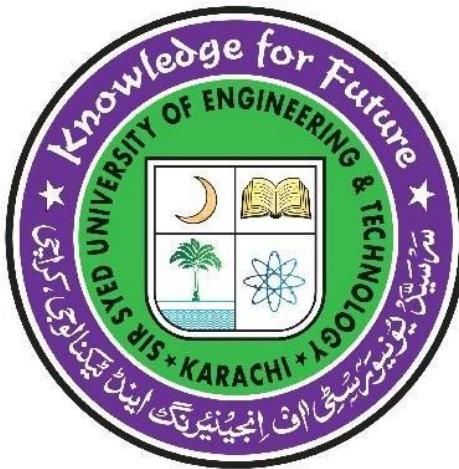


Lab Project Report

Web Technology (CS-316L)

5th Semester Fall 2025



Project Name: Webify

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Project Title: Webify

1. Project Overview

Webify is a modern, dark-themed social networking platform designed to facilitate seamless communication and information sharing. The project focuses on a streamlined user experience, allowing individuals to "transmit" data and media within a professional yet futuristic interface. It bridges the gap between traditional social media and a data-driven dashboard.

2. Project Description

The project is a web-based social application where users can create personal accounts to join a global network. Unlike standard social platforms, Webify utilizes a unique "Data Transmission" concept for posting content. The interface features a high-contrast dark mode with gold accents, emphasizing a "Social Dashboard" feel that organizes navigation, feed controls, and user statistics in a single, cohesive view.

3. Project Objective

- To develop a responsive and secure user authentication system (Login/Sign-up).
- To create a centralized dashboard for content management and social interaction.
- To implement a "Transmit" system for sharing text-based updates and image uploads.
- To provide users with filtering and sorting tools to manage their content feed effectively.

4. Project Overview

Front end

- **HTML5:** Used for structuring the semantic layout of the login pages, registration forms, and the main dashboard grid.
- **CSS3:** Implemented for the "Midnight & Gold" aesthetic, utilizing flexbox/grid for the sidebar navigation and custom glow effects on the "Transmit" modal.
- **JavaScript (ES6+):** Handles the dynamic UI logic, such as opening the "Transmit New Data" popup, form validation, and real-time feed sorting.

Backend Core (Django REST Framework)

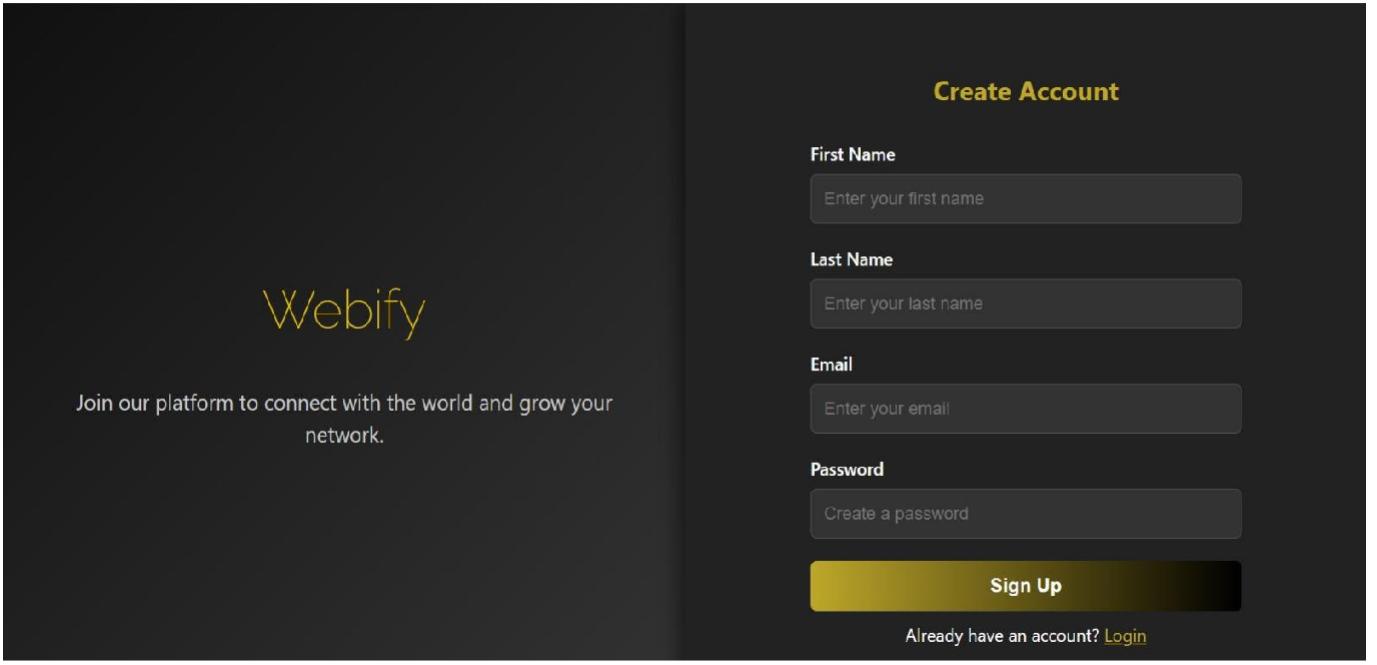
- **Auth:** Supports registration and flexible dual-login (email or username) with session-based security.
- **Post Control:** Handles creation, retrieval, and author-only deletion permissions.
- **Feed Logic:** Features real-time search, "Newest First" ordering, and custom sorting (e.g., most liked).
- **Interactions:** Implements a toggle-like system that returns live counts and user-specific "liked" status.
- **Data Flow:** Uses custom serializers to inject author metadata and user-specific interaction states into the API response.

