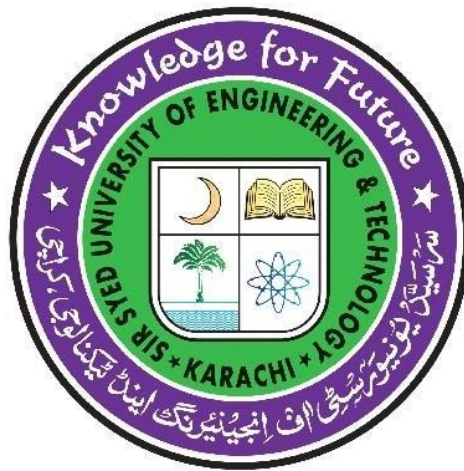


# Lab Project Report

## Web Technology (CS-316L)

5<sup>th</sup> 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)**

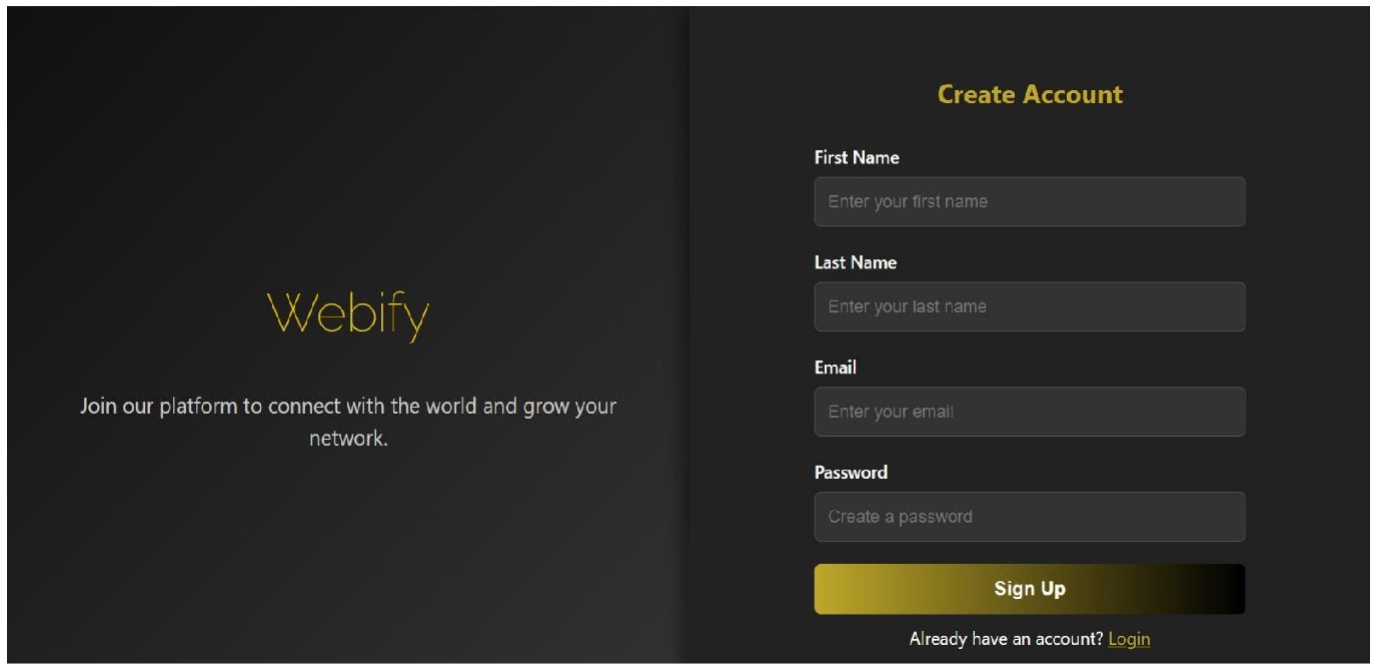
- **Auth:** Supports registration and flexible dual-login (email or username) with session-based security.
- **Post Control:** Handles creation, retrieval, and author-only deletion permissions.
- **Feed Logic:** Features real-time search, "Newest First" ordering, and custom sorting (e.g., most liked).
- **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.

