

Reach, Engage, and Unite the Power of your Workforce

Summer 2024

Frontend Architect Case



Frontend Architect Case

This case is your opportunity to demonstrate your expertise in a Relesys context. Leading up to the case presentation, you will meet important team members and internal stakeholders, who will tell you about who we are, our challenges and basically what you would meet if you were to start as our Frontend Architect.

We hope that this challenge will give you a better insight into what it entails to join and build in Relesys on this booming adventure 🥳

The duration of your content should be something between 20 - 25 min

Duration:

1,5 hour.

This is your show, and you lead the way 🙌

Best of luck!



Agenda

- 01 Introduction
- 02 Background Info
- 03 Development Team Structure
- 04 Cases to present

Background information

The case is a tool for us to understand how you work and approach a task. We do not expect that you know everything about our product, but we expect that you use your knowledge from previous jobs to solve the task you are given.

The expected preparation time is approximately 1-2 hours.
Presentation time is approximately 20-25 minutes

The situation

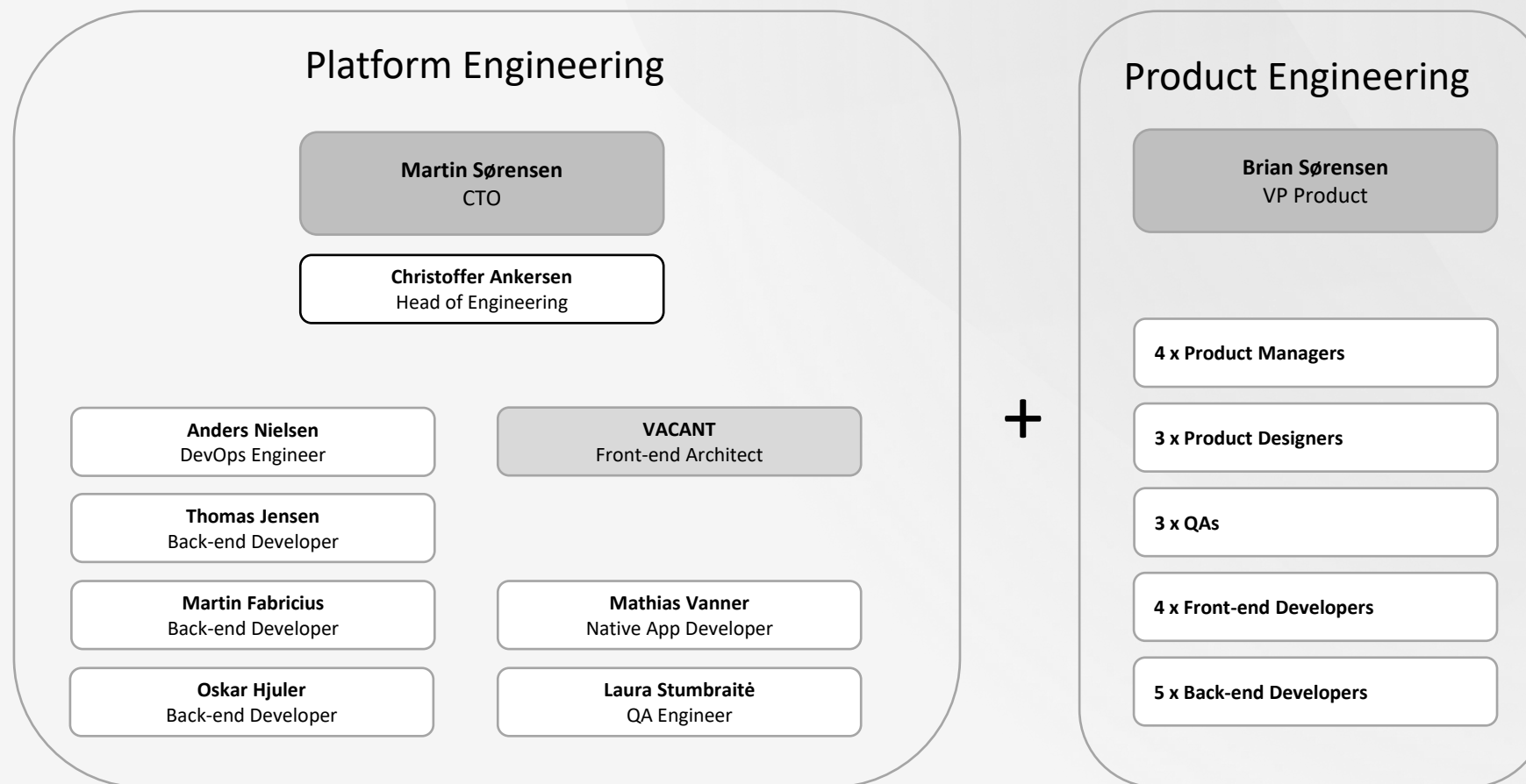
Relesys has a multi-tenant SaaS mobile web application with a front-end implemented based on AngularJS. The implementation was started in 2016 and has been maintained up until today.

