

Assignment: Django Blog Application

Objective: Build a simple blog application using Django and Django REST Framework, integrating basic CRUD (Create, Read, Update, Delete) functionalities.

Requirements:

Models:

- Create two models: Post and Comment.
- The Post model should have fields like title, content, author, and published_date.
- The Comment model should be linked to the Post (each post can have multiple comments) and include fields like author, text, and created_date.

APIs:

- Utilize Django REST Framework to create APIs for these models.
- Implement List, Create, Retrieve, Update, and Delete API views for Post.
- Implement List and Create API views for Comment under each Post.

Views and URLs:

- Create corresponding URLs for each API view.
- Ensure that the API returns JSON responses.

User Authentication:

- Implement token-based authentication.
- Only authenticated users should be able to create, update, or delete posts and comments.

Frontend (Optional):

- If you are comfortable with Django React, create a simple front end to interact with the backend API.
- Implement features like displaying all posts, viewing a single post along with comments, and adding a new post or comment.

Documentation:

- Provide a README file with instructions on how to set up and run the application.
- Document the API endpoints with examples.

Testing:

- Write basic tests for your models and API views.

Bonus:

- Implement pagination for the list of posts.
- Add the functionality for users to like a post and count the number of likes.

Submission:

- Submit the code on a GitHub repository.
 - Ensure the code is well-organized and follows Python PEP 8 style guidelines.
 - Include any necessary setup instructions in the README.
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- Kindly complete the technical assignment and submit it back within 7 days.
 - You can either email the test link to the provided email address karandeep@alkye.com , or you can also share the link via LinkedIn message.