

GITHUB LINK:

<https://github.com/iamsalvin/Blog>

Introduction:

This Blog platform is designed to provide a modern, interactive blogging experience with a focus on user engagement and content accessibility. It features a glassmorphism UI design, dark/light mode toggle, PDF download functionality, and audio narration capabilities. The platform ensures efficient content management, seamless user interaction, and a responsive design that works across devices.

Features:

1. User Authentication

- User registration and login
- Profile management with bio and profile picture
- Secure password handling

2. Content Management

- Create, edit, and delete blog posts
- Rich text content editing
- Featured images for posts
- Category system for post organization

3. Interactive Features

- Like functionality for posts
- Comment system with reply capabilities
- Dark/light mode toggle with preference saving

4. Content Accessibility

- PDF download for blog posts
- Audio narration using Google Text-to-Speech (gTTS)
- Responsive design for mobile devices

5. UI/UX Enhancements

- Glassmorphism design for navbar and cards
- Modern, clean interface
- Smooth transitions and animations

Challenges & Solutions:

1. Category Selection

- Challenge: Difficult to select multiple categories with standard dropdown
- Solution:
 - Implemented `CheckboxSelectMultiple` widget
 - Added custom CSS styling for better visibility
 - Ensured compatibility with dark/light mode
- Result: Intuitive and user-friendly category selection

2. Dark/Light Mode Implementation

- Challenge: Maintaining consistent styling across themes
- Solution:
 - Used CSS variables for theme colors
 - Implemented JavaScript theme toggle
 - Added local storage for theme preference
- Result: Seamless theme switching with persistent user preference

3. PDF Generation

- Challenge: Generating PDFs from HTML content
- Solution:
 - Integrated `xhtml2pdf` library
 - Created custom PDF templates
 - Added error handling for PDF generation
- Result: Reliable PDF download functionality

4. Audio Narration

- Challenge: Generating and serving audio files
- Solution:
 - Used `gTTS` for text-to-speech conversion
 - Implemented background processing
 - Added audio file management
- Result: Smooth audio narration experience

5. Responsive Design

- Challenge: Maintaining UI consistency across devices

- **Solution:**
 - Used Bootstrap grid system
 - Implemented mobile-first design
 - Added custom media queries
- **Result:** Consistent user experience on all screen sizes

Technical Stack:

- **Backend:** Django
- **Frontend:** HTML, CSS, JavaScript
- **Database:** SQLite (development), PostgreSQL (production)
- **Libraries:**
 - Bootstrap 5 for UI components
 - Font Awesome for icons
 - xhtml2pdf for PDF generation
 - gTTS for audio narration
 - WhiteNoise for static file serving

Deployment:

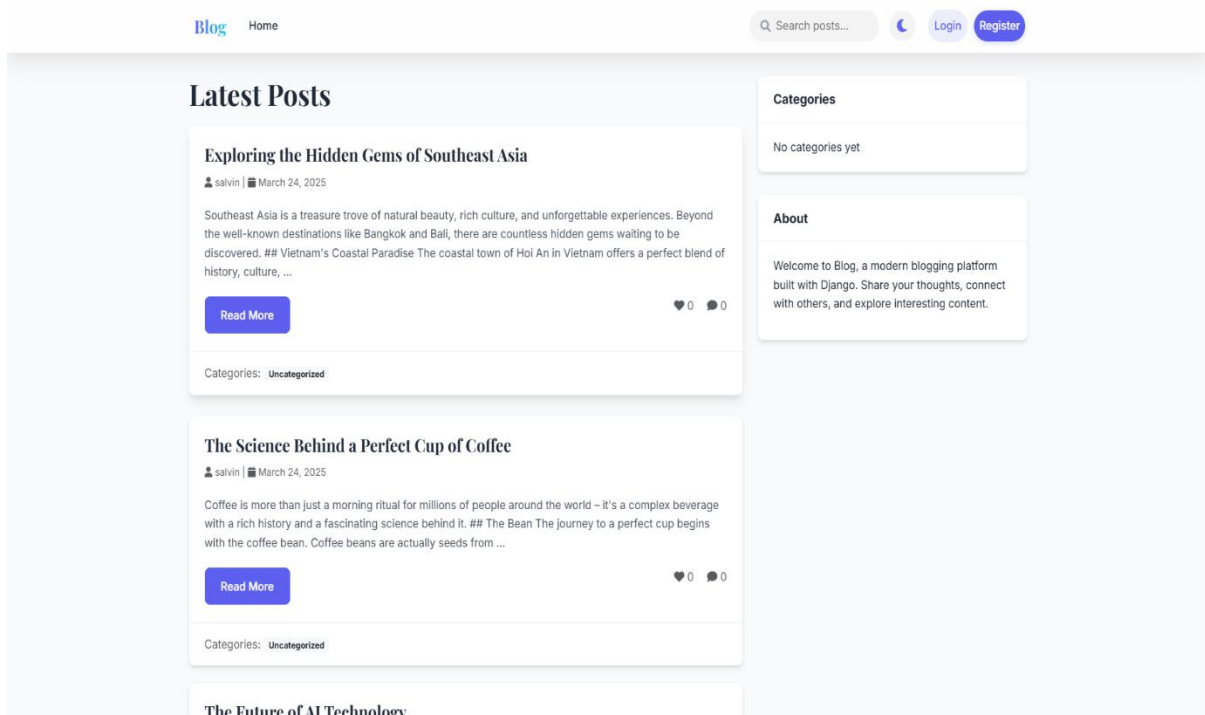
- **Platform:** Render
- **Configuration:**
 - Gunicorn for production server
 - PostgreSQL database
 - Environment variables for sensitive data
 - Automated build and deployment process

