

Back-End Technical Test

Bimedoc has a directory of french health care workers. It is accesible with an API at

<https://6nlw6lwcmf.execute-api.eu-west-1.amazonaws.com/dev/?q=<search-tearm>>

where <search-tearm> is a lookup term to filter the results. This directory is saved in a AWS cloudsearch instance and can be queried through an api gateway. The gateway has query params that can add a better filtering to the query. Each query param is linked to a cloudsearch parameter

more information about building up a query : <https://docs.aws.amazon.com/cloudsearch/latest/developerguide/searching-text.html>

This api can use the following query_params:

query param	comment
q=	cloudsearch parameter q
fq=	cloudsearch parameter fq
q.options=	cloudsearch parameter q.options
return	cloudsearch parameter return
size	cloudsearch parameter size

List of all cloudsearch parameters : <https://docs.aws.amazon.com/cloudsearch/latest/developerguide/search-api.html>

In one result, you will find information about the healthcare worker as well as the organization he/she's working in. A healthcare worker can belong to one or more organizations (part-time in 2 hospitals for example).

An entry in the directory can contain the following keys (non-exhaustive):

Key	type	comment	Type of information (personnal /organization)
activity_segment_code	int		organization
activity_segment_name	string	type of activity of the organization	organization
bimedoc_client	bool		both
building_number	int		organization
city	string		organization
email	string		personnal
finess	string	organization id number in french healthcare system	organization
finess_justice	string	organization id number in french healthcare system	organization
first_name	string		personnal
gender	string		personnal
last_name	string		personnal
phone_number	string		personnal
postcode	string		organization
profession_code	string		personnal
profession_name	string	the function of the health care worker in the organization.	personnal
registered_name	string	organization's name	organization
rpps_number	string	health care id number for a health care worker in french healthcare system	personnal

Tasks :

1- Create a django + DRF project with at least the following models:

- Organization
- HealthCareWorker

You can add as much models as you need.

Please note that:

- a healthcare worker can be linked to one or more organizations
- an organization can be linked to several healthcare workers

2- Implement an API including the following endpoints :

- **Directory search:** this endpoint takes an input `<search-team>` and then lists the results from an internal call to the directory GET - `https://6nlw6lwcmf.execute-api.eu-west-1.amazonaws.com/dev/?q=`
- **Organization / user creation:** this endpoint creates the organization and the user that has been selected within the search results. I can select only one entry from the directory.

Your endpoint must comply with the following rules:

- If the organization already exists, it must not be created
- If the healthcare worker already exists, it must not be created but simply linked to the correct organization. A new organization is created if it doesn't exist yet
- The `rpps_number` is the unique identifier of a healthcare worker
- The `fitness` is the unique identifier of an organization
- A `name` field is mandatory in the organization object, in addition to its `fitness`
- The fields `last_name`, `first_name` and `profession_name` are mandatory in the healthcare worker object, in addition to the `rpps_number`

- **Organization / user listing:** this endpoint lists all the organizations and their workers registered in the database

Submission:

- You are free to name the URI of your endpoint as you wish
- We will run your project locally. You must include a file to install your dependencies and a [README.md](#) file explaining how to properly run it and how to use the endpoints
- Please send us the Github/Gitlab link to clone your repo
- Your project should contain tests
- Your commits must represent your development process properly
- Do not hesitate to add anything you find relevant to the project
- Do not hesitate to email xavier.emmanuel.moreau@bimedoc.com if you need explanations