YellowDog Frontend Engineer Candidate Assessment

Hello,

At YellowDog we hire bright, highly skilled and motivated technologists who want to work on some of the most pressing technical challenges facing our industry today.

We ask candidates for our technology roles to complete a short competency-based exercise. It helps us to better understand both skill levels and ability to cope with open ended requirements. There is no 'right' answer to this challenge. Please read the instructions closely. In places they are intentionally ambiguous. We wouldn't want you to spend more than 8 hours on this, but you might do it in a much shorter time too. We will be assessing it based on:

1) Understanding of the core requirements: Did you grasp what we were trying to achieve? How did you manage ambiguity?
2) Clarity of the solution: Can other people understand how you achieved a solution?
3) Performance: Did you produce an efficient solution?

Assessment

Step 1 - Configuration

Deploy and run the YellowDog Contacts application and familiarise yourself with it.

Step 2 – Frontend Development

Using the provided contacts application as a REST based service, develop a frontend application using the framework of your choice. We use VueJS 3 at YellowDog and prefer that, but would accept a solution in React or Angular. We'd rather see something novel and evidence you can work with REST than learn VueJS.

A user must be able to:	**A contact has the following information:**	**An address has the following information:**
• Create new contacts • Visualise the overall dataset in the application. Do something unique, novel, show us your skills. It could be a table, a pie chart, something else.	• A first and last name • Optionally, a home address • Optionally, a work address	• A type (work or home) • Optionally, a house number • A street address, city and postcode.

Short Report

Please report back with 1-2 pages which:

1) Clarify any assumptions you made whilst building the solution above.
2) Explain any questions would you have asked if you'd had the opportunity.
3) Explain where the challenges arose in building this application, both from a design and development perspective.
4) Explain how you would extend the solution with more features had you had more time.
5) Describe how you would extend this solution to also address security and maintainability.

Submission

Please submit your code and screenshots from it along with your report. Your submission should be as a single zip file sent to alan.parry@yellowdog.co, or a web link where we can retrieve it easily.