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Technical Assignment - Front End (ReactJS) Developer Position

Overview

You are tasked to build a small component for a employee directory application.

The envisioned directory application allows employees of a company to explore the company structure. A user of the application is able to see the names and team members of every supervisor.

User Stories for Tasked Component

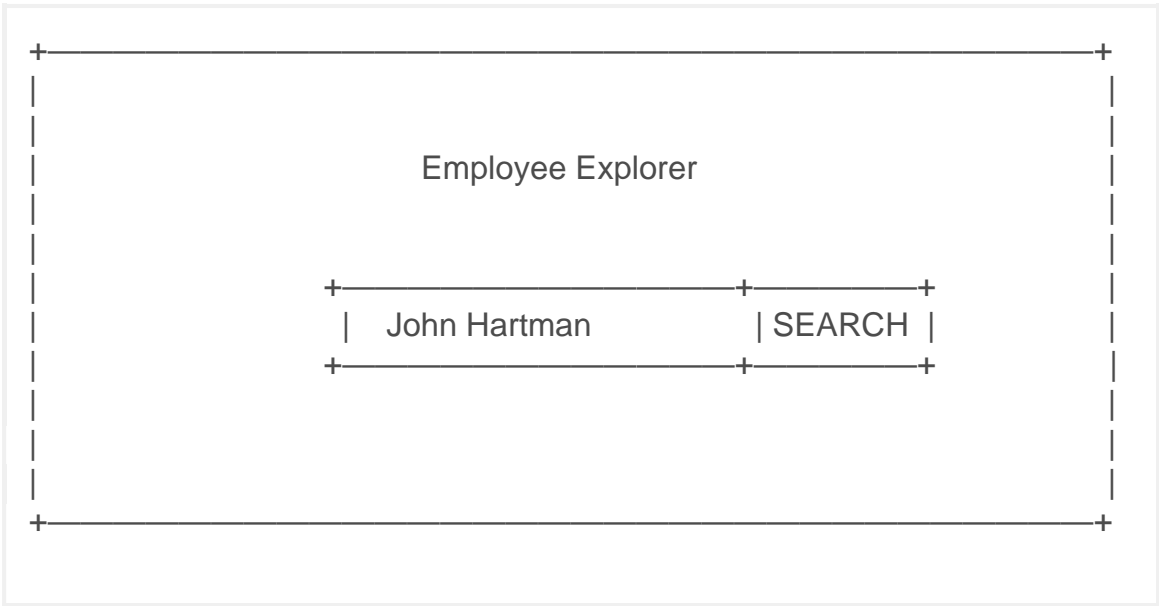| Story	Acceptance Criteria	Required
As a user, I am able to search for employees	User is able to input the employee name in the input field User is able to click search button	Required
As a user, I want to know for a given employee who works directly for that given employee (direct reports) and who indirectly works for that given employee **(all subordinates of structured tree)**	The overview page should include information about direct and non-direct subordinates **(all non-direct subordinates)** The overview shouldn't include duplicate employee names	Required
As a user, I am able to share or bookmark a link to the overview page of a given employee	Overview of given employee should be accessible through a direct URL. (http://app.com/overview?name={employeeName} or http://app.com/overview/{employeeName})	Optional

Technical Requirements

1) Build application for web or mobile using React or React Native.

2) **Only one endpoint is given:**

   • http://api.additivasia.io/api/v1/assignment/employees/{employeeName}

   • Returns direct subordinates (e.g. ['technical lead', { 'direct-subordinates': ['Samad Pitt', 'Leanna Hogg'] }];

   • To get all non-direct subordinates you have to use / http://api.additivasia.io/api/v1/assignment/employees/{employeeName} again and again

3) API all used employee names (for verification, do not use this endpoint): http://api.additivasia.io/api/v1/assignment/employees Your solution must work on latest version of Chrome.

4) Mock of layout is given under technical requirement.

5) Feel free to use any third party libraries or starter projects. Choice of third party libraries will also be part of evaluation.

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6) Your solution will be use in production.

7) Data-structures and <u>time-complexity of algorithms</u> is very important and will be properly evaluated.

8) Any improvements and additional features are welcome. (Help: "John Hartman" shall return 8 employees in overview)

Layout

Home Screen

```
+----------------------------------------------------+
|                                                    |
|                                                    |
|              Employee Explorer                     |
|                                                    |
|                                                    |
|        +-------------------+-----------+           |
|        |  John Hartman     | SEARCH  |           |
|        +-------------------+-----------+           |
|                                                    |
|                                                    |
+----------------------------------------------------+
```

Overview Screen

```
+----------------------------------------------------+
|                                                    |
|                                                    |
|              Employee Overview                     |
|                                                    |
|                                                    |
|      Subordinates of employee John Hartman:        |
|                                                    |
|      FullName1                                     |
|      FullName2                                     |
|      FullName3                                     |
|                                                    |
|                                                    |
+----------------------------------------------------+
```