Django Blog Project Report

1. Introduction

This project is a simple blogging platform built with Django. It allows users to register, log in, and log out, create and manage blog posts. The project also includes an admin panel for managing blog content.

2. Minimum Requirements Implemented

User Authentication

Users can register an account, log in, and log out securely.

Django's built-in authentication system is used.

Post Management

Users can create, edit, delete, and view blog posts.

Posts are stored in the database and displayed dynamically.

Database Integration

SQLite is used as the database backend.

Models for users and blog posts are properly structured and managed via Django ORM.

Templates & Styling

Bootstrap is used for styling the front-end pages.

Responsive design implemented for better user experience.

Admin Panel

Django's admin interface is configured to allow admins to manage blog posts and users.

3. Customization & Enhancements

Beyond the minimum requirements, the following additional features have been implemented:

A. Comment Functionality

Users can add comments on blog posts.

Users can edit and delete their own comments.

Comments are displayed under each blog post.

B. User Profiles

Each user has a profile page displaying all their posts.

Users can update or delete their own posts from their profile page.

C. All Bloggers Page

A separate page in the navigation bar lists all bloggers on the website.

D. Search Bar

A search bar to filter through posts by title

E. Log out

Logged in Users can log out the website once they are done

4.Screenshots

Login Page

Register page

Home page

Blog Detail page
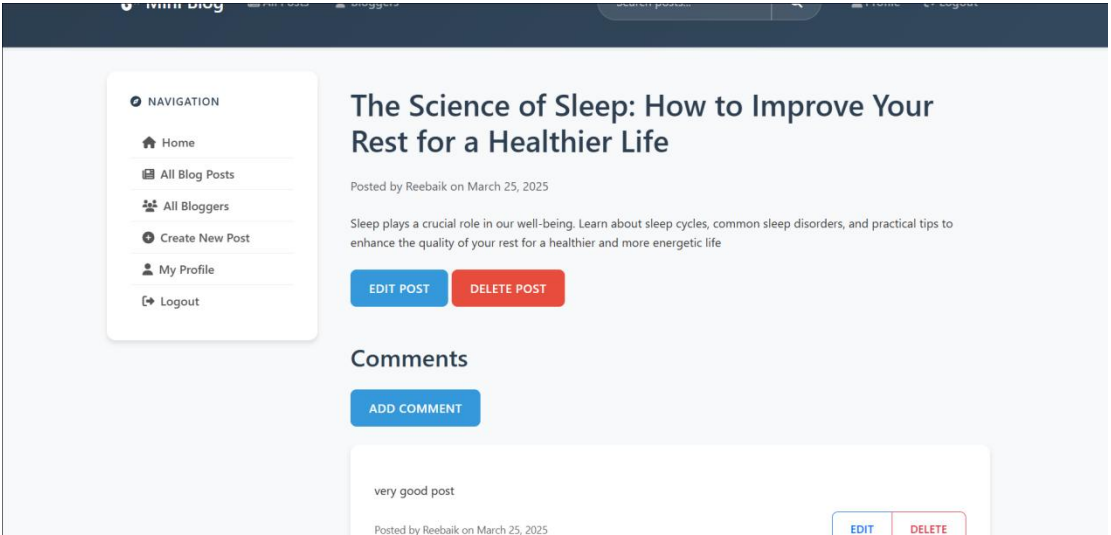
Blog Create page

Blog edit page

Blog delete page
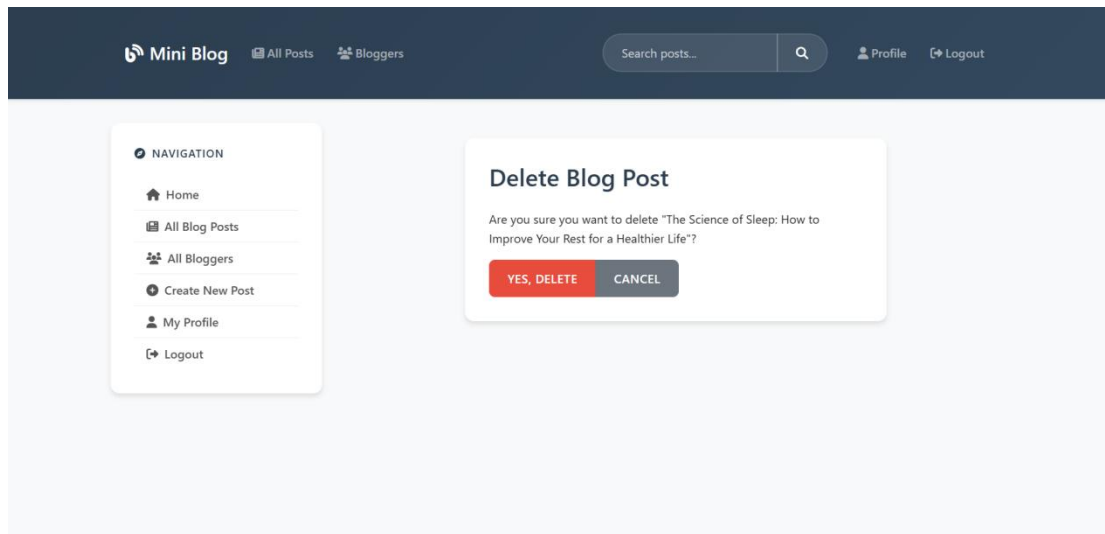
Comment add page
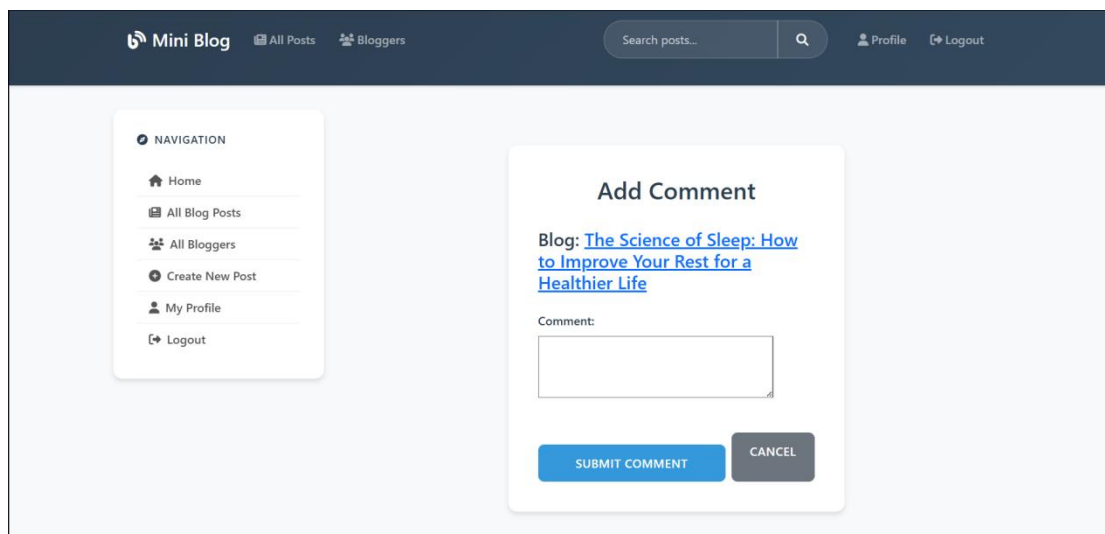
Comment edit page
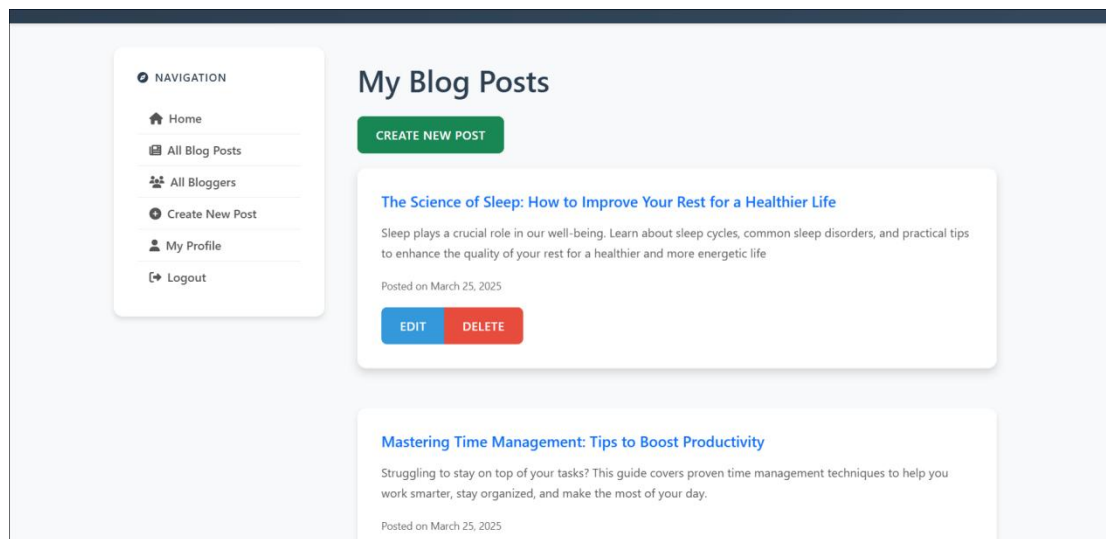

