

Engineering role

Coding test

Created by

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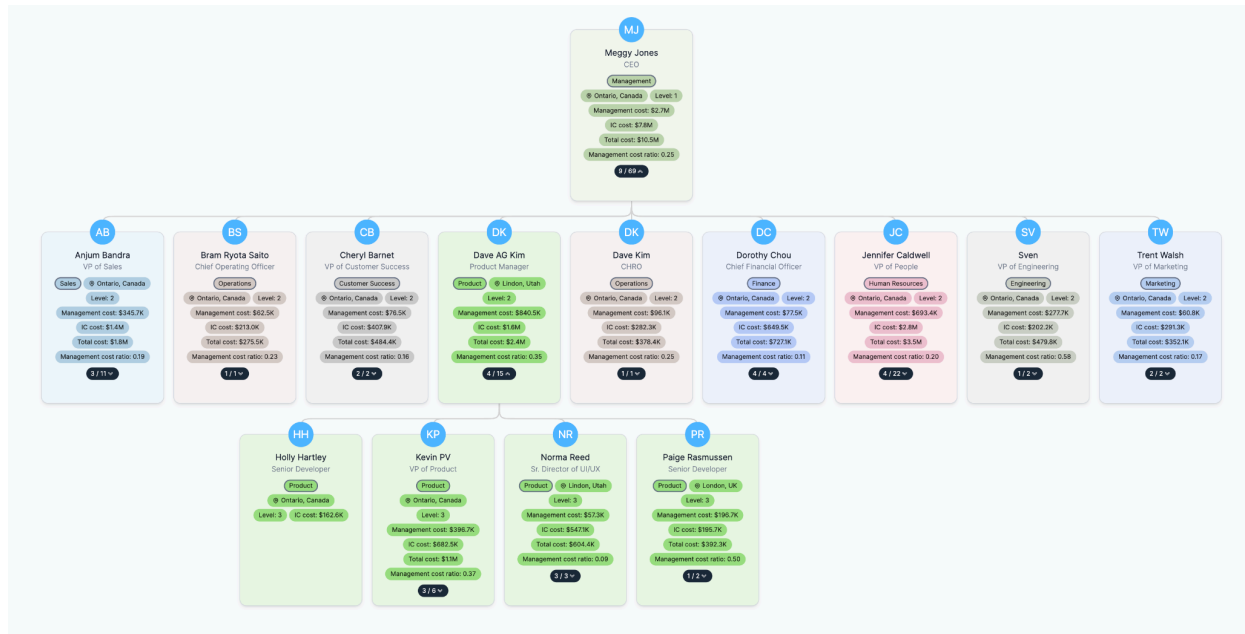
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Given a CSV file containing people data, create a responsive layout using Vue.js and Tailwind to display the hierarchy of people's reporting lines. The interface should allow nodes to be expanded and collapsed and display each node's number of descendants and non-leaf descendants.

Note

- When counting descendants, use memoization to store the count of each person's descendants instead of recursively counting the number of children each time.
- Fields like Management cost, IC (individual contributor) cost, management cost ratio, and total cost are calculated based on the salary field.
 - Management Cost is the recursive sum of the salary of descendants who have subordinates reporting to them.
 - IC Cost is the recursive sum of the salary of descendants who do not have anyone reporting to them
 - Total cost is the sum of the salary of every descendant.
 - Management cost ratio is the ratio between individual contributors and managers.
- Please do not upload your work to a public repository. Send us a zipped file or link to download.

Example



Download link: [SCR-20241127-slfy-2.png](#)

Required

- Vue
- Tailwind
- No Typescript

Data

- [Giga Corp \(40k\)](#)

What we look for

- Efficient calculation of the values. Ensure optimal value calculation is done per path.
 - You may find <https://d3js.org/d3-hierarchy> helpful.
- Clean UI. We are providing the example, but feel free to make adjustments. We want to see your taste ;)

How to send back

Share link to the hosted project via a product like <https://codepen.io/> or <https://codesandbox.io/> or similar. Something that we can click to open and just runs with the code on the side.

Looking forward to your submission :)