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

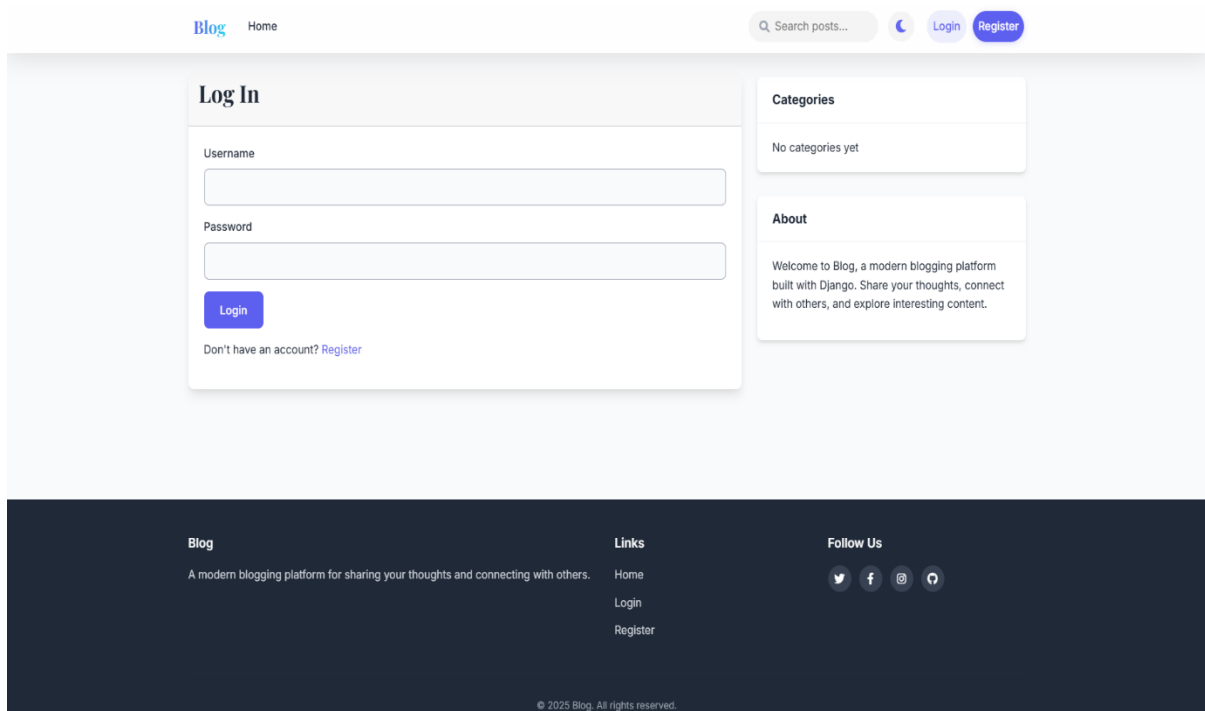
- Efficient content management
- Enhanced user engagement
- Improved content accessibility
- Consistent user experience
- Modern, responsive design

SCREENSHOTS

BLOG PAGE



LOG IN PAGE



REGISTER PAGE

BlogHome

Search posts...🌙LoginRegister

Register

Username

Email

First Name

Last Name

Password

Your password can't be too similar to your other personal information. Your password must contain at least 8 characters. Your password can't be a commonly used password. Your password can't be entirely numeric.

Confirm Password

Enter the same password as before, for verification.

Profile Picture

Choose File

No file chosen

Upload a profile picture (optional)

Bio

Tell us about yourself (optional)

Register

Categories

No categories yet

About

Welcome to Blog, a modern blogging platform built with Django. Share your thoughts, connect with others, and explore interesting content.

POST PAGE

BlogHome

Search posts...🌙LoginRegister

Exploring the Hidden Gems of Southeast Asia

salvin

March 24, 2025

Updated: March 24, 2025

Categories: Uncategorized

Download as PDF

Listen to Article

Southeast Asia is a treasure trove of natural beauty, rich culture, and unforgettable experiences. Beyond the well-known destinations like Bangkok and Bali, there are countless hidden gems waiting to be discovered.

Vietnam's Coastal Paradise

The coastal town of Hoi An in Vietnam offers a perfect blend of history, culture, and natural beauty. With its well-preserved Ancient Town, beautiful beaches, and delicious cuisine, Hoi An is a must-visit destination for any traveler to Southeast Asia.

