



Project Presentation of Integrated Project (IP) (22CS026)

On

# TWEETZY

*A Social Media Hub*

Team No : 15

Khushi Garg : 2210991800

Kavya Arora : 2210991776

Supervised By

Mr. Rahul

Department of Computer Science and Engineering,  
Chitkara University, Punjab

Tweetzy is a next-gen social media app designed to:

- Foster authentic connections through meaningful interactions.
- Promote mental well-being with mindful, user-centric features.
- Build inclusive communities that inspire creativity and positivity.

Experience a balanced, fulfilling digital lifestyle with Tweetzy!

- **Lack of Time for Meaningful Connections:** People struggle to foster genuine relationships due to busy schedules and fragmented social interactions.
- **Mental Health Strain:** Many users face stress and anxiety from the pressures of modern life, with social media often exacerbating these mental health challenges.
- **Limited Local Information:** Users often have limited access to relevant content and events specific to their local area, reducing the platform's usefulness.
- **Complicated User Interface:** Cluttered and complex app designs create a frustrating experience, making it difficult for users to navigate and engage.

The objective of Tweetzy is to transform the social media landscape by:

- Encouraging authentic and meaningful interactions over superficial engagement.
- Promoting mental well-being through digital detox, mindfulness reminders, and screen time tracking.
- Delivering personalized, location-based content for enhanced user relevance.
- Ensuring a minimalist and user-friendly interface for seamless navigation and engagement.

- **Fostering Meaningful Connections:**

Tweetzy focuses on authentic, quality interactions rather than superficial metrics. Features like interest-based communities, meaningful conversation prompts, and personalized recommendations promote deeper connections between users.

- **Promoting Mental Well-Being:**

With in-app features like mindfulness reminders, daily digital detox options, and screen time tracking, Tweetzy helps users manage stress and reduce the negative impact of excessive social media use.

- **Localized Content and Events:**

Tweetzy provides location-based content, event recommendations, and community groups specific to users' regions, helping them stay informed about relevant local happenings.

- **Simplified User Interface:**

The app's intuitive, minimalist design ensures users have an easy, stress-free experience, with simplified navigation and personalized dashboards for effortless engagement.

## Snapshots of Code:

```
useFollow.jsx X
frontend > src > hooks > useFollow.jsx > useFollow
1  import { useMutation, useQueryClient } from "@tanstack/react-query";
2  import toast from "react-hot-toast";
3
4  const useFollow = () => {
5      const queryClient = useQueryClient();
6
7      const { mutate: follow, isPending } = useMutation({
8          mutationFn: async (userId) => {
9              try {
10                  const res = await fetch(`/api/users/follow/${userId}`, {
11                      method: "POST",
12                  });
13
14                  const data = await res.json();
15                  if (!res.ok) {
16                      throw new Error(data.error || "Something went wrong!");
17                  }
18                  return;
19              } catch (error) {
20                  throw new Error(error.message);
21              }
22          },
23          onSuccess: () => {
24              Promise.all([
25                  queryClient.invalidateQueries({ queryKey: ["suggestedUsers"] }),
26                  queryClient.invalidateQueries({ queryKey: ["authUser"] }),
27              ]);
28          },
29          onError: (error) => {
30              toast.error(error.message);
31          },
32      });
33  };
34  };
```

```
JS protectRoute.js X
backend > middleware > JS protectRoute.js > protectRoute
1  import User from "../models/user.model.js";
2  import jwt from 'jsonwebtoken'
3
4  export const protectRoute = async (req, res, next) => {
5      try {
6          const token = req.cookies.jwt;
7          if (!token) {
8              return res.status(401).json({ error: "unauthorized no token provided" });
9          }
10
11          const decoded = jwt.verify(token, process.env.JWT_SECRET);
12          if (!decoded) {
13              return res.status(401).json({ error: "unauthorized Invalid token" });
14          }
15
16          const user = await User.findById(decoded.userId).select("-password");
17
18          if (!user) {
19              return res.status(404).json({ error: "User not found" });
20          }
21          req.user = user;
22          next();
23          //next iisliye call kra hai taake iske baad voh route call ho sake jo iske baad likha hai
24      } catch (error) {
25          console.log("error in protectroute middleware", error.message);
26          res.status(500).json({
27              error: "Internal server error"
28          });
29      }
30  };
31  };
```



