

SocialSite – Django Project Documentation

1. Introduction

SocialSite is a Django-based social networking platform that allows users to create profiles, post content, comment, like posts, and interact with other users. This document provides a complete overview of the project structure, features, setup guide, and workflow.

2. Project Features

- User Registration & Login (Django Authentication)
- User Profiles with editable information
- Create, Edit, Delete Posts
- Like/Unlike posts
- Comment on posts
- News Feed showing latest posts
- Responsive UI using HTML, CSS, Bootstrap
- Admin Panel to manage users, posts, and reports

3. Project Structure

```
SocialSite/  
■■■ manage.py  
■■■ SocialSite/  
■■■■ settings.py  
■■■■ urls.py  
■■■■ wsgi.py  
■■■■ asgi.py  
■■■ accounts/ (User Authentication App)  
■■■■ models.py  
■■■■ views.py  
■■■■ forms.py  
■■■■ urls.py  
■■■■ templates/accounts/*  
■■■ posts/ (Social Posts App)  
■■■■ models.py  
■■■■ views.py  
■■■■ urls.py  
■■■■ templates/posts/*  
■■■ static/ (CSS, JS, Images)  
■■■ templates/ (base.html and shared components)  
■■■ requirements.txt
```

4. Installation & Setup

1. Extract the project folder.
2. Open terminal and navigate to project directory.
3. Create and activate a virtual environment:
 - `python -m venv env`
 - `env\Scripts\activate` (Windows)
4. Install dependencies:

- `pip install -r requirements.txt`
5. Apply migrations:
 - `python manage.py makemigrations`
 - `python manage.py migrate`
 6. Create superuser:
 - `python manage.py createsuperuser`
 7. Run server:
 - `python manage.py runserver`

5. Database Models

User Model: Django's built-in User

Profile Model:

- user (OneToOne)
- bio
- profile_photo

Post Model:

- user
- content
- image
- created_at

Comment Model:

- user
- post
- text

Like Model:

- user
- post

6. Workflow

- Users sign up and create profiles.
- Users can create posts with text/images.
- Others can like or comment on posts.
- Feed displays posts sorted by date.
- Admin monitors reported posts and user activity.

7. Testing Overview

The tests.py file should include:

- User registration tests
- Login tests
- Post creation tests
- Commenting tests
- Like/Unlike functionality tests
- Profile update tests

8. Conclusion

This documentation covers the core functionality and setup of the SocialSite project. It is designed to help developers understand, run, and maintain the system effectively.

9. Screenshots (Outputs)

Registration

The registration page features a 'Register' form with the following fields and instructions:

- Username:** Required, 150 characters or less. Letters, digits, and @/./+/-/_ only.
- Email:** Required.
- Password:** Required. Instructions: 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 commonly used password; Your password can't be entirely numeric.
- Password confirmation:** Required. Enter the same password as before, for verification.
- Profile:** A placeholder for a profile picture.

Login

The login page features a 'Login' form with the following fields:

- Username:** Required.
- Password:** Required.
- Login:** A blue button to submit the form.

Below the form is a link: [New user? Click here to sign up!](#)

Profile Section

The profile section displays a user's profile information and a list of posts. The user's name is 'Akash' and the profile picture is a placeholder. The posts are titled 'Posts by Akash' and show a list of posts with their respective content and timestamps.

Select an Image

The profile section displays a user's profile information and a list of posts. The user's name is 'Akash' and the profile picture is a placeholder. The posts are titled 'Posts by Akash' and show a list of posts with their respective content and timestamps.

Feed

The feed section displays a list of posts from users you follow. The posts are titled 'Feed' and show a list of posts with their respective content and timestamps.

Ready to Post

The feed section displays a list of posts from users you follow. The posts are titled 'Feed' and show a list of posts with their respective content and timestamps.

Feed - Posts , Comments and Content

The feed section displays a list of posts from users you follow. The posts are titled 'Feed' and show a list of posts with their respective content and timestamps.