

# SOCIAL MEDIA

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Github Link

([https://github.com/RiteshPanchal279/ritesh\\_panchal\\_pythonCourse/tree/main/Final%20Project/social-media](https://github.com/RiteshPanchal279/ritesh_panchal_pythonCourse/tree/main/Final%20Project/social-media))

# INTRODUCTION

A web-based social media platform allowing users to create posts, follow others, and interact securely online.

Key Features:

- User-friendly interface
- CRUD functionality
- Social interactions (likes, follows)

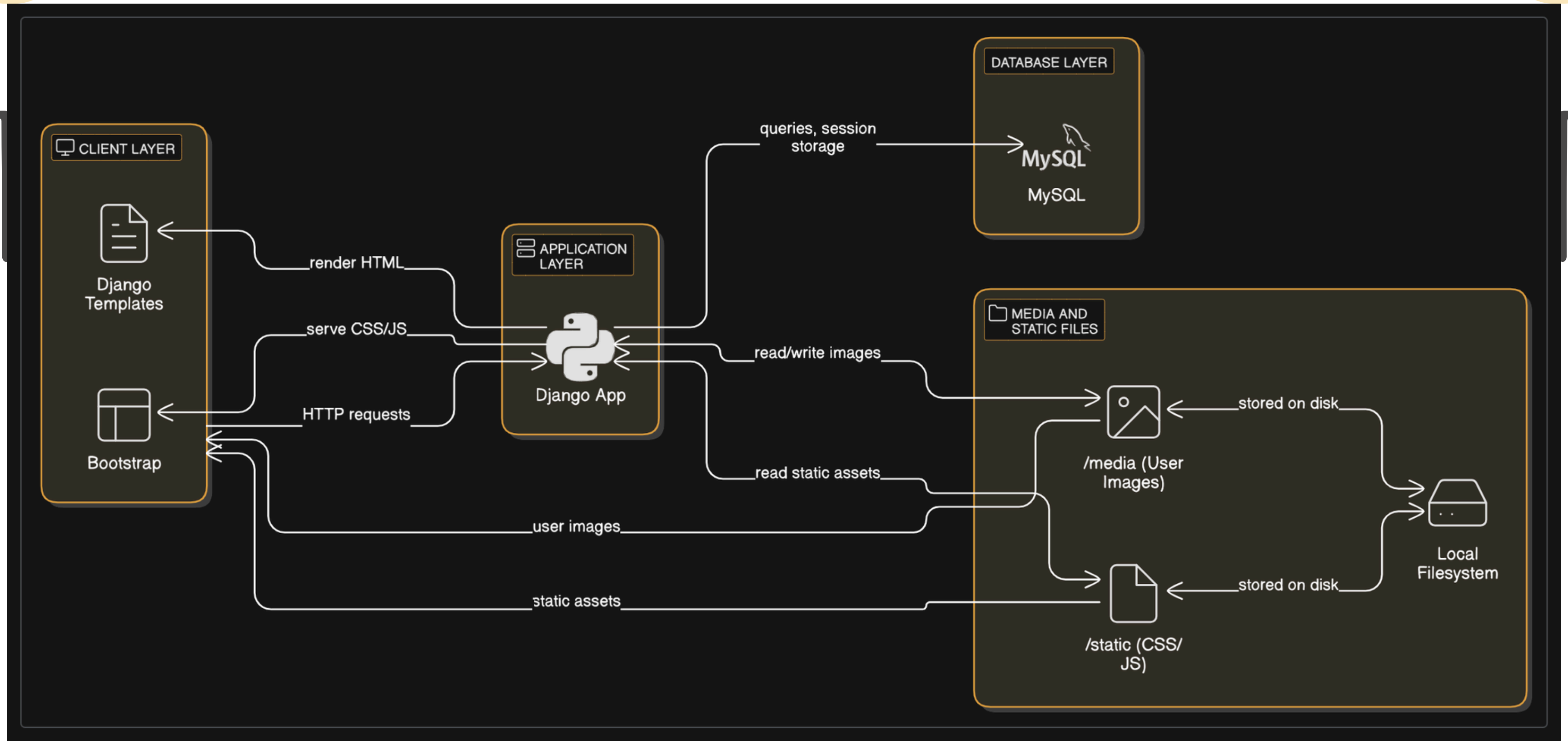
# OBJECTIVE

- Implement a CRUD-based social media platform
- Enable secure admin-based user/content management
- Facilitate user registration, login, and content sharing
- Support image uploads, profile editing, and user connections

# TECK STACK OVERVIEW

Layer	Layer
Frontend	HTML5, CSS3, Bootstrap, JavaScript
Backend	Python (Django Framework)
Database	Python (Django Framework)
Other Tools	Django Admin, Django ORM

# SYSTEM ARCHITECTURE



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## **Client Layer:**

- Django templates rendered in browser
- Styled using Bootstrap

## **Application Layer:**

- Django for HTTP requests, auth, and business logic

## **Database Layer:**

- MySQL stores users, posts, likes, followers, sessions

## **Media/Static Files:**

- /media: User-uploaded images
- /static: CSS/JS assets

# PLATFORM CAPABILITIES

- User Authentication: Signup, login, logout, sessions
- Profile Management: Edit profile, upload picture, bio
- Post Management: Create/view/delete posts, upload images
- Social Interactions: Like posts, follow/unfollow users
- Admin Panel: Manage users, posts, and interactions

