Customer Engineering Recruitment Task

We would like to understand your problem analyzing and solving skills. There is no a single answer and solution. So try to put your own style and understanding on your solution.
You might choose and implement which ever library, SDK, etc you want. Please be careful to use SOLID principles and put down a clean code on your solution.

Problem:

A customer wants to have a solution to list out all the branches information he has on a view. Branches has latitude, longitude, name, full_address, branch_id and phone. Owners of the company should be capable to list out every branch and edit them. Employees can only view and list.

PART 1.
1. Create a use-case diagram for the system.
2. Create a database diagram for the system.
Note : You can use https://draw.io for this task.

PART 2.
1. Build a MySQL server on a virtual machine via docker.
2. Build a NodeJS server on a virtual machine via docker.

PART 3.
1. Develop a back-end solution using NodeJS
2. Develop a front-end solution using ReactJS (Redux is a plus)

We thank you for your effort and wish the best for you.

Regard