Project Plan

Table of Contents

# Project Definition

YansTribe is a social media platform designed to offer users a seamless and engaging experience for sharing posts, commenting on content, and chatting in real time. Unlike traditional platforms that prioritize algorithm-driven content and advertising, YansTribe focuses on user-centric interactions, privacy and a clutter-free environment. The platform is built to be scalable and secure, ensuring that users can connect and communicate without unnecessary distractions.

## Client

The creator of YansTribe, who envisions developing a modern social media platform that blends the best features of Facebook and Instagram while prioritizing user experience and privacy.

## Team

Team members: Project Owner, Backend Developer, Frontend Developer, UI/UX Designer, QA Tester.

## Current Situation

There is need for a new social media platform that combines elements of Facebook and Instagram while offering a fresh approach to user interaction, focusing on posts, comments, and a chat system.

## Problem Description

Existing social media platforms are often cluttered with unnecessary features, privacy concerns, and algorithm-based content filtering. YansTribe aims to provide a streamlined and privacy-focused alternative where users can share posts, comment on posts, and communicate in real time.

## Project Goal

The goal of YansTribe is to develop a scalable and user-friendly social media platform that allows users to create posts, comment, and chat while ensuring high performance and data security.

## Deliverables

* User Authentication System (Registration, Login, Profile Management)
* Post System (Users can create, edit, delete, and view posts)
* Comment System (Users can comment on posts)
* Chat System (Real-time messaging between users)
* Media Uploads (Images and videos in posts)
* Admin Panel (User management and content moderation)
* Secure and Scalable Backend (Using MVC ASP.Net and MSSQL)
* Mobile-Friendly UI (Responsive design for web and mobile)

## Non-Deliverables

* Advanced AI-based content moderation
* Integration with third-party platforms (e.g., Instagram API, Facebook API)
* Video calling functionality
* Replying on chat messages
* Monetization features (ads, premium memberships)

## Constraints

### Timeframe

The platform must be completed within 15 weeks

### Technology Stack

* Admin Frontend : HTML, Tailwind CSS
* User Frontend : Next.js, Tailwind CSS, ShadcnUI
* Backend: MVC ASP.NET C#
* Database: MSSQL
* Hosting: Windows Fontys Server
* Authentication: JWT (Json web token)

## Risk Analysis

### Scalability Issues

* Probability: Medium
* Impact: High
* Prevention: Optimize database queries and implement caching strategies.

### Security Vulnerabilities

* Probability: Medium
* Impact: High
* Prevention: Use secure authentication, input validation, and encryption techniques.

### User Adoption Challenges

* Probability: High
* Impact: Medium
* Prevention: Create an intuitive UI and implement a strong marketing strategy.

# Phasing

## Phase 1: Weeks 1 – 3

Focus: Project Setup & Core Infrastructure

* Finalize the project plan.
* Set up the backend ( MVC ASP.NET C#)
* Set up the frontend (HTML + Next.js + Tailwind CSS)
* Implement basic connectivity.

Outcome: A structured codebase with basic connectivity.

## Phase 2: Weeks 4 – 6

Focus: Core Features (Posts & Comments + Authentication + Admin panel)

* Implement authentication using JWT + encrypted passwords.
* Implement the post creation and management system.
* Develop the comment system.
* Implement post integrations (likes, edits, deletes).
* Implement Admin panel for handling user activity.

Outcome: Users can register account and login to their account, create posts and comment on them.

## Phase 3: Weeks 7 – 9

Focus: Chat System

* Implement real-time messaging using WebSockets.
* Implement profile management features.

Outcome: Users can send messages.

## Phase 4: Weeks 10 – 12

Focus: Enhancing UI & User Experience

* Improve UI design and responsiveness.
* Optimize database queries for better performance.
* Conduct user testing and gather feedback.

Outcome: A polished and optimized user experience.

## Phase 5: Weeks 13 – 15

Focus: Final Testing & Deployment

* Conduct security testing.
* Fix bugs and optimize performance.

Outcome: A fully functional and secure social media platform ready for users.

# Conclusion

YansTribe aims to provide a simple, engaging, and privacy-focused social media experience. By following a structured development plan, the project will ensure timely completion while maintaining high quality and security standards.