Hello! Congratulations on making it to this round of Cribl's interview process! The objective of this take home exercise is to demonstrate your design and implementation techniques for a real-world type of development problem. Please note that we are looking for solutions that demonstrate your unique development skills with vanilla JavaScript or TypeScript, so please limit external dependencies to a bare minimum and no frameworks please (eg. React, Angular, Vue, etc).

You should develop and submit code to Cribl via a GitHub project. Please commit and push code changes as you normally would - your thinking and working style is an important part for us to understand.
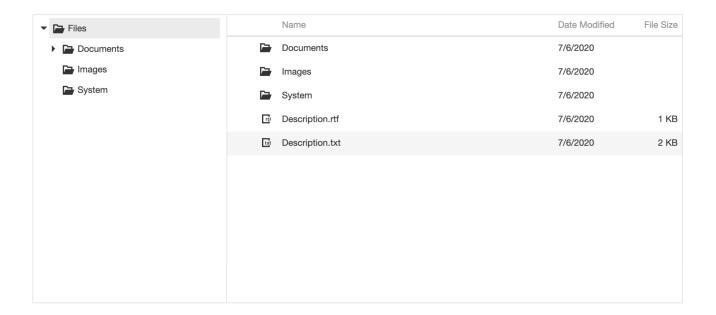
Problem statement

A customer has asked you for a way to provide a UI for exploring a file system with the ability to see directories and the files within them. They would like a sidebar (on the left) with the directory tree and a table (on the right) that shows the files within the directory.

Acceptance criteria

1. The component should be divided into two panes and display a folder tree in the left pane and a file/folder list in the right pane (see mockup below).
2. It should be possible to expand/collapse folders in the folder tree.
3. It should be possible to select a folder in the left or right pane and display the contents of the folder in the right pane.
4. Provide getters/setters for nodes in this format:

```
interface ITreeNode {
    type: 'file' | 'folder';
    name: string;
    modified: Date;
    size: number;
    children?: ITreeNode[]
}
```

Name	Date Modified	File Size
📁 Documents	7/6/2020	
📁 Images	7/6/2020	
📁 System	7/6/2020	
Description.rtf	7/6/2020	1 KB
Description.txt	7/6/2020	2 KB

Files
  ▸ Documents
  Images
  System

Note:
It's not required to create a live API for the data but if you're feeling like a challenge, be our guest! Also, a few simple Unit Tests to show your ability to test your code would be a nice bonus. Good luck and have fun!