Comment Delete page

Bloggers page
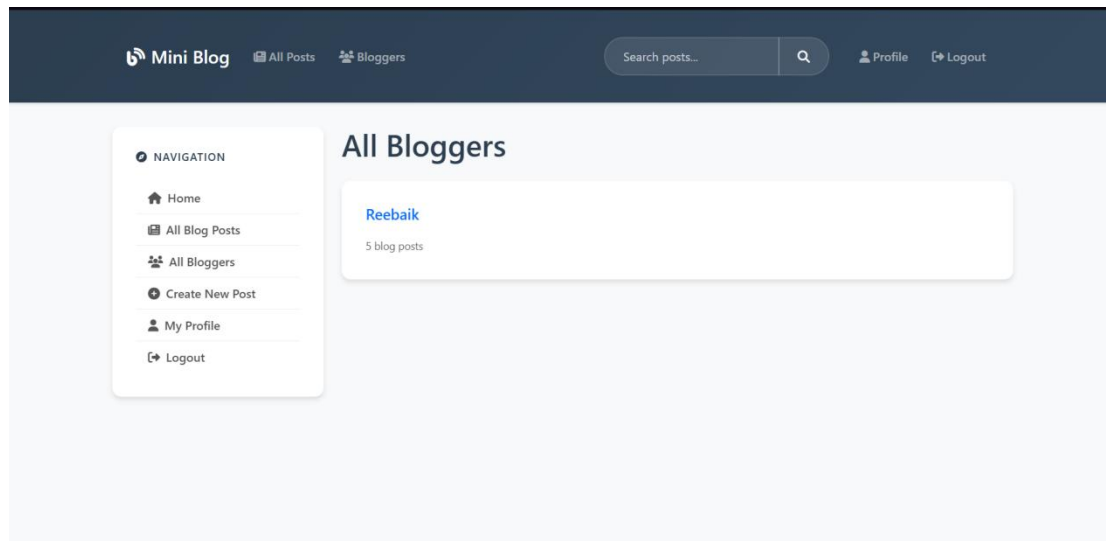
User Profile page

5. Challenges & Learnings

Use of AI based Code Editors

Ensuring users can only edit or delete their own comments required fine-tuning permissions and logic.Use of new AI based code editing tools for creating , debugging and Editing the website based on specifications

Implementing Comment Editing & Deletion

Ensuring users can only edit or delete their own comments required fine-tuning permissions and logic.

User Profile Management

Fetching and displaying only the posts related to a specific user.

Displaying All Bloggers

Retrieving a distinct list of all bloggers

Learnings:

Gained a deeper understanding of how to use AI tools to debug and develop a django based webiste

Enhanced knowledge of Bootstrap for responsive UI design.

Learned how to implement navigation and dynamic user interactions in Django with the help of Urls,

6. Conclusion

This project successfully implements a blogging platform with user authentication, post management, and additional custom features like comments, user profiles, and a bloggers list. The challenges faced during development helped enhance my skills in Django development, database handling, and front-end integration.