

HOST LINK:

<https://pranavb13.pythonanywhere.com/blog/>

GITHUB LINK:

<https://github.com/pranav007123/mdnblog>

Introduction:

This blog platform is designed to enhance user interaction, provide seamless content management, and ensure a smooth user experience. The system includes user authentication, blog management, commenting, and search functionality. Various solutions have been implemented to improve efficiency, security, and responsiveness.

Features:**1. User Profiles**

- Users have dedicated profiles with a bio field.

2. Blog Management

- Users can create, edit, and delete blog posts.
- Blog posts contain title, author, description, and post date.
- Posts are ordered by the latest date.

3. Comment System

- Users can add comments to blog posts.
- Comments are linked to blogs through a foreign key relationship.

4. User Authentication

- Registration & Login system using Django's authentication.
- Users must be logged in to post comments or blogs.

5. Search Functionality

- Users can search blogs using keywords.
- Implemented using Django's Q object for flexible queries. By implementing these features, the blog platform ensures:
 - Efficient content management
 - Secure authentication system
 - Smooth user experience
 - Real-time interactivity

Challenges & Solutions:

1. User Authentication & Security

- **Challenge:** Prevent unauthorized access to user accounts.
- **Solution:**
 - Implement Django's built-in authentication system.
 - Use password hashing and session management for security.
- **Result:** Secure user login and registration system.

2. Blog Content Management

- **Challenge:** Ensuring only authors can edit or delete their blogs.
- **Solution:**
 - Use Django's permission system and `UserPassesTestMixin`.
 - Restrict editing access to blog owners.
- **Result:** Secure and controlled blog management.

3. Comment Moderation & Permissions

- **Challenge:** Prevent spam and unauthorized comment edits.
- **Solution:**
 - Allow only logged-in users to comment.
 - Restrict editing/deletion to comment authors.
- **Result:** A well-moderated comment system.

4. Search Functionality Optimization

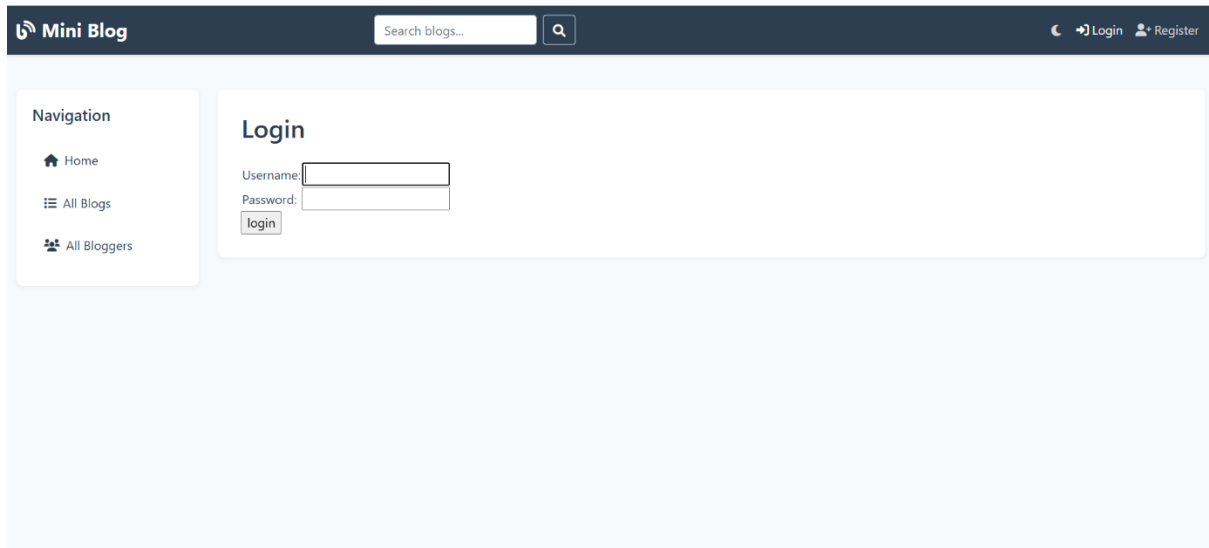
- **Challenge:** Ensuring efficient and accurate search results.
- **Solution:**
 - Use Django's `Q` object to allow flexible query filtering.
- **Result:** Faster and more accurate blog search experience.

By implementing these features and solutions, the blog platform ensures:

- **Efficient content management**
- **Accurate content analysis**
- **Smooth user experience**
- **Secure permission system**
- **Real-time interactivity**

SCREENSHOTS

1.LOGIN PAGE



The screenshot shows the login page of a web application titled "Mini Blog". The header is dark blue with the logo on the left, a search bar in the center, and "Login" and "Register" links on the right. A left sidebar contains navigation links: "Home", "All Blogs", and "All Bloggers". The main content area is titled "Login" and contains two input fields for "Username" and "Password", followed by a "login" button.

Mini Blog

Search blogs...

