

Case assignment, Back-end developer

Paul Kirkaas

Case Assignment

Hi Paul,

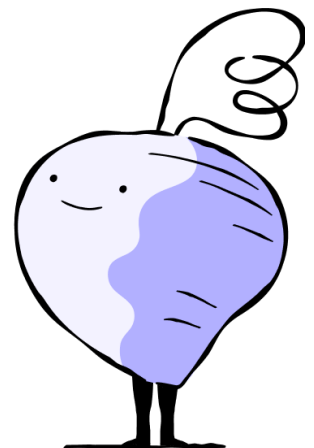
Thank you for a great process so far. We think you could be a really nice fit with our team, so here is the last major step in our hiring process, where we kindly ask you to give your very best shot at completing the enclosed case assignment and to give a convincing presentation of your solution to a couple of your new team members. Good luck creating your solution. We hope that the process will prove both fun, challenging and rewarding. Enjoy!

As you are well aware, the purpose of this case is to get a better understanding of how you think, work and what you would bring to the table if everything pans out.

We expect that you use about 8 hours for preparing your solution and presentation.

NB:

Treat this brief as if you have had the information from a client. In other words, do not expect every detail to be spelled out. We expect that you can make reasonable assumptions and create a convincing output based on the information available and any research that you may do in the process. If you are completely stuck however, always feel free to reach out for clarification :-)



This is a fictional assignment, made for recruitment purposes only

The assignment

When Signifly starts out a project, they assemble a project team. The project team consists of a number of Signiflyers. One of them is the project manager, and the rest are project participants. Signifly would like to make it easy to assemble a project team that matches the skills required in a specific project.

That is why, Signifly would like to build a team-planner, where they can compose a team. The team should be composed based on criteria such as:

- Expertise(s)
- Knowledge of specific tools/technologies
- Availability
- Education
- Years of experience in general and within Signifly

It is important that the skills needed for the project and the competencies within the team proposed align well. Signifly envision that some type of calculation can be done, to determine how good the fit is, and perhaps suggest the best suited Signiflyers to join the project.

After assembling the team, Signifly would like to show clients an overview of the team, including relevant skills and background, as well as contact information and a profile image.

Requirements

We expect that you:

- Choose technology that you think is suitable, and which you can publish online for demo
- Enclose a simple E/R-diagram for your database
- Build a minimal front-end – just enough to showcase what you have done
- Add tests where you think it is relevant
- Take note of any uncertainties that you would have liked to discuss in more detail with the client
- Include a guide on how to setup the project in the readme.md
- Include a guide on how to add / change data on the platform

Out-of-scope

For this assignment, don't worry too much about:

- Access control (for this example, just leave it open)
- Front-end styling (make it reasonably functional - doesn't have to be pretty)
- Access from mobile devices (this version will be used on desktop only)

What to deliver

Send us a link to your online demo and to your code on GitHub. Enclose any additional material as a .pdf- or .txt-file.

Evaluation

In the evaluating your solution we will focus on your ability to:

- Intuitively understand the problem and propose a relevant solution
- Prioritize the best features to add (value pr. dev time)
- Design a relevant data model for current (and future?) needs
- Build a number of solid API features with high quality code behind them
- Explore the possibilities of a clever matching algorithm and implement at a reasonable level of complexity
- Make some good and relevant choices along the way, to ensure that you deliver a stable and complete enough product for demo

It is important for us to see that you understood the assignment and took some good steps towards completing it. We expect that you can reason about your decisions and give a convincing presentation, which you would be comfortable showcasing to a client as a preliminary (or final...) product. And of course we always appreciate good storytelling, solid reasoning and clever thinking ;-)

Have fun with this small case. We look forward to seeing what you come up with!