

Week 8 Report

Team Name/Project Title: ThriveToday

This Weeks Lead: Alan Luu

Members: Jeremy Esch, Alan Luu (lead), Henry Fan, Taylor Trinidad

GitHub: <https://github.com/Jesch101/ThriveToday>

Job Assignments:

Jeremy: Frontend/Project Setup
Henry: Backend/Marketing
Taylor: Backend/UI Design
Alan: Backend/Database

Milestones with deadlines:

Milestone 4: Begin coding frontend and backend (Deadline: 3/4)

Milestone 5: Start testing API and set up local hosting (Deadline: 3/18)

Milestone 6: Connect database to backend and start on responsive frontend design (Deadline: 4/1)

Milestone 7: Integrate frontend with backend through Axios API request library (Deadline: 4/15)

Milestone 8: Prototype (Deadline: 4/29)

Technologies:

Frontend: React/Create React App (Dev build tool), Material UI for styling, Axios for API requests

Backend: Node.js as backend, Express.js for routing, PostgreSQL database for storage

Tasks Accomplished Per member:

- Jeremy
 - Refactored backend codebase .
 - Finished coding sessions for logged in users.
 - Created middleware for protecting api endpoints from being used by sources that aren't logged in.
- Henry
 - Learning how backend and frontend connects
 - Trying to see how we might develop a feature leveraging AI
- Taylor
 - Working on Like feature
 - "Like/Unlike Post" queries
- Alan
 - Tested live hosting using Docker hosted in a cloud virtual machine that can be accessed from anywhere using a public ip address

This week we focused on the implementation of security features for our project. For one, we need a secure way to allow users to log in and to save their information throughout their time on our app. To do this, we have implemented sessions via the express-session library. We can use these sessions to see which users are logged in or not, and with that data, authentication middleware can be created to protect certain API endpoints from being called unless a user is logged in. API authentication middleware is crucial for protecting sensitive information by ensuring that only authorized users can access it. Without proper authentication, API endpoints can be vulnerable to malicious attacks and unauthorized access, which can lead to data breaches and other security risks. Implementing authentication middleware is a simple and effective way to prevent these risks and protect the confidentiality, integrity, and availability of your data.