Django Blog Site Project

Objective:

Build a fully functional blog site using Django, focusing on CRUD operations, user authentication, and template management. This project will help you understand database integration, form handling, and dynamic content rendering.

Key Features

1. **User Authentication**
   - Implement user login, logout, and registration.
   - Use Django's built-in authentication system.
2. **Blog Post Management (CRUD Operations)**
   - **Create**: Allow users to add new blog posts using Django Model Forms.
   - **Read**: Display all blog posts on the homepage with pagination.
   - **Update**: Enable users to edit their posts.
   - **Delete**: Allow users to delete their posts.
3. **Categories & Tags**
   - Categorize blog posts using predefined categories.
   - Implement tags with ManyToManyField for flexible categorization.
4. **Comments System**
   - Allow users to comment on blog posts.
   - Display comments dynamically on each post's page.
5. **Search & Pagination**
   - Implement a search bar to filter blog posts by title or content.
   - Add pagination to manage multiple posts efficiently.
6. **Template & Styling**
   - Use Django Template Inheritance (base.html for navigation, footer, etc.).
   - Integrate Bootstrap or custom CSS for styling.
7. **Admin Panel Customization**
   - Register models for easy content management.
   - Create a superuser and manage blog posts via Django's admin panel.

Tools & Technologies

- **Frontend**: HTML, CSS (Bootstrap for styling).
- **Backend**: Django (views, models, templates).
- **Database**: SQLite (default Django database).

Learning Outcomes

- Master Django's CRUD operations.
- Understand form validation and user authentication.
- Learn how to structure a Django project efficiently.
- Implement dynamic, reusable templates for scalability.
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Submission Guidelines

- Submit the **GitHub repository link** of the completed project.
- Ensure the project is well-documented with a README file.
- Failure to submit the GitHub link will result in **zero (0) marks**.