

Welcome to the Technical Exercise stage of Stello AI!

Stello AI is an HR Technology startup building AI-enabled platform for Enterprises to manage their compensation practices. We create Compensation solutions for thousands of employees and business leaders. Please complete the below data structure, function and frontend questions on a separate Github link and send that to us, so we can better understand your technical capability. You can also just send on a Google document, whichever is easier for you.

1. Data Structures:

- a. Create a data structure that supports a flexible organizational structure.
Examples: Employee -> Manager -> Director -> VP -> CTO -> CEO
- b. Employee -> Manager -> Sr. Manager -> Director -> Sr. Director -> VP -> Sr. VP -> CTO -> CEO
- c. There could be any number of layers and roles.

2. Write Functions:

- a. Find_max_number_of_direct_reports() — This function should return anyone in this organization with the highest number of direct reports
- b. Find_common_manager(employee1, employee2) — This function should return the lowest level of common manager of any given 2 employees.
- c. For example, if two employees are under 2 completely different divisions that roll up to 2 different VPs, then the common manager for those 2 employees is the CTO.

3. Frontend Questions:

After implementing the data structure and functions above, please write frontend code for below:

- a. Write a view and control code to list all employees reporting to a manager
- b. Write code to list what their current salary is
- c. Write a function to allow their manager to update salary, and calculate the total change in department budget based on salary update