Login Register

Navigation

- Home
- All Blogs
- All Bloggers

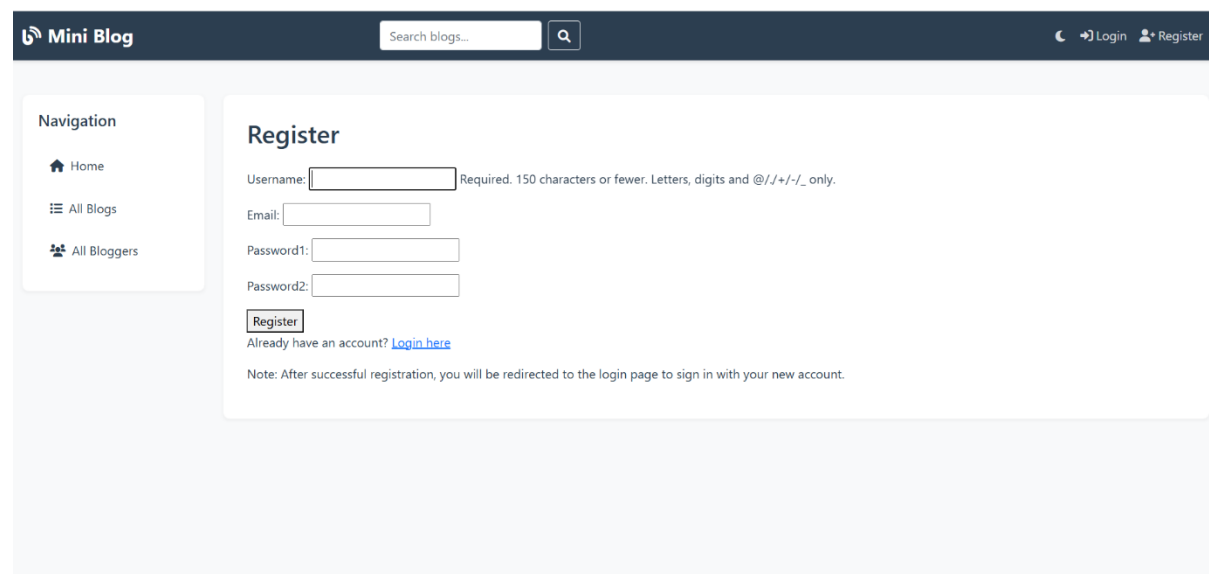
Login

Username:

Password:

login

2.REGISTER PAGE



The screenshot shows the register page of the "Mini Blog" web application. The layout is consistent with the login page, featuring a dark blue header, a left sidebar with navigation links, and a main content area titled "Register". The registration form includes input fields for "Username", "Email", "Password1", and "Password2". A "Register" button is at the bottom of the form. Below the button, there is a link for users who already have an account and a note about redirection after successful registration.

Mini Blog

Search blogs...

Login Register

Navigation

- Home
- All Blogs
- All Bloggers

Register

Username: Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Email:

Password1:

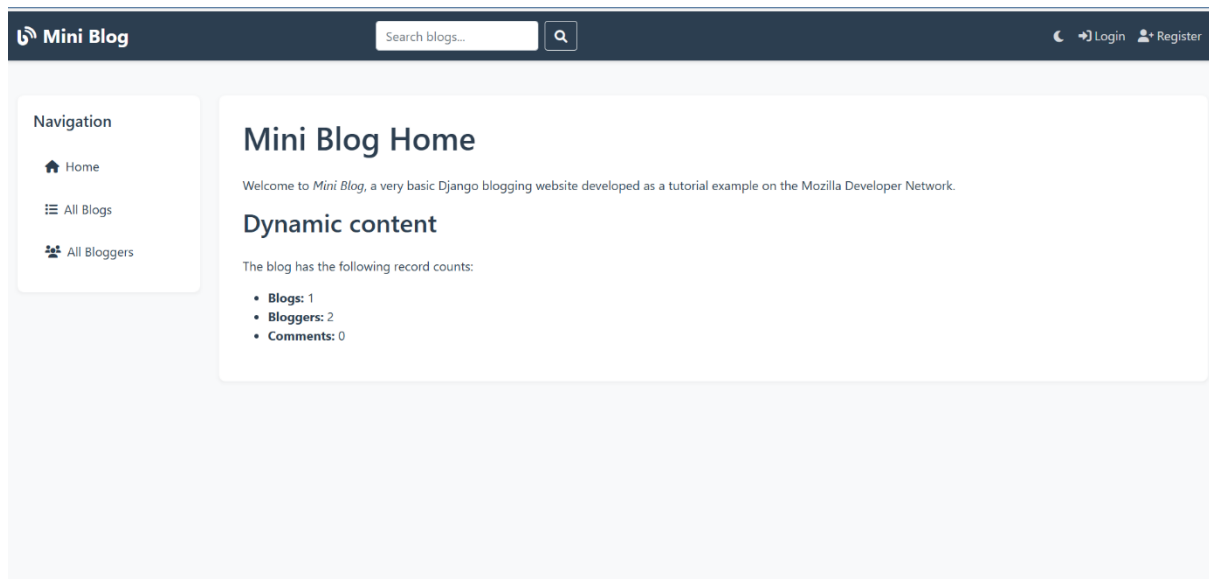
Password2:

