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FLICKTALES

K Suresh, Venkataramana D, Harsha, R M Rohit

Associate Professor, Department of CSE, Rao Bahadur Y Mahabaleswarappa Engineering College, Karnataka, India

UG Student, Department of CSE, Rao Bahadur Y Mahabaleswarappa Engineering College, Karnataka, India

UG Student, Department of CSE, Rao Bahadur Y Mahabaleswarappa Engineering College, Karnataka, India

UG Student, Department of CSE, Rao Bahadur Y Mahabaleswarappa Engineering College, Karnataka, India

ABSTRACT: FLICKTALES is an innovative, dedicated social media platform tailored for filmmakers, built using Django and React. It provides a structured and scalable space for users to network, collaborate, and access industry-specific services such as direction, editing, and cinematography. The platform supports categorized content sharing, real-time messaging, team building, and a service marketplace. With React (Mantine) delivering a dynamic user interface and Django managing secure backend operations, FLICKTALES ensures efficient data handling using SQLite. The system enhances engagement through role-based access, educational resources, and media sharing. By addressing key industry challenges—fragmented networking, limited visibility for middle workers, and lack of educational hubs—FLICKTALES transforms the way filmmakers connect, learn, and grow, fostering a vibrant and collaborative digital filmmaking ecosystem.

KEYWORDS: FLICKTALES, filmmakers, social media, Django, React, Mantine, power plant management, content sharing, service marketplace, categorized networking, team collaboration, solar energy tracking, role-based access, educational resources, data-driven insights, media platform, scalability, creative community, filmmaking services.

I. INTRODUCTION

The filmmaking industry relies heavily on collaboration, networking, and access to specialized services. However, existing social platforms do not cater specifically to the unique needs of filmmakers, leading to scattered opportunities and limited professional connectivity. FLICKTALES addresses this gap by offering a dedicated social media platform tailored exclusively for filmmakers. It enables users to network, share categorized content, and access filmmaking-related services within a structured digital environment. Built using React (Mantine UI) for the frontend, Django for the backend, and SQLite for data management, FLICKTTALES fosters a collaborative, educational, and service-oriented ecosystem that empowers filmmakers to connect, create, and grow together.

II. LITERATURE SURVEY

1. **Limitations of Current Platforms:** Platforms like Instagram and YouTube support content sharing but lack tools tailored for filmmakers (e.g., role-based categorization, industry-specific networking).
2. **Importance of Networking:** Studies show that networking is vital in filmmaking, but current platforms don't support connections based on specific filmmaking roles.
3. **Service Discovery Issues:** Freelancers like editors or cinematographers rely on informal networks or generic platforms that aren't optimized for the film industry.
4. **Role of Categorization:** Categorized content (e.g., Direction, Editing) increases discoverability and relevance, improving engagement among professionals.
5. **Need for a Centralized Platform:** Research supports building a dedicated platform that integrates content sharing, networking, service listings, and educational content using technologies like React and Django for scalability and structure.

III. METHODOLOGY

SYSTEM FUNCTIONAL SPECIFICATION

1. Key Features:

- User profiles with filmmaking roles.
- Categorized content sharing (e.g., Direction, Editing).
- Networking and team collaboration tools.
- Service marketplace for hiring and offering services.
- Real-time messaging and blog section with tutorials.
- Secure login with role-based access control.

2. Database:

- SQLite used to manage users, posts, messages, and services.
- Supports categorized content and real-time updates.

3. User Input/Output:

- Input: User registration, content upload, service listing, messaging.
- Output: Profiles, content feeds, notifications, analytics dashboard.

4. Limitations:

- **External:** Needs good internet, third-party service dependency, copyright risks.
- **Internal:** UI complexity, performance under load, security maintenance needs.