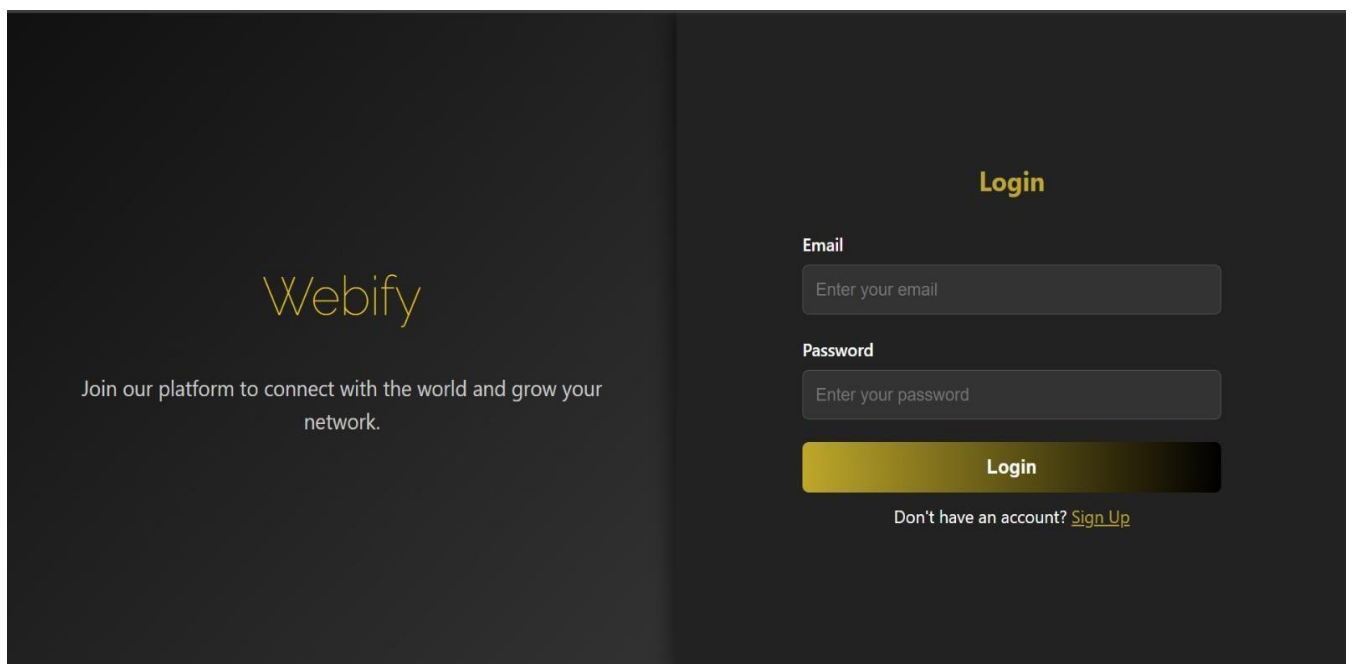
## 6. Project UI

### Create Account



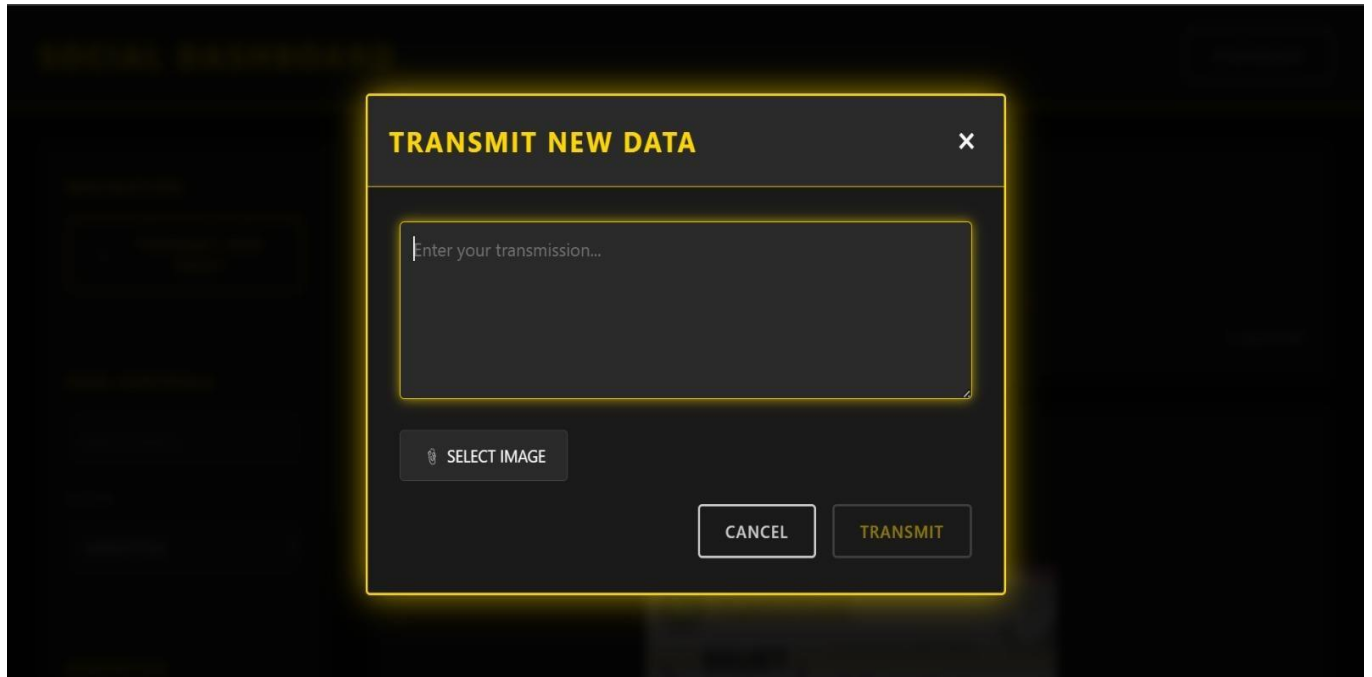
The image shows a dark-themed user interface for a 'Webify' platform. On the left side, the 'Webify' logo is displayed in a light yellow font, with the tagline 'Join our platform to connect with the world and grow your network.' below it. On the right side, there is a 'Create Account' section. It includes four input fields: 'First Name' (placeholder: 'Enter your first name'), 'Last Name' (placeholder: 'Enter your last name'), 'Email' (placeholder: 'Enter your email'), and 'Password' (placeholder: 'Create a password'). Below these fields is a prominent yellow 'Sign Up' button. At the bottom of the right section, there is a link that says 'Already have an account? [Login](#)'.

