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CS 132

Professor Hovik

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Final Project Reflection

As I complete this project, I found myself completely in love with web development and processes behind making a successful website. Though it for sure was one of the hardest things that I had to do for a class in terms of the amount of time I had to alleviate for, I really enjoyed every minute of it. As a way to build upon my past project from CS 121, a workout generator / logger, I decided to create a website version of it to really maximize its potential of being a useful application. My applications allow users to create an account (without proper authentication), so that they can experience the app with their own saved data. To keep track of who is using the app, I took advantage of using user's local storage to hold their userIds. This serves to allow multiple users to be able to use my application, with their specific workouts being saved through multiple sessions. With my app, users who are new to the world of fitness can use my application to generate a workout based on their equipment and goals. They are then able to save their generated workout, and if users want to do so, they are also able to save their own personalized workouts that they created. With this, they are then able to log their workouts on a calendar, including weights that they used, to visually show their consistency and progress.

I am very proud of how my website came out, but like I said earlier, it was for sure a very hard process. The hardest feature that I implemented had to be the calendar and the workout logger that uses this calendar. This is because I found myself having to create new and more backend endpoints that I did expect to make to aid its functionality. To approach this, I work on the calendar and the backend at the same time, meaning that I worked on the calendar's functionality until I hit a point where I had to create another endpoint. This was the part that really stumped me because, essentially, when I was building the backend, I did not know what I needed until I needed an endpoint. If I had another week to work on my project, I would for sure make my application more pleasing to look at, including images, icons, or even a better color scheme. This is because I spent most of my time handling the functionality of my application. When I was creating my website, I was writing notes to keep track on the things that i wanted to work on after I submit the project. This is because I found myself becoming really passionate about my application, so I for sure plan on working and building on the project over summer. These are some of the notes that I wrote down during development:

I want to make it so that users tell us their level, goals that align with the category within exercise.json, and the amount of time they want to work out.

i want to implement a more precise workout generator, but i will continue that later

As of right now, my project only handles one workout visually per date that is visually shown on

- Better organize the JSON as I feel like that it is a little messy.
- I let my family use my application without telling them how to use it to see what I was missing in terms of the website's flow and UI
- It only explains and provides details of how to perform the exercise once and never again
- Highlight / indicate what day we are currently on
- I began development with 10 endpoints in mind, but when development continued, I continually found myself having to create new endpoints to handle my needs. If I had more time to make the application, I believe that I could easily get rid of a handful of endpoints for necessary doing the same thing.
- An indication showing who is logged in for the day like "Welcome" on the top right
- I want to fix a small bug in which you have to refresh the page for it to visually show that a workout has been deleted from the calendar.

Overall, I found myself really enjoying the final project, as this is one of the most fun I had when it came to CS. I am very appreciative of Professor Hovik for allowing me to have this much time to work on my final project, as they really wanted me to be proud of my build. I for sure am very proud of my project because I actually see myself using this website instead of tracking my workouts on my phone note's app.