SYSTEM DESIGN

3.1 System Architecture

- **Frontend:** React with Mantine UI provides an intuitive, responsive interface for content sharing and networking.
- **Backend:** Django handles API requests, authentication, and business logic.
- **Database:** SQLite stores user data, posts, services, and messages.
- **APIs & Hosting:** RESTful APIs connect components; deployment possible on platforms like Heroku or AWS

3.2 System Data Flow Diagrams

- **User Interaction:** React frontend sends requests (e.g., posts, messages) to Django backend via APIs.
- **Backend Processing:** Django applies role-based access control and executes database operations.
- **Data Display:** Processed data is returned to frontend for real-time user updates.
- **System Updates:** Syncs user activities, notifications, and collaborations in real-time.
- **Validation:** Ensures secure, smooth interaction between modules and data layers

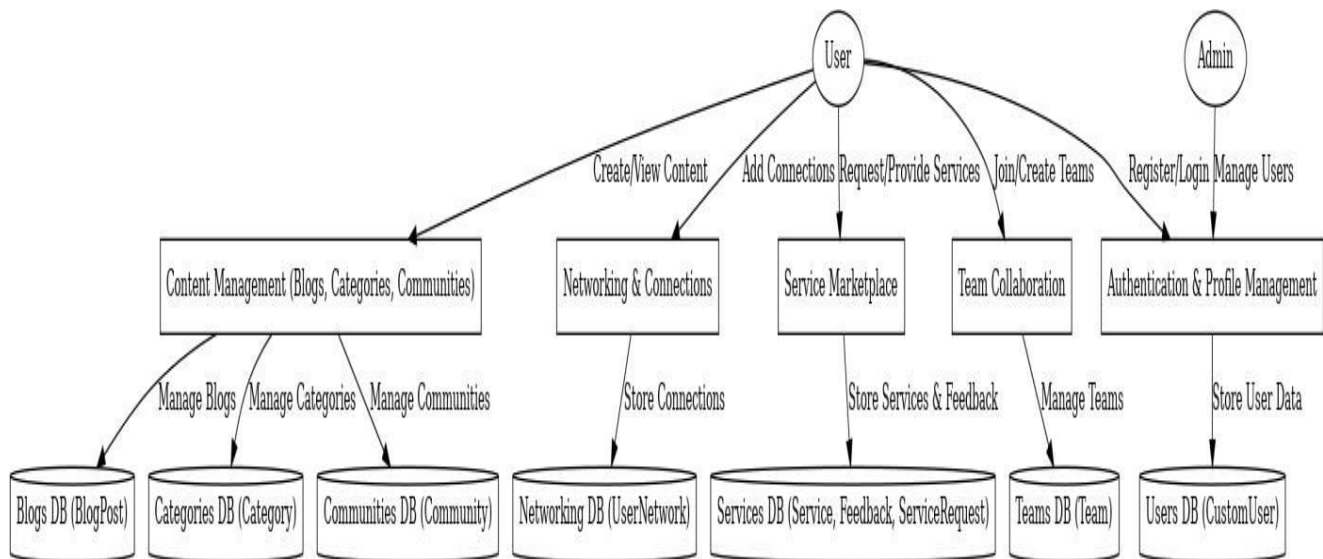
3.3 Description of System Operation

- FLICKTALES uses React, Django, and SQLite to deliver a secure, real-time social platform for filmmakers. Users can post categorized content, collaborate on projects, and offer or hire services through an integrated marketplace.

3.4 Structured Chart and Module Description

- **User Authentication:** Secure login and access control based on roles (Filmmaker, Service Provider, etc.).
- **User Profile & Networking:** Manage user details, categorize interests, and enable connection building.
- **Content Sharing:** Post photos, videos, and blogs tagged by filmmaking categories.
- **Messaging & Collaboration:** Real-time messaging for team formation and communication.
- **Service Marketplace:** List and browse services like editing, directing, and production.
- **Educational Resources:** Access and share tutorials, tips, and filmmaking techniques.
- **Data Management:** SQLite ensures efficient, secure, and scalable content storage.

3.5 Use Case Diagrams



3.8 Equipment Configuration

- Development Hardware: Intel i5/Ryzen 5+, 8–16GB RAM, SSD storage, Full HD monitor.
- Software Tools: VS Code, PyCharm, WebStorm, Git, Python 3.8+, Django, React, SQLite.
- Hosting & Deployment: Vercel/Netlify (Frontend), AWS/DigitalOcean/Heroku (Backend).
- language : mantine , Django , python , sqlite .
- Optional: Docker for containerization, Prometheus/Grafana for monitoring.

