JS Patterns

**DEADLINE:** 07/12/2020

## FOLDER STRUCTURE

|  |  |
| --- | --- |
| FL14\_HW10/ \*  ├─ task  ├─ homework/ \*  ├─ js/ \*  ├─ index.js \*  ├─ css/ \*  ├─ style.css \*  ├─ index.html \*  ├─ .eslintrc.js \*  ├─ mock.json | \*  - required |

## TASK

There’s a Resource Manager (next RM) position at Epam. RM is a developer and a manager at the same time. RM owns a pool of developers some of which may also be RMs and have their own pools.

A pool is a group of developers with an RM on top.

Basically, this is a simple tree-like structure:

A picture containing clock

Description automatically generated

Let’s imagine, you’re the top RM and need to keep track of all of your direct or indirect subordinates.

* Implement a simple UI to display 3 different tabs**: All Employees / All Units / Warning Employees**
* Take mock file with data from *mock.json*
* All Employees tab: Tree-like list (table) of all the Employees with RMs highlighted
* All Units tab: Tree-like list (table) of units with average data by unit (all employees)
* Warning Employees tab: List of employees selected by a specific criterion (to be chosen on your own, e.g. performance is low and salary is above average by pool)

**HINTS:**

* Use **Composite** **pattern** to build employees trees
* Try to use **Strategy** **pattern** to make different selections of employees
* Don’t pay too much attention to the UI part, the main task is **patterns**

**RESTRICTIONS**

* Adding **task/** folder is forbidden. Do not push it to repository. (Only **homework/** folder should be pushed)
* Do not use any external libraries

## BEFORE SUBMIT

* Code should be clean, without comments, readable, and tested
* Make sure your GitLab folder structure meets folder structure from this document (without **task** folder)
* Use linter :

- In order to use npm package manager you should install nodejs (https://nodejs.org/ )

- Install eslint to check your code (npm install -g eslint)

- open a terminal (or cmd)

- run eslint (i.e. eslint ./js/task1.js)

Code should be without ‘errors’

## SUBMIT

* The **FL14\_HW10** folder without **task** folder should be uploaded to GitLab repository “**FL-14**” into **master** branch.