Register

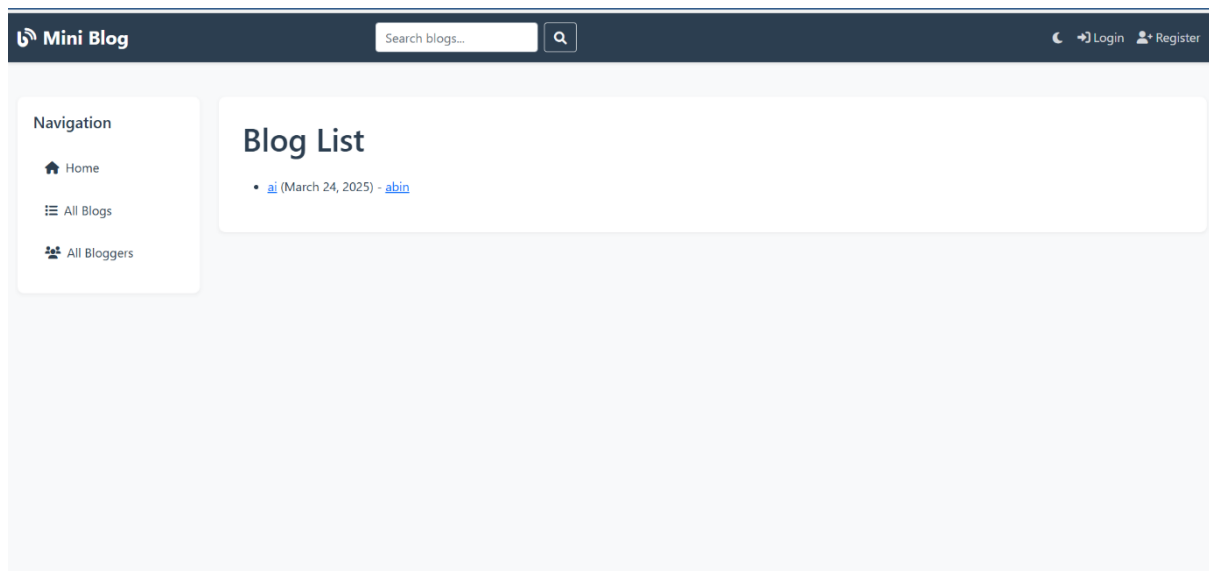
Already have an account? [Login here](#)

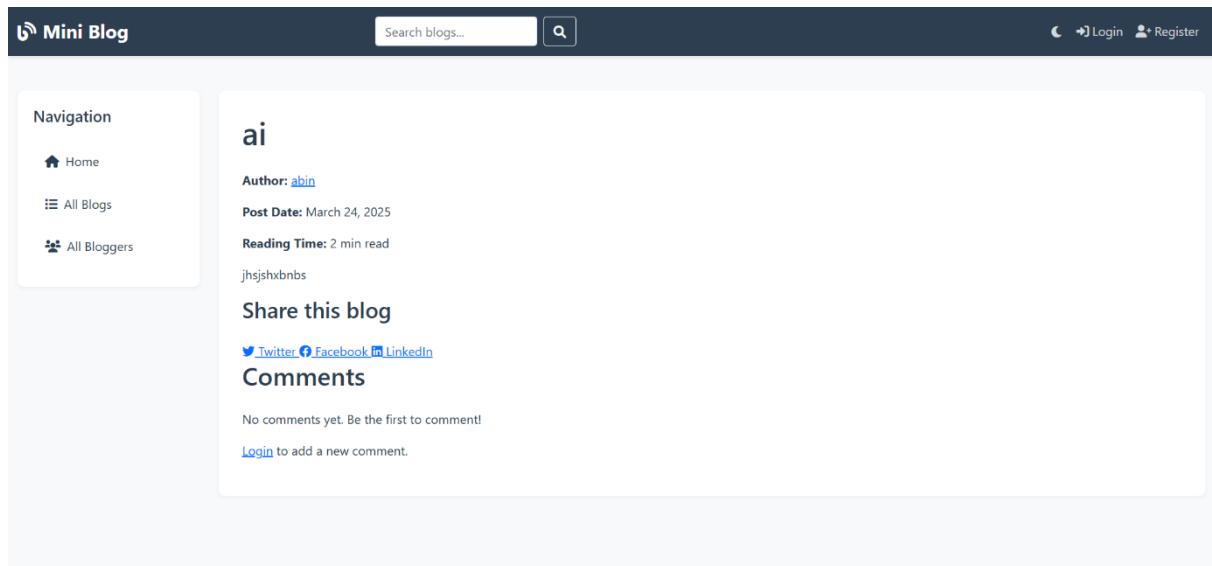
Note: After successful registration, you will be redirected to the login page to sign in with your new account.

3.HOME PAGE



4.BLOG POST PAGE WITH FEATURES





5.BLOGGERS PROFILE PAGE

