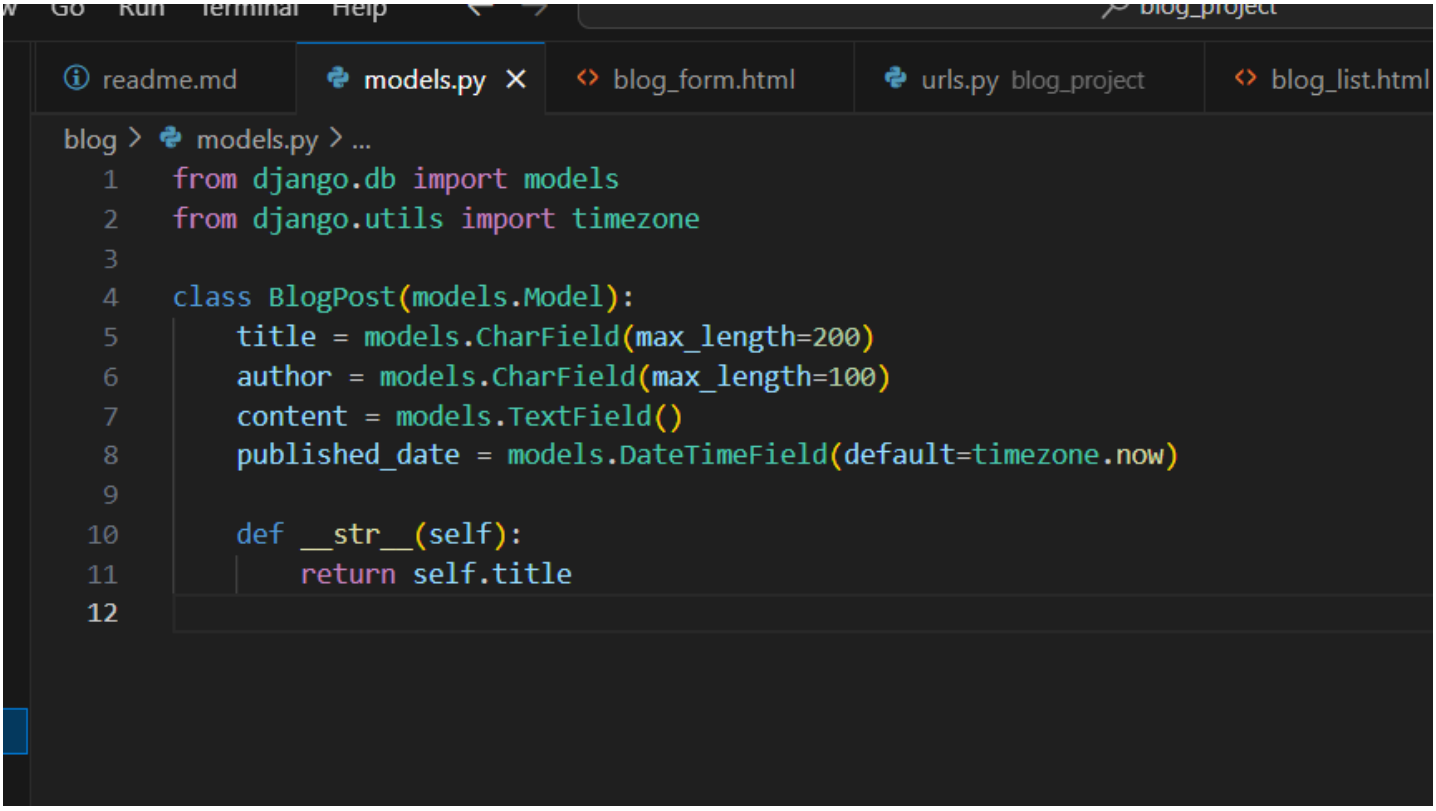

127.0.0.1:8000/admin/blog/
Django administration
WELCOME, PALLAVI. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Blog
Blog administration
BLOG
Blog posts
+ Add
Change

5. Blog Posts


127.0.0.1:8000/admin/blog/blogpost/
Django administration
WELCOME, PALLAVI. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Blog › Blog posts
Start typing to filter...
AUTHENTICATION AND AUTHORIZATION
Groups + Add
Users + Add
BLOG
Blog posts + Add
The blog post "The Immortals of Meluha" was added successfully.
Select blog post to change
ADD BLOG POST +
Action: --------- Go 0 of 3 selected
BLOG POST
The Immortals of Meluha
Wish I Could Tell You Novel
Malegalalli Madumagalu
3 blog posts



Implementation Details: 1. Models.py



2. Views.py

views.py | readme.md | models.py | blog_form.html | urls.py blog_project | blog_lis

blog > views.py > BlogCreateView

```python
class BlogListView(ListView):
    model = BlogPost
    template_name = 'blog_list.html'
    context_object_name = 'blogs'

class BlogDetailView(DetailView):
    model = BlogPost
    template_name = 'blog_detail.html'
    # Django will automatically use 'object' as the context variable.

class BlogCreateView(CreateView):
    model = BlogPost
    template_name = 'blog_create.html'
    fields = ['title', 'author', 'content','published_date']
    # After successfully creating a post, redirect to the blog list.
    success_url = reverse_lazy('blog-list')