Cambodia Beyond Angkor Wat

While Angkor Wat is undoubtedly Cambodia's most famous attraction, the country has much more to offer. The peaceful riverside town of Kampot, with its French colonial architecture and proximity to Bokor National Park, provides a refreshing escape from the crowds.

The Philippines' Island Paradise

The Philippines is home to some of the most beautiful islands in the world. Palawan, with its stunning limestone cliffs, crystal-clear lagoons, and rich marine life, offers an unspoiled paradise for nature lovers and adventure seekers.

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Categories

No categories yet

About

Welcome to Blog, a modern blogging platform built with Django. Share your thoughts, connect with others, and explore interesting content.

CREATE NEW POST PAGE

BlogHome

Q Search posts...🌙New Postadmin

Create New Post

Title

Content

Featured Image

Choose File

No file chosen

Categories

☐ Fantasy

☐ Horror

☐ Politics

☐ Technology

☐ Travel

☐ Food

☐ Health

☐ Science

Select one or more categories for your post.

Create Post

Cancel

Categories

No categories yet

About

Welcome to Blog, a modern blogging platform built with Django. Share your thoughts, connect with others, and explore interesting content.

USER PROFILE PAGE

BlogHome

Q Search posts...🌙New Postsalvin salvin

salvin's Profile

salvin

Edit Profile

salvin sorry

@salvin

Member Since

March 24, 2025

Categories

No categories yet

About

Welcome to Blog, a modern blogging platform built with Django. Share your thoughts, connect with others, and explore interesting content.

salvin's Posts

Exploring the Hidden Gems of Southeast Asia

📅 March 24, 2025

👍 0

🗨 0

Southeast Asia is a treasure trove of natural beauty, rich culture, and unforgettable experiences. Beyond the well-known destinations like Bangkok and Bali, there are countless hidden gems waiting to be ...

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The Science Behind a Perfect Cup of Coffee

📅 March 24, 2025

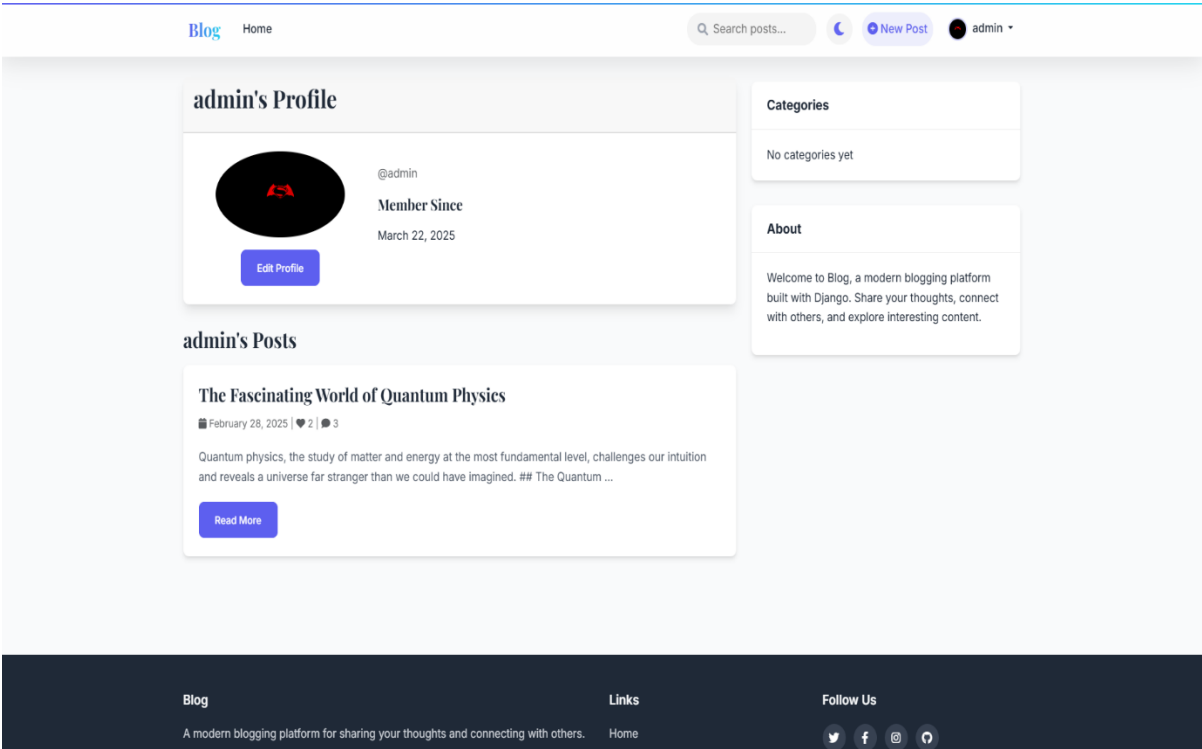
👍 0

🗨 0

Coffee is more than just a morning ritual for millions of people around the world – it's a complex beverage with a rich history and a fascinating science behind it. ...

Read More

ADMIN PROFILE PAGE



EDIT PROFILE PAGE

