Software Engineering (EECS 3550), Spring 2024, Instructor: Fayeq J. Syed

Group Members

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Project name

Social Media App

1. Summary of the project

The purpose of this project is to enhance interpersonal connections through the utilization of a social media application. This platform will facilitate interactions between users and assist them in organizing meetups for various purposes, ranging from business meetings to romantic dates.

To ensure convenience in scheduling, the application will provide users with their respective free time slots. This feature will enable them to efficiently plan meetups and engage in discussions about the specifics via a chat interface.

1. Motivation

Motivated by the decline in physical interactions due to the pandemic, this project aims to develop a social media app that facilitates real-life connections by enabling users to plan meetups for various events.

1. Benefactors

People of all ages will be the most active users of this software product.

1. Programming Language

This project will be developed using mern stack which includes MongoDB, Express. js, React, and Node. js.

* MongoDB provides a flexible and scalable data management solution.
* Express.js simplifies writing code and building back-end components for application development.
* React, known for its component-based architecture and efficient rendering, empowers developers to build dynamic and interactive user interfaces.
* Node.js enables fast and event-driven back-end development, facilitating seamless communication between the front-end and back-end components

1. Resources
   * Tech Stack:
     + Development Environment: Visual Studio (JavaScript)
     + Database: MySQL
     + Server Hosting: Undecided (consider options below)
     + Frontend: Java/JavaScript
     + Communication: Google Meet/WhatsApp/Microsoft Teams
   * Learning Resources:
     + Full Stack Web Development Bootcamp with MERN Stack Projects: Udemy (good starting point for understanding full-stack development with MERN)
     + MERN Stack Expense Tracker Application: Udemy (practical example of building a MERN app)
     + MERN Stack Bus Ticket Booking App: Udemy (another example focusing on different functionality)
   * Additional Resources:
     + Free for Developers: https://free-for.dev/ (list of free tools and services for developers)
     + MERN Stack Tutorial: https://www.theodinproject.com/paths/full-stack-javascript (in-depth guide to learning MERN stack)
     + MySQL Tutorial: https://dev.mysql.com/doc/refman/8.0/en/tutorial.html (official MySQL documentation)
   * Server Hosting Options:
     + Free options: Heroku, AWS Free Tier, Azure Free Account (limited resources)
     + Paid options: DigitalOcean, Linode, Amazon EC2, Google Cloud Platform (more flexibility and scalability)
2. Scenario 1

Provide an interface where users can discuss details of meetups.

1. Scenario 2

A personal profile page where people can post their blogs.

1. Scenario 3

A company wants to organize an event at a specific time and place.