# KEY FEATURES IMPLEMENTED

- Secure user registration/login
- Profile editing with image upload
- Post creation with captions/images
- Explore page to view all posts
- Like/unlike posts
- Follow/unfollow users
- Search users/posts
- Admin dashboard for moderation





# DATABASE DESIGN


Table Name	Description
auth_user	Stores user login credentials
userauth_profile	Extended profile: bio, image, location
userauth_post	User posts: image, caption, timestamp
userauth_likepost	Track likes per post
userauth_followers	Follower-following relationships
django_session	Manage user sessions
auth_*, django_*	Django admin and permissions-related tables

# USER ACCESS

## Sign up

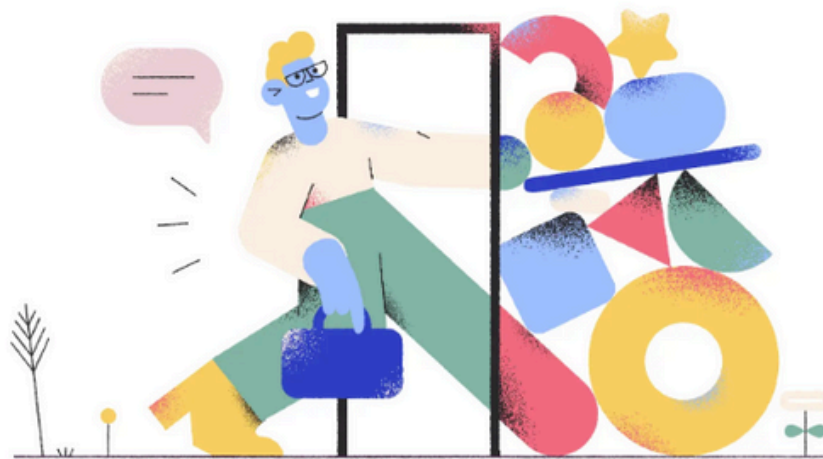
   
Your Name

   
Your Email


   
Password


Already have an account ? [Login](#)

Register



## Login

   
Your Name


   
Password

Don't have an account [Signup](#)

