

Backend development task

Introduction: Welcome to the XYZ Corporation.

Help HR manager Ana get a grasp of her XYZ company's hierarchy! Every week Ana receives a JSON of employees and their supervisors from her demanding CEO Chris, who keeps changing his mind about how to structure his company. Ana wants a tool to help her better understand the employee hierarchy and respond to employee's queries about who their boss is. Can you help her?

Ana's initial requirements were the following:

1. I would like a pure REST API to post the JSON from Chris.
This JSON represents an Employee -> Supervisor relationship that looks like this:

```
{  
    "Pete": "Nick",  
    "Barbara": "Nick",  
    "Nick": "Sophie",  
    "Sophie": "Jonas"  
}
```

In this case, Nick is a supervisor of Pete and Barbara, Sophie supervises Nick. The supervisor list is not always in order.

2. I would really like it if the hierarchy could be stored in a relational database (e.g. H2) and queried to get the supervisor and the supervisor's supervisor of a given employee. I want to end the name of an employee to an endpoint, and receive the name of the supervisor and the name of the supervisor's supervisor in return.
3. I would like the API to be secure so that only I can use it. Please implement some kind of authentication.

What we expect from you:

1. Write a small and simple application according to Ana's specifications, no more, no less.
2. Provide an archive containing the code, without any dependencies or irrelevant code (boilerplate, etc.), but including the .git folder (best would be to have a commit history that represents your natural working process - so, if possible, no history rewrite/rebase).
3. Clear and easy installation instructions (think about the reviewers!). The less step we have to do to get this running, the better. If we can't get your app to run, we won't be able to review it. :(
4. A set of working unit/functional tests to cover all the use cases you can think of.