**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.