



CODE BRIGHT

Introduction

Why we give this assignment and how we assess this assignment.

This example highlights some of the key components of working at Code Bright. We use this assignment to determine the level of your coding level and where you might fit in our developer stack. There is no wrong answer or wrong way of doing this. Please do this by yourself.

Please follow the instructions to submit the assignment.

Background:

A service provider company has different departments and each department provides different services. The employee role hierarchy is the same throughout all the departments. An employee can be assigned to different roles in different departments. Here are the key notes about the company structure.

1. Department: Department can be a single entity, it is independent.
2. Role: Role always follows hierarchy. Here are the roles:
CEO→COO→GENERAL MANAGER→MANAGER→SUPERVISOR→STAFF
There could be many more roles after this.
3. Employee: Employees can be assigned to multiple departments with different roles. E.g. if EMPLOYEE 1 has been assigned to DEPARTMENT 1 with role MANAGER. The same employees can be assigned to another department with a different role.

Here is the organogram of the company [Organogram Image](#)

This is just an example. Here you can find organograms for only two departments but there can be more. You can notice that EMP-1 is the CEO in Department A but General manager in Department B. Another example: EMP-30 is Supervisor in Department A but is Staff in Department B. This way an employee can hold different roles in different departments.

Solution:

You need to build a login system where an employee will login using their username/email password along with the department they want to log into. The fields could be the following:

- Email (Text input field)
- Password (Password input field)
- Department (Dropdown select field)

After login show an organogram like diagram where the logged in employee can see all the employees under them in the role hierarchy. For example, If a Manager logs in, the diagram will show only Supervisors and Staffs under that Manager.

Task To-Do:

1. This task may take up to between **5-8 hours** and should be done in **object oriented PHP (7.x/8.x)**.
2. **NOTE: Please do not use any existing framework such as Laravel, Symfony etc.**
3. You have to design the database, make relations among them and code the solution.
4. Optional:
 - a. Write unit test case if you think it is required
 - b. Write some expectation classes if you think it is required

Deliverable:

1. Full functional code.
2. Code should be well commented
3. Your updated sql file should be exported and saved into the sql folder.
4. Profile whole workable code including vendor folder. Just zip the whole workable organogram folder and submit the solution.
5. How to submit? Upload it to your Google Drive and share the link in the email.

If you have any question please send to career@codebright.xyz and cc russel@codebright.xyz