SYSTEM VERIFICATION

System verification ensures the FLICKTALES **project** meets requirements through testing.

Tests: Authentication, CRUD operations.

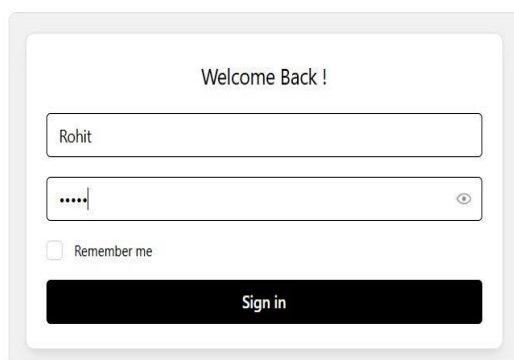
Key Areas: Scalability, security, usability, and performance optimization.

Validation: Ensures **API communication, database integrity, and stable deployment.**

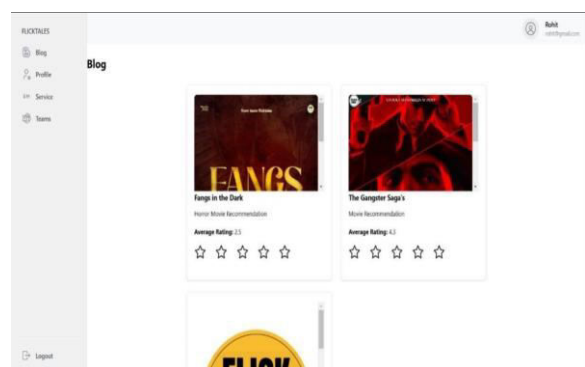
IV. EXPERIMENTAL RESULTS

USER SCREEN SHOTS

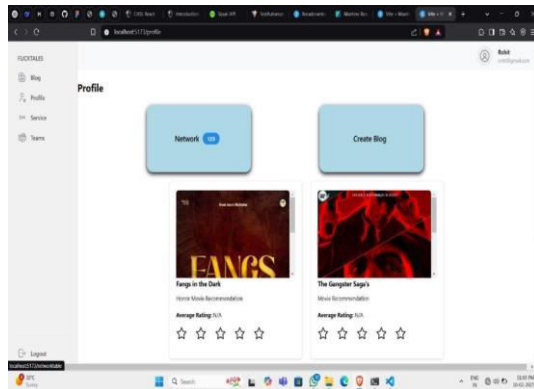
LOGIN PAGE:



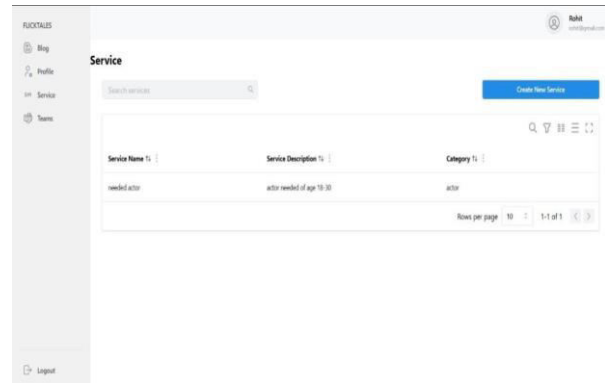
BLOG PAGE:



PROFILE PAGE:



SERVICE PAGE :



V. CONCLUSION

FLICKTALES is a social media platform made for filmmakers. It helps users share videos, find team members, and offer or hire services—all in one place. Built with React, Django, and SQLite, it provides a smooth and secure experience.

The platform makes it easier for filmmakers to connect, learn new skills, and work together. Users can post content by category (like Editing or Directing), chat in real time, and grow their professional network.

Future updates will include a mobile app, AI-based content suggestions, better security using blockchain . FLICKTales aims to become the best online space for filmmakers to connect, create, and grow.

REFERENCES

1. Inspiration Source: Inspired by the lack of dedicated platforms for filmmakers, FLICKTALES enables creative collaboration, service discovery, and categorized networking.
2. Tech Stack: Built with [React + Mantine UI](#) for frontend, [Django REST Framework](#) for backend, and SQLite for efficient local storage.



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