

Job Application Assignment

Back-end Developer

12 juni 2019



Functional Requirements

Develop a backend API application where you can list members based on their name, company name and office address. You should also be able to get, patch, update or delete members by id.

When a member is returned from the API, the following information should be returned: first name, infix, last name, photo, company name, job title, company photo, company address.

Technical Requirements

The API should accept requests using the REST methodology and naming convention. The API methods should accept GET or POST parameters, depending on the type of request. The backend API application validates all incoming parameters and gives appropriate error messages in case the API is accessed incorrectly.

The assignment should be delivered with source files and instructions for running the backend API application. It should also make use of the following technologies:

Programming Language	Python
Programming Frameworks	Django, Django Rest Framework
Database	PostgreSQL

Extras

Expand the API with the following functionality:

Authentication	Use OAuth 2.0 to get access tokens and refresh tokens. The list method should be public, but all other methods should be protected.
Authorization	Use permission based system for more control over access to protected resources. A user should only be able to get, update or delete members from their own company. An admin user should get full access.
Companies	Create a foreign key relationship between users and companies. The company API should get it's own list, get, patch, update and delete methods. It should also be possible to filter the member list method based on a company id.

