

Availity's Fullstack Homework Assignment

We highly recommend that you use one of the free source code management platforms (GitHub, GitLab or BitBucket) when storing your code. Once you are ready for us to look at your answers, send us the link to your code. If you have any questions about the homework, please do not hesitate to ask.

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

Answer: When I undertook the React Native project I was introduced to a framework that was very different from Angular. Learning React itself took some developer time away in order to better understand how to begin the project. During that I went into full on learning mode and started researching React in off-work time hours. It was an interesting time because I felt like I had nothing to contribute for about a week while undergoing this learning process. The owner and other developers were both understanding and in the end I came out with a greater understanding of the React Native framework. The other developer was able to jump right in with tasks and the project was then completed within our estimated timeline.

2. Tell me about a book, blog, article or GitHub repo you read or liked recently, and why you like it and why you should recommend I do the same.

Answer: The only project I have been actively following is Golang from Google. I started learning Go a couple months ago and I think it's a very promising project. In the future, I could see it contending with Java in terms of enterprise development because of its inherent concurrency and it realistically bridges the syntax of how the code looks from Python to say C/C++. I think someone could very easily learn Go after learning Python and that's what makes me very excited about the project. I recently built a WebSocket server for a real-time chat application and the language was easy for me to learn and deploy on Heroku.

3. If you were to describe to a 7-year old what Availity does, what would you say?

Answer: Availity helps doctors connect with patients and helps manage their interactions. I think a 7 year old would understand that pretty well.

4. Coding exercise: You are tasked to write a checker that validates the parentheses of a LISP code. Write a program (in Java or JavaScript) which takes in a string as an input and returns true if all the parentheses in the string are properly closed and nested.

Answer:

<https://github.com/edowney29/interview-assignments/tree/master/Availity/lisp-validator>

5. Coding exercise: For frontend engineer: Healthcare providers request to be part of the Availity system. Using React framework, create a registration user interface

so healthcare providers can electronically join Availity. The following data points should be collected:

- First and Last Name
- NPI number
- Business Address
- Telephone Number
- Email address

Answer:

<https://github.com/edowney29/interview-assignments/tree/master/Availity/react-healthcare>

6. Coding exercise: Availity receives enrollment files from various benefits management and enrollment solutions (i.e. HR platforms, payroll platforms). Most of these files are typically in EDI format. However, there are some files in CSV format. For the files in CSV format, write a program that will read the content of the file and separate enrollees by insurance company in its own file. Additionally, sort the contents of each file by last and first name (ascending). Lastly, if there are duplicate User Ids for the same Insurance Company, then only the record with the highest version should be included. The following data points are included in the file:

- User Id (string)
- First and Last Name (string)
- Version (integer)
- Insurance Company (string)

Answer: Unfortunately due to time constraints and the speed at which I was told Availity was hiring I was unable to finish this part of the project.

Again, please let us know if you have any questions. Thanks!

-Availity Team