5. Key Features

Feature	Description
Secure Authentication	A dedicated gateway for users to create accounts and log in securely.
Data Transmission	A modal-based posting system that supports both text and image attachments.
Advanced Feed Controls	A search and "Sort by" functionality (e.g., Latest First) to help users navigate posts.
Analytics Sidebar	A "Statistics" section to track user engagement and network growth.
Media Integration	Ability to upload and display high-quality images and newsletters within the feed.

6. Project UI

Create Account



The screenshot shows the 'Create Account' form for the Webify platform. The background is dark gray. On the left side, there is a large 'Webify' logo in a stylized yellow font. Below the logo, a tagline reads: 'Join our platform to connect with the world and grow your network.' On the right side, the form fields are arranged vertically. Each field has a label in bold black text followed by a light gray input box with placeholder text. A large yellow 'Sign Up' button is at the bottom, and a link to 'Login' is at the very bottom.

Create Account

First Name
Enter your first name

Last Name
Enter your last name

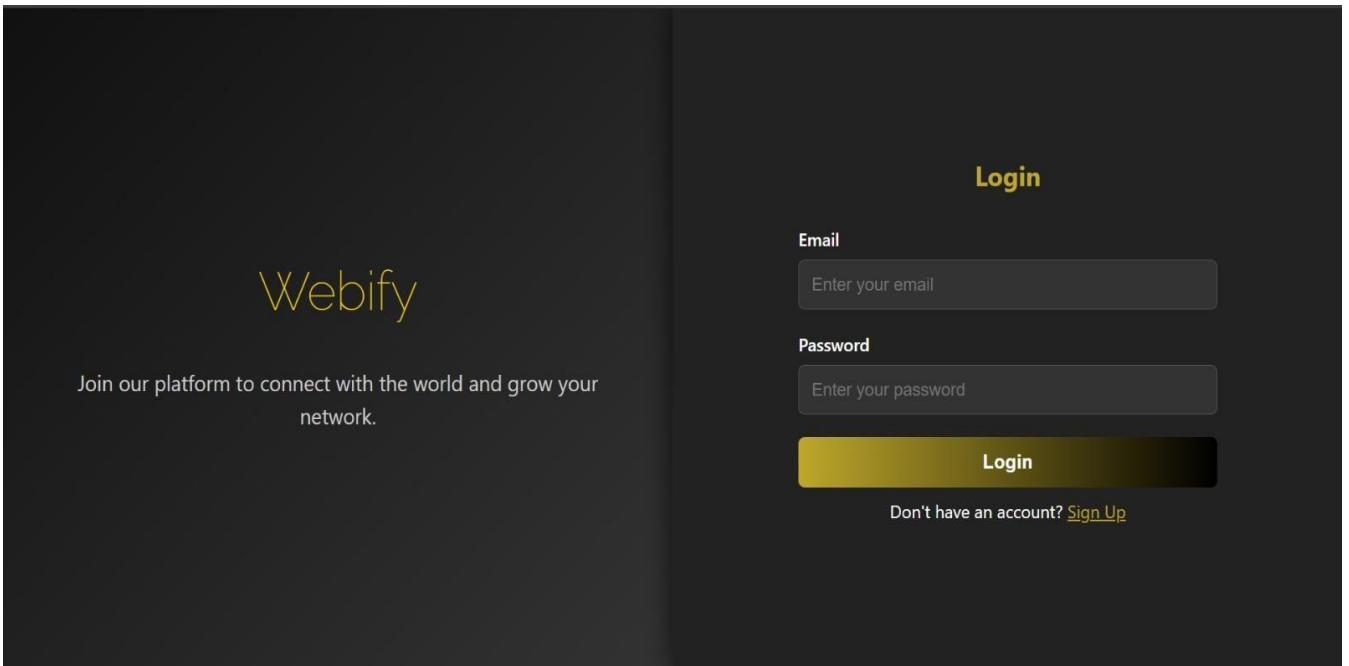
Email
Enter your email

Password
Create a password

Sign Up

Already have an account? [Login](#)

Login Account



The screenshot shows the 'Login' form for the Webify platform. The background is dark gray. On the left side, there is a large 'Webify' logo in a stylized yellow font. Below the logo, a tagline reads: 'Join our platform to connect with the world and grow your network.' On the right side, the form fields are arranged vertically. Each field has a label in bold black text followed by a light gray input box with placeholder text. A large yellow 'Login' button is at the bottom, and a link to 'Sign Up' is at the very bottom.

