

Organization Tree Programming Test

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You are supplied with the following:

- A json that provides an example of an Organization –a list of Employees and their respective manager.
- A [swagger specification](#) for the REST API that would allow CRUD on the Organization

You are to implement that REST API using your language of choice. The core problem **we'll be looking at closely** is the implementation of **building the organization tree** –

i.e. the GET /employees/{employeeId}?includeReportingTree=true

When includingReportingTree is true, then the directReports property would essentially a tree of everyone that eventually report to the given employee. For example if the employee is Bruce Wayne and includeReportingTree is true, then we will get back in the directReports a tree that would include John Stewart that would have directReports that would include Hal Jordan that would have directReports that include Guy Gardner.

Feel free to complete partial of the REST API – if implementing only a subset of the REST API will give you more time to showcase more of your skills. Thus – we give you this order of priority below. At minimum you need to implement the highlighted portion:

GET /employees

GET /employees/{employeeId}

GET /employees/{employeeId}?includeReportingTree=true

POST /employees

DELETE /employees/{employeeId}

PUT /employees/{employeeId}

The Organization data needs to be in memory (no database, no files) – pick carefully the data structure you would use to store the Organization data.

We look at simple, clean, readable, and elegant code. If you can throw in some Unit Test, that would be great as well.

The more you can 'wow' us – the better. However, don't lose sight of the core problem presented above.

The solution needs to be **self-contained**, and has **everything we need** to run the application. Provide a Readme.md (markdown file) – that would allow anyone **to follow the instruction** and **run the application** (it is fine if there are packages to be downloaded from the internet).