



## Backend Developer Task

### GitHub-powered Recruiting Tool

#### Goal

- Develop a REST API to discover, manage and review tech candidates, using GitHub API to find them. The objective is to develop a service that allows the discovery of possible candidates by their location and code skills and the selection and revision of the ones that seem relevant for some job position.

#### Rationale

- It helps us understand what to expect from you as a backend developer. How do you write production code, how you reason about API design and your ability to create communication between multiple API services.

#### User Journey

- As a user, let's assume that my company has 4 job positions available (Frontend, Backend, QA and Data Analyst) and I want to find people that may be suitable. So, as a consumer of this API I want to search for people until I find someone that seems suitable for one of these positions. Once I do, I want to save that user and set the position he is most adequate for, alongside other characteristics. At any time, I want to see all the users I have already reviewed.

#### Requirements

- Develop a REST API to achieve the following features:
  1. Search GitHub users by location, repository language and popularity (number of followers);
  2. Review candidates by saving a specific user and setting the following characteristics:
    - Job category (Frontend, Backend, QA, Data Analyst)
    - Skill level (Junior, Mid-level, Expert)
    - “Fit for job” scale (1-5)
    - Commentary note (free text).
  3. List the saved and reviewed candidates, their GitHub info and repositories.
- All the requests must be authenticated;
- Develop as many requests as you find necessary;
- There is no need to develop any user interface.

#### Deliverable

- This task should be implemented in Java and the deliverable must include the instructions to setup and run the project locally.
- You must provide the API documentation.

#### Resources

- GitHub Api: <https://developer.github.com/v3/>
- GitHub User Search: <https://help.github.com/en/github/searching-for-information-on-github/searching-users>

#### Code and project ownership

- This is a test challenge and we have no intent of using the code you have submitted. This is your work, and you are free to do whatever you'd like with it.

#### Communication

- Feel free to ask anything. When in doubt, always err on the side of over communicating. There is no penalty for seemingly “silly” questions.