## Join today.

Email

Username

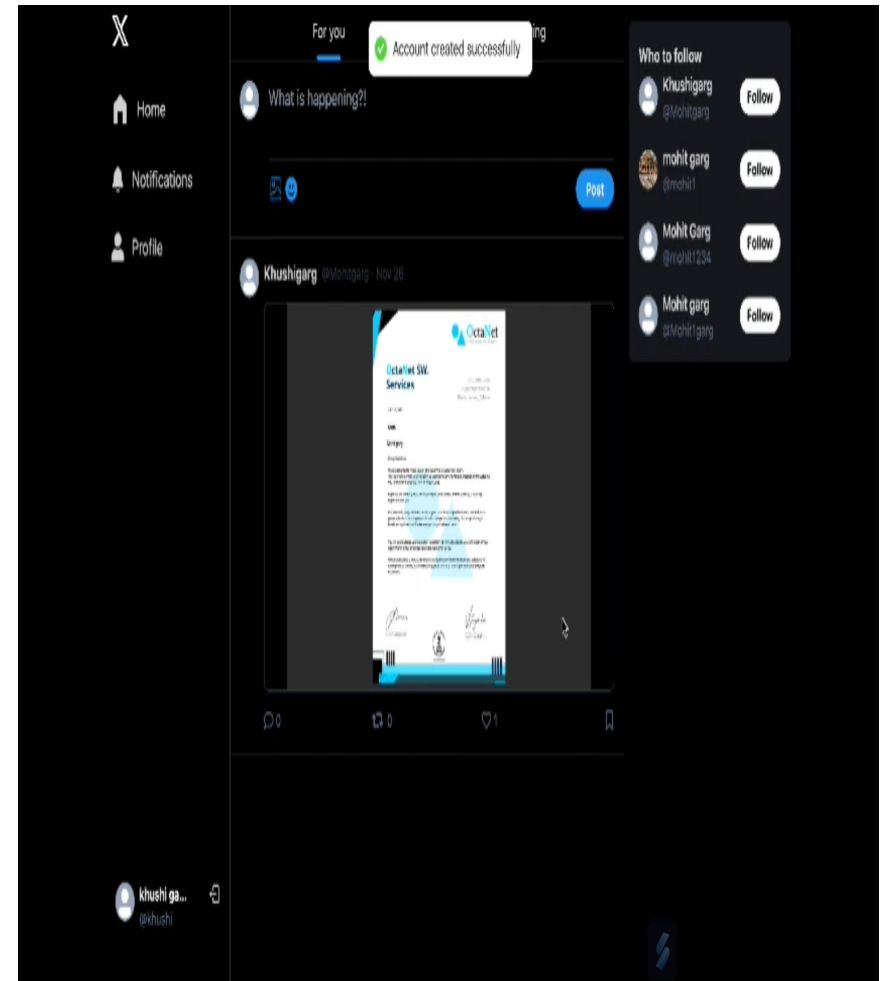
Full Name

Password

Sign up

Already have an account?

Sign in





- **Scalability & Performance**

Handling a large number of concurrent users and posts efficiently.

Managing database load to ensure fast content delivery.

- **Security & Privacy**

Protecting user data from breaches and cyber-attacks.

Preventing fake accounts and bot activities.

Ensuring end-to-end encryption for private messages.

- **Technical Challenges**

Optimizing algorithms for news feeds and recommendations.

Managing APIs, cloud storage, and real-time updates.

- **Feature Development & Innovation**

Keeping up with trends (e.g., AI-driven recommendations, live streaming).

Ensuring seamless integration with other platforms.

- **Chat Feature:**

Tweetzy will introduce an advanced messaging system, allowing users to have seamless, real-time conversations. This will include text, voice, and video chat options to enhance communication and foster deeper connections.

- **AI Suggestions During Posting:**

AI-driven content suggestions will assist users while posting, offering relevant hashtags, captions, and even content ideas based on user interests and trends, making posts more engaging and personalized.

- **Two-Factor Authentication (2FA):**

To enhance security, Tweetzy will implement 2FA, ensuring that user accounts are protected from unauthorized access and reinforcing trust in the platform.

- **Story Posting:**

A new feature will allow users to post and share short stories, encouraging more dynamic, temporary content sharing. Stories will include interactive elements like polls, questions, and live updates to engage audiences in real- time.

Tweetzy is designed to revolutionize the social media experience by prioritizing meaningful connections, mental well-being, and user-centric features. With its focus on authenticity, localized content, and a simplified interface, Tweetzy offers a refreshing alternative to traditional social platforms. The future integration of advanced features like real-time chat, AI suggestions, two-factor authentication, and story posting will further enhance user engagement, security, and personalization. By addressing the common challenges of social media, Tweetzy aims to create a healthier, safer, and more fulfilling digital space for all users.

Tweetzy addresses key challenges in social media by:

- Building Genuine Connections – Facilitating deeper interactions through curated interest-based communities.
- Prioritizing Mental Wellness – Integrating features that help manage stress and encourage balanced digital usage.
- Enhancing Local Engagement – Providing real-time recommendations for local events and community activities.
- Future Developments – Introducing AI-powered post suggestions, secure two-factor authentication, real-time messaging, and interactive story features to elevate user experience.



# Thank You