

# Availity Fullstack Homework Assignment

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## 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 previously involved quick wireframing without much customer interaction. As part of the effort I lead, the process was overhauled into a multi-step process involving gaining a better understanding of the day-to-day needs and pains of our customer users through direct interaction and feedback on the designs. This led to better defined features, a higher quality product, and more confidence that what the team has built/is building is exactly what the customer requires.

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 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 existing processes. This is a great book to get a comprehensive overview of these technologies that could potentially have a huge impact on the technology space as a whole.

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

Availity is a company that connects doctors with insurance companies to make it easy to exchange information. Availity enables doctors to more easily get the information they need to 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 must 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 code 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:

```
python3 main.py ./enrollment.csv results/
```