

DJANGO REST API EXERCISE 1

Project: Simple Social Media API

Project Overview:

The project will involve creating a backend for a mini social media application with basic CRUD operations, user authentication, and some additional features to challenge the understanding of DRF.

Core Features to Implement:

1. User Registration and Authentication:

- Implement user registration, login, and logout using DRF's djoser or SimpleJWT for token-based authentication.
- ✓ ○ Include user profile details with fields like name, email, and bio.

2. Post Creation and Interaction:

- ✓ ○ Users can create, update, and delete posts. Each post should have fields like title, content, created_at, and updated_at.
- Add functionality for users to like and unlike posts.

3. Comments:

- Allow users to comment on posts.
- Implement CRUD operations for comments.
- Add nested serializers to handle comments associated with posts.

4. Followers/Following:

- Users should be able to follow or unfollow other users.
- Implement a view to retrieve a list of followers and following for a specific user.

5. Search Functionality:

- Add basic search functionality to filter posts based on keywords, hashtags, or user names.

6. **Pagination, Filtering, and Ordering:**

- Use DRF's built-in pagination and filtering to allow users to view posts by latest or most liked.
- Implement pagination for user lists, posts, and comments.

Additional Technical Concepts to Focus On:

- Use class-based views (ListAPIView, RetrieveAPIView, etc.) for modular and reusable code.
- Create custom permissions for restricted access (e.g., only allowing post owners to edit or delete).
- Optimize performance by limiting database queries.