Assignment: Matching Customer & Partner

Background

At Aroundhome our goal is to propose the right partner (a craftsman) to a customer based on their project requirements. Matching of customers and partners is a crucial part in our product. It determines how happy our customers will be with our partners and our partners with the quality of the customer we connect them with.

One product category that we offer is flooring. In this assignment, your goal is to propose the right partner based on the details of a customer's flooring project.

Your Task

Your task is to write an API that offers the following two endpoints:
1. Based on a customer-request, return a list of partners that offer the service. The list should be sorted by "best match". The quality of the match is determined first on average rating and second by distance to the customer.
2. For a specific partner, return the detailed partner data.

Matching a customer and partner should happen on the following criteria:
- The partner should be experienced with the materials the customer requests for the project.
- The customer is within the operating radius of the partner.

The data in the request from the customer is:
- Material for the floor (wood, carpet, tiles)
- Address (assume that this is the lat/long of the house)

The structure of the partner data is as follows:
- Experienced in flooring materials (wood, carpet, tiles or any combination)
- Address (assume that this is the lat/long of the office)
- Operating radius (consider the beeline from the address)
- Rating (for this assignment you can assume that you already have a rating for a partner)

The actual partner data should be stored in a database.

Please write the code in **Go** or **Ruby**.

You can decide how you want us to test the solution. Eg. Providing a SwaggerUI for your API endpoint, developing a simple UI or just a README file that shows how to call your service.

How to submit the coding challenge

For submitting the coding challenge to us please create a repository in your GitHub account, and share it with us once you have finished coding. Just send me the link and I will forward it to the team.

If you don't want to have a public repo, you can also make it private and share it with our team members. Just let me know and I will share their details with you.

If you don't use GitHub, you can also use another tool of your choice as long as you are able to give access to us or you can send a file with the code. You can choose whatever works best for you as long as our team members have a chance to get to look at your code.

We will review the code, and will then get back to you with feedback. In a potential follow-up session, we will dig deeper with questions. Have fun! We look forward to your solution. 😀