Login



# USER PROFILE



**@PatrickPatel**  
📍 Bihar

Edit profile

0

Photos

0

Followers

0

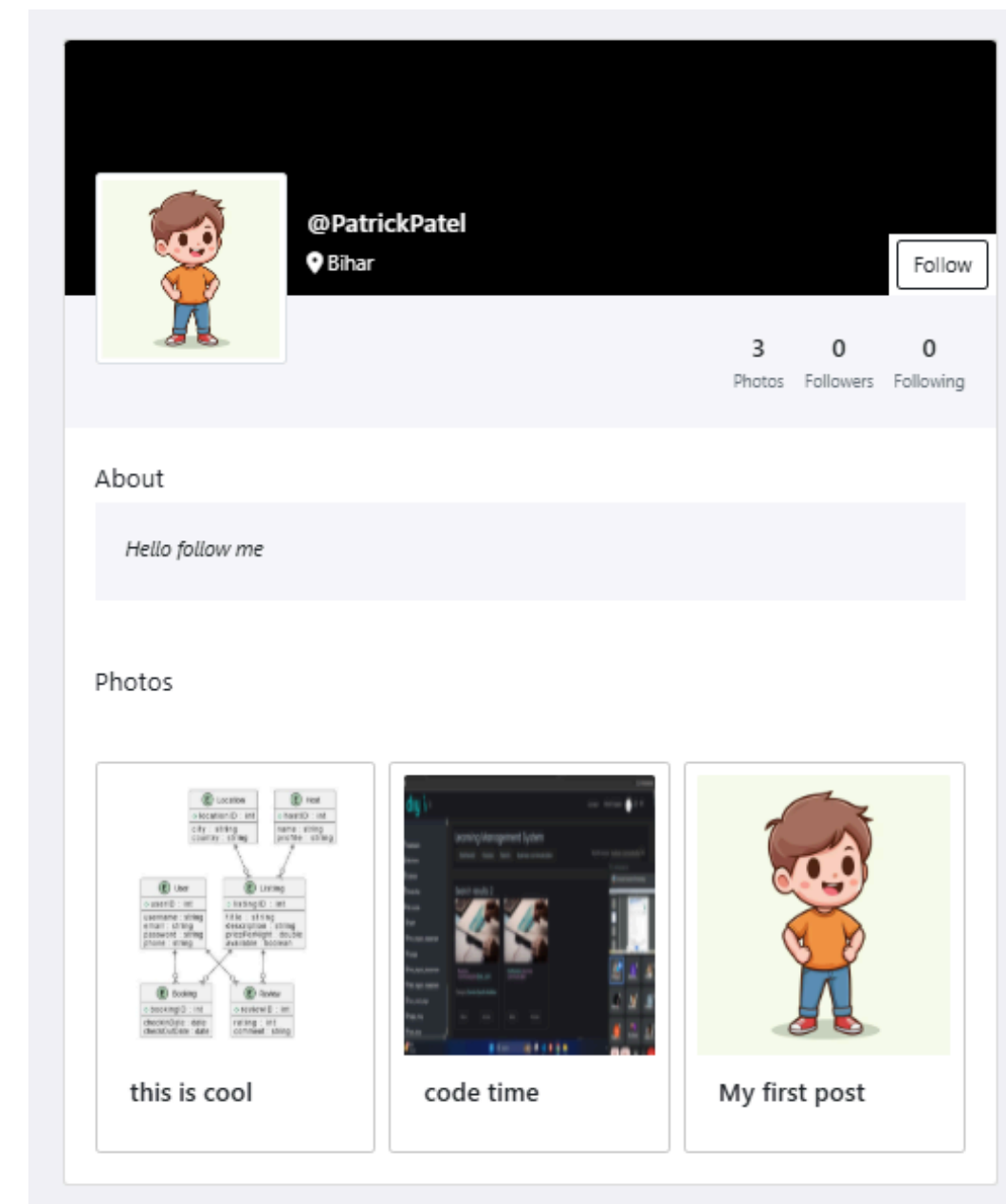
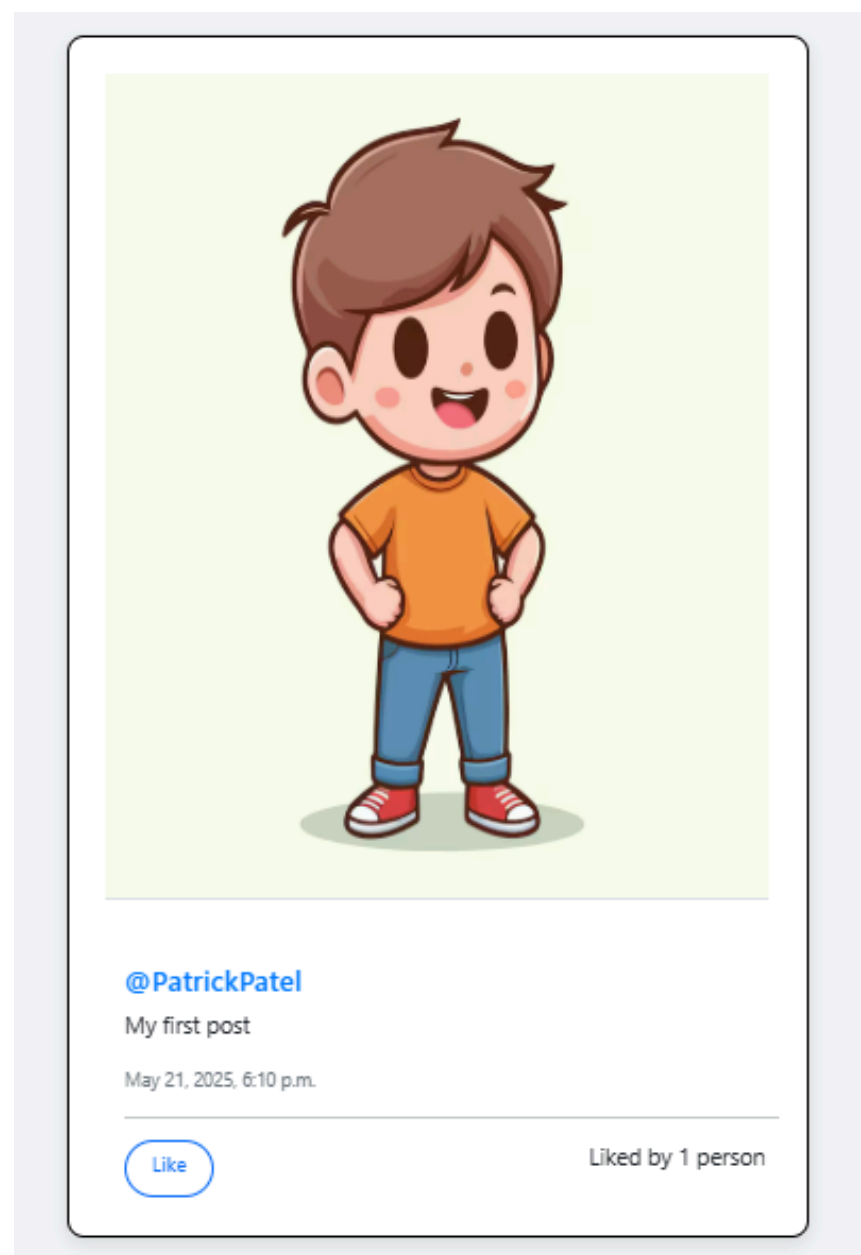
Following

About

*Hello follow me*

Photos

# VISITOR VIEW



# CONCLUSION

The platform offers secure user registration and login, profile editing with image uploads, and post creation with captions and images. Users can explore all posts, like/unlike content, follow/unfollow others, search users or posts, and admins can moderate via a dedicated dashboard.



**THANK YOU**