```

3. Admin.py

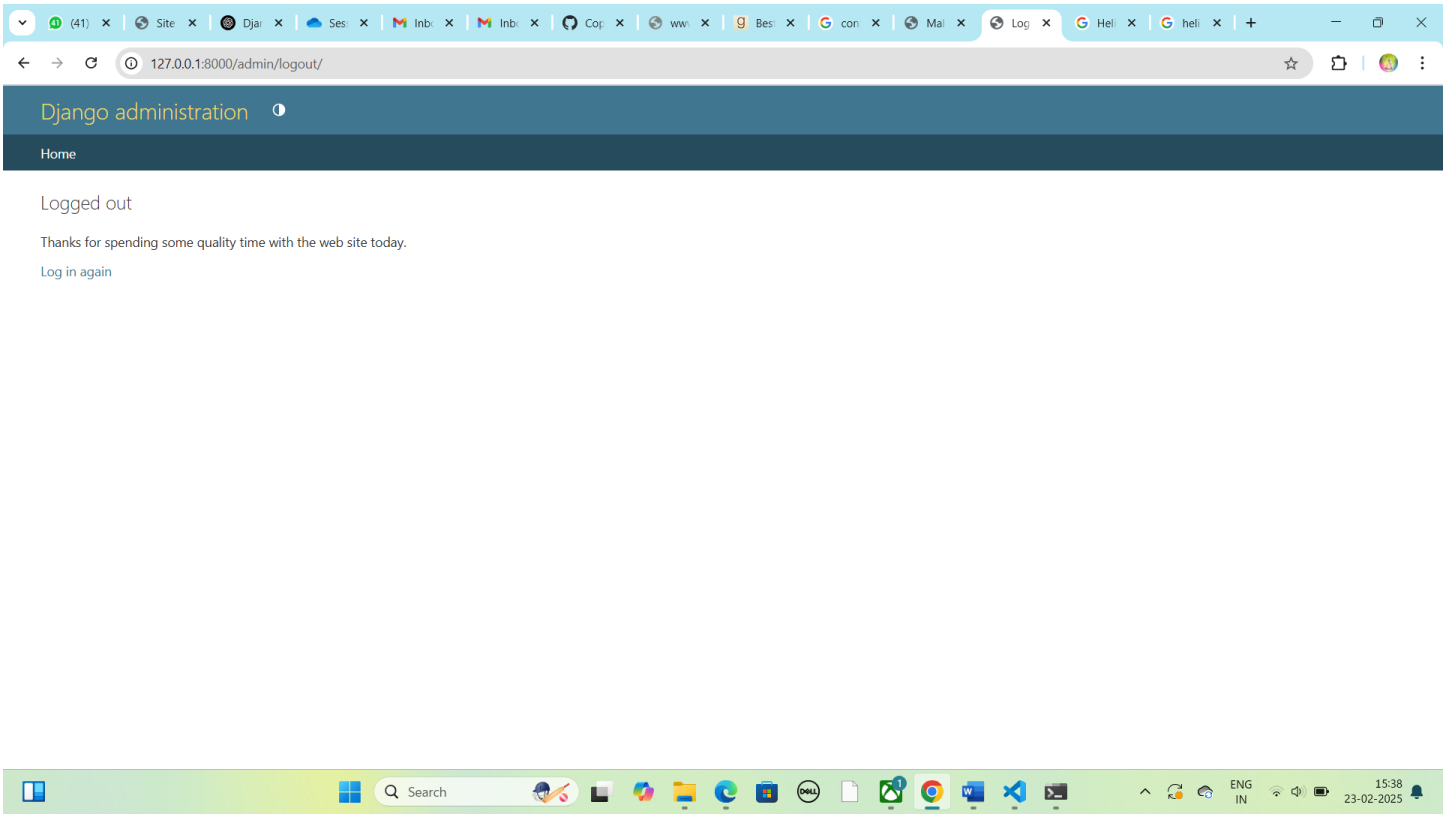
readme.md | models.py | blog_form.html | urls.py blog_project | blog_list.htr

blog > admin.py

```python
from blog.models import BlogPost  # or Blog
from django.contrib import admin

admin.site.register(BlogPost)  # or admin.site.register(Blog)

```



Output Link : http://127.0.0.1:8000/admin/

Conclusion

The **Multi-Page Blogging System** is an ideal starting point for anyone looking to build a blog or content-based website using Django. Its modular design allows developers to expand the application with additional features such as user authentication, image uploads, or comments.

Github Repo Link

https://github.com/pallavi777-ai/Multi_Page-Blogging-System