Backend Developer Recruitment Process

1. Screening by HR
2. Assignment (see chapter below)
3. Team Interview (assignment review and get to know)
4. Referral check/decision

1. Assignment

Task Description

Your task is to implement a Rest-API for our electric vehicle charging station management system.

Notes:

- You are free to choose any kind of PHP framework (the recommendation is Laravel).
- You are free to choose any kind of database that fits you the best.
- You must use the provided database schema in your implementation. However, feel free to add/modify everything as needed.
- Pay attention to the scalability of the API.
- In the same GPS coordinates, you can find multiple stations that belong to different companies
- One charging company can own one or more other charging companies.
  Hence the parent company should have access to all its children companies' stations, hierarchically. For example, we have 3 companies A, B, and C owning respectively 10, 5 and 2 charging stations. Company B belongs to A and company C belongs to B.
  Then we can say that company A owns 17, company B owns 7, and company C owns 2 charging stations in total.

The database schema you can use as starting point:

```
1. Station (id, name, latitude, longitude, company_id, address)
2. Company (id, parent_company_id, name)
```

Task 1

Your API should support CRUD for both stations and companies.

Task 2

Implement an endpoint that gets all charging stations.

- Within the radius of n kilometers from a point (latitude, longitude), your station list is ordered by increasing distance, and stations in the same location are grouped.
- Your list includes all the children stations in the tree, for the given company_id.

Requirements

- Your code must follow the best practices
- Test coverage
- API documentation
- Dockerize the project

Extra points

- CI/CD (deploy the project to a cloud service of your choosing)