Availity Fullstack Homework Assignment

Questions:

1. Tell me your proudest professional achievement. It can also be a personal or school project.

   My proudest professional achievement would be the UX design process overhaul that I lead. At my current job the UI development teams are expected to perform UX design before implementing UIs. This usually involved quick wireframing without much customer interaction. As part of the effort I lead, the process was overhauled to be a multi-step process involving the gaining of a better understanding of the day-to-day needs and pains of our users through direct customer interaction to get feedback on the designs. This has led to better defined features, a higher quality product, and much more confidence that what the team is building is exactly what the customer wants.

2. Tell me about something you have read recently that you would recommend and why. (Can be a Github Repo, Article, Blog, Book, etc)

   A book that I've read recently that I would recommend is "Bubble or Revolution?" by Neel Mehta, Adi Agashe, and Parth Detroja. This book gives a great overview of both the computer science and the economics behind cryptocurrencies and blockchains. It goes over how currencies like Bitcoin and Ethereum work and why the ways they work make them so valuable. It also covers the topic of blockchain as a whole and talks about some of the projects being tackled by blockchain based startups as well as the ways that blockchains are being used in large corporations to optimize some of their existing processes. All in all, this is a great book to get a comprehensive overview of these technologies that could very potentially have a huge impact on tech as a whole.

3. How would you explain to your grandmother what Availity does?

   Availity is a company that connects doctors with insurance companies in order to make it easy to exchange information. They make it so that doctors more easily get the information they need so they can better focus on taking care of their patients and get paid more quickly. As an example, when you go to the doctor to get a check up, the doctor has to give information to your insurance so that they can get paid, and Availity simplifies this process.

4. Coding Exercise: LISP Code Parentheses Validator

   The code for this exercise can be found in the lisp-validator directory. To run the code, navigate to the lisp-validator directory in your terminal, run `npm i` and either run `npm start` to run the program or `npm test` to run the associated Jest test.

5. Coding Exercise: React Healthcare Provider Registration Form

   The code for this exercise can be found in the registration-app directory. To run the code, navigate to registration-app directory in your terminal, and run `npm i` and then `npm start`. The app can then be accessed at `http://localhost:3000`.

6. Coding Exercise: Enrollee CSV File Parser

The coe for this exercise can be found in the enrollment-files directory. To run the code, navigate to the enrollment-files directory in your terminal, and run `python3 main.py <PATH_TO_CSV_TO_IMPORT> <PATH_TO_EXPORT_DESTINATION>`. An example of running this program to import the `enrollment.csv` file in the code directory and output its results to the results/ directory would be:

```
python main.py ./enrollment.csv results/
```