### Login Account

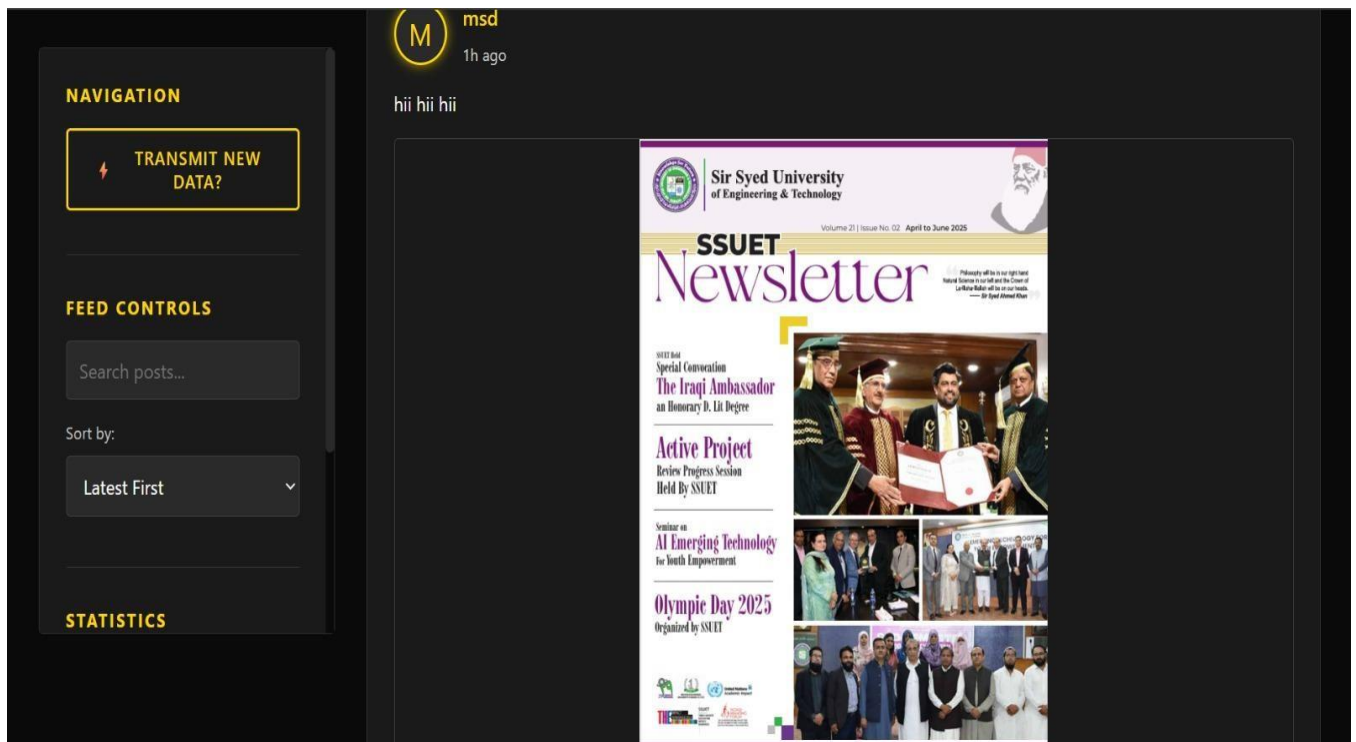


The image shows a dark-themed user interface for a 'Webify' platform, similar to the one above. On the left side, the 'Webify' logo is displayed in a light yellow font, with the tagline 'Join our platform to connect with the world and grow your network.' below it. On the right side, there is a 'Login' section. It includes two input fields: 'Email' (placeholder: 'Enter your email') and 'Password' (placeholder: 'Enter your password'). Below these fields is a prominent yellow 'Login' button. At the bottom of the right section, there is a link that says 'Don't have an account? [Sign Up](#)'.

## Posting



## Dashboard



## **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**

