UE19CS204 – Web Technologies
Mini Project

Task Management App for Students - ProdPod

Section - G

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GITHUB Link - https://github.com/shreyasdvrj/web-tech-project

Technologies Used

MAIN

- MongoDB - document-oriented, NoSQL database used to store the application data
- ExpressJS - server side, back-end framework to write simplified applications
- ReactJS - frontend library used to build UI components that create the user interface
- NodeJS - JavaScript runtime environment

ADDITIONAL

- bcrypt - password-hashing function
- body-parser - extract the entire body portion of an incoming request stream
- mongoose - schema-based solution to model your application data
- socket.io - realtime web applications by bi-directional communication
- passport - authentication middleware
- concurrently - package which can run multiple npm scripts
- nodemon - simple monitor script for use during development of a node.js app
- axios - intercept HTTP requests and responses and enables client-side protection
- jsonwebtoken - standard used to create access tokens for an application

Abstract

In the current scenario, with all activities moved online, school and university students have lost out on much of the classroom experience and interaction with their peers, resulting in a dip in productivity.

Hence, a system that helps students by improving on the aforementioned aspects has become a necessary part of the modern education world.

Through this project, we aim to:

- create an interface that facilitates a smooth study experience with tools for planning and note-making.
- provide a common platform to share ideas, find interested team-mates and post doubts.
- get current updates from the university via their tweets

This system should help the students streamline their tasks, keep track of information.
It will also aid collaboration between students for projects, discussions, etc .
Building this system in a web interface will further help the ease of accessibility through any browser.

FUNCTIONALITIES:
1. Login page so each student has their own profile, home page with tweets
2. To Do list to keep track of tasks
3. Projects to jot down important information and due dates
4. A common discussion section for all to post queries, asking for project partners, ideas etc

Member Contributions

SHEETAL

1. **To Do List**
   - add, delete item
2. **Discussion Chatbox**
   - post messages
3. **Home Page**
   - display Twitter feed
   - link to Sign In page

(Frontend and Backend)

SHREYAS

1. **Login and Signup**
   - create account
   - authorize
2. **Project Notes**
   - add, edit and delete
3. **Full Stack Integration**
   - route all functionalities

(Frontend and Backend)