

Capgemini test task

Table of Contents

- [1. Tasks](#)
- [2. Requirements](#)
- [3. Advanced \(Optional\)](#)

Main goal: Build application to manage some random company employer and departments

1 Tasks

1. Design and build Employer as part of company Fields:

- first name
- last name
- age
- job
- salary
- bonus
- total salary (salary + bonus)

Methods:

- apply_{bonus}

2. Design and build department as part of company Fields:

- name
- users

Methods:

- display employers in department
- display departments

3. Add ability to add manage employers (create, apply bonus)

4. Add ability to manage department (add, remove, apply bonus to each employer of department)

2 Requirements

- User should be able to add employer
- User should be able to remove employer
- User should be able to apply bonus
- User should be able to manage employer to departments (Ops: add, remove, apply bonus)

3 Advanced (Optional)

- Build index to search employer in department using employer first_{name} or last_{name} (Rebuild index after modify operation)
- Ability to export employer invoice to text file

Date: 25-05-22

Author: @ilavriv

Created: 2022-06-03 Fri 14:52

[Validate](#)