Login

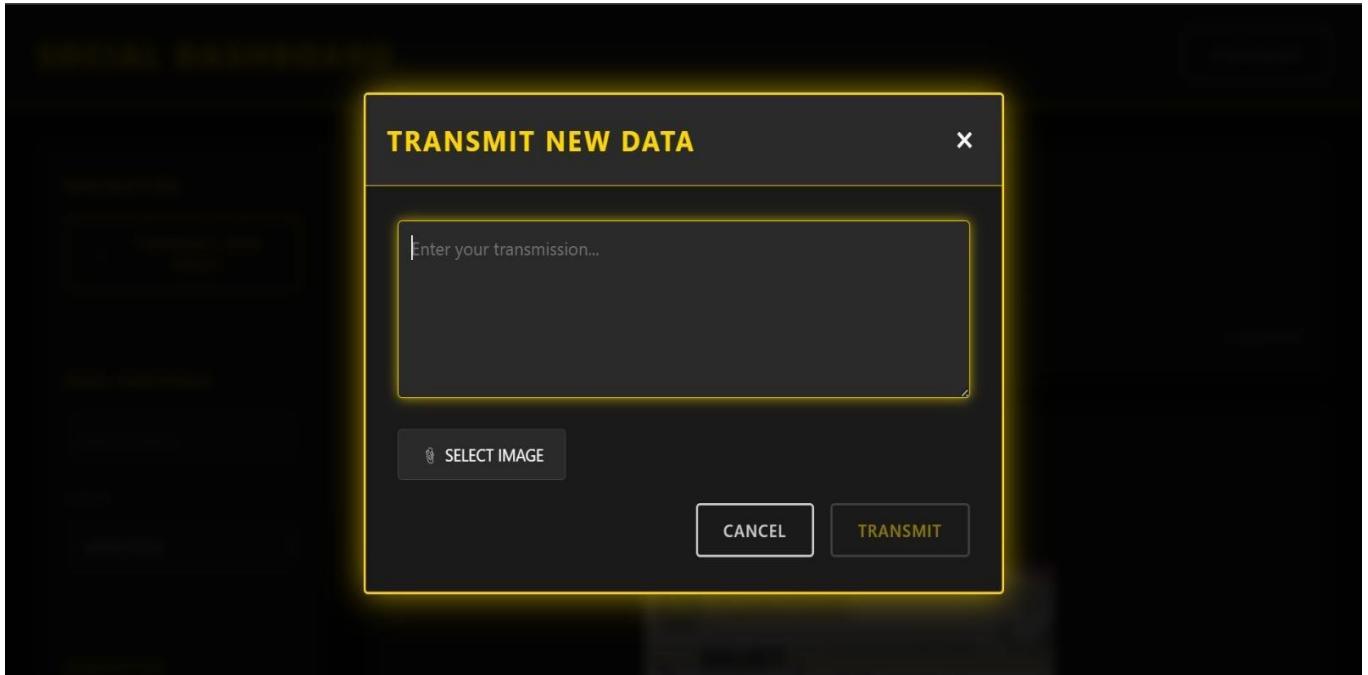
Email
Enter your email

Password
Enter your password

Login

Don't have an account? [Sign Up](#)

Posting



Dashboard

A screenshot of a dashboard interface. On the left, there's a sidebar with sections for 'NAVIGATION' (containing a 'TRANSMIT NEW DATA?' button), 'FEED CONTROLS' (with a search bar and 'Sort by' dropdown set to 'Latest First'), and 'STATISTICS'. The main area shows a feed of posts. The first post is from a user named 'msd' (indicated by a yellow circle with a 'M') posted 1h ago. The post content is 'hii hii hii'. To the right of the feed is a preview of the 'SSUET Newsletter' (Volume 21 | Issue No. 02 April to June 2025). The newsletter header features the Sir Syed University logo and a portrait of Sir Syed Ahmad Khan. It includes several news items: 'SSUET Special Convocation The Iraqi Ambassador an Honorary D. Lit Degree', 'Active Project Review Progress Session Held By SSUET', and 'Seminar on AI Emerging Technology For Youth Empowerment'. Below these are images of people at events and a group photo. Logos for various sponsors like TEC, IIT, and others are at the bottom.

7. Project Outcome

The resulting application provides a high-end, functional prototype of a social networking site. Users can successfully register, log in, and interact with a live feed. The project demonstrates a strong grasp of UI/UX design principles, specifically in creating a "Dashboard" environment that feels more organized and professional than a standard social media scroll.

8. Conclusion

Webify successfully achieves the goal of creating an intuitive and visually striking social platform. By focusing on a "Social Dashboard" layout, the project offers a unique way to manage online connections and data sharing. Future iterations will focus on backend integration to enable real-time messaging and global data persistence.

Tools