The product management team has decided to implement a new front-end to gain the following benefits.

- Upgrade to a new and modern front-end framework, most likely Angular.
- Apply new technical tooling in the front-end development team.
- Ensure higher test coverage of the front-end code.
- Implement new design system to have closer alignment with the product design team.
- Ensure the application adhere to the EU accessibility act 2025.



Department Structure

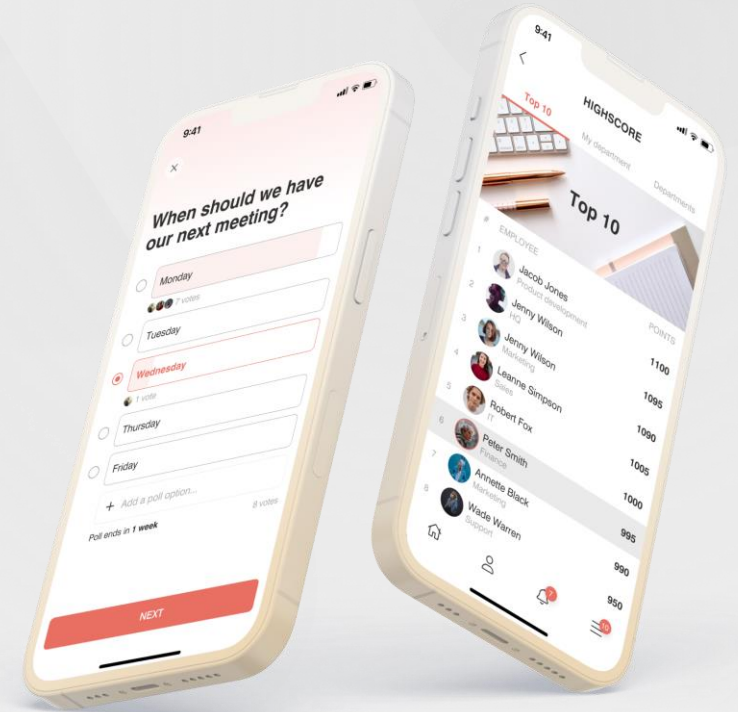


Case 01: What is a good FE-architecture?

The development team needs to finally decide on the target framework and architecture for the front-end app.

- What is important to consider when designing a new architecture for the front-end of the app? E.g.
 - Use of components?
 - State management
 - Routing?
 - Performance?
 - Responsive design
 - Scalability
 - Security
 - UX
 - Etc.

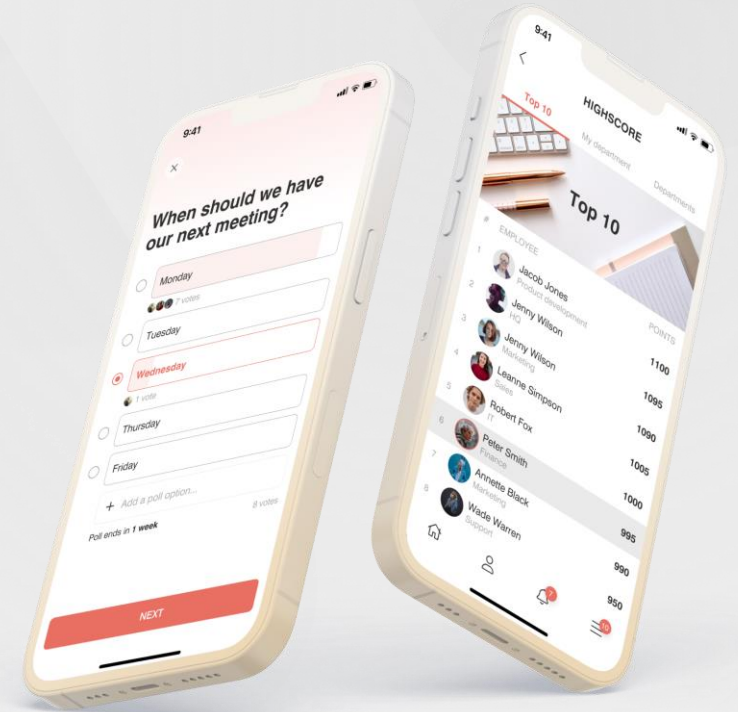
Choose 2-3 topics which you find relevant to present you view on.



Case 02: Apply the right tooling

We would like to take our front-end development to the next level. As part of executing the strategy to upgrade our front-end with a new architecture we should be supported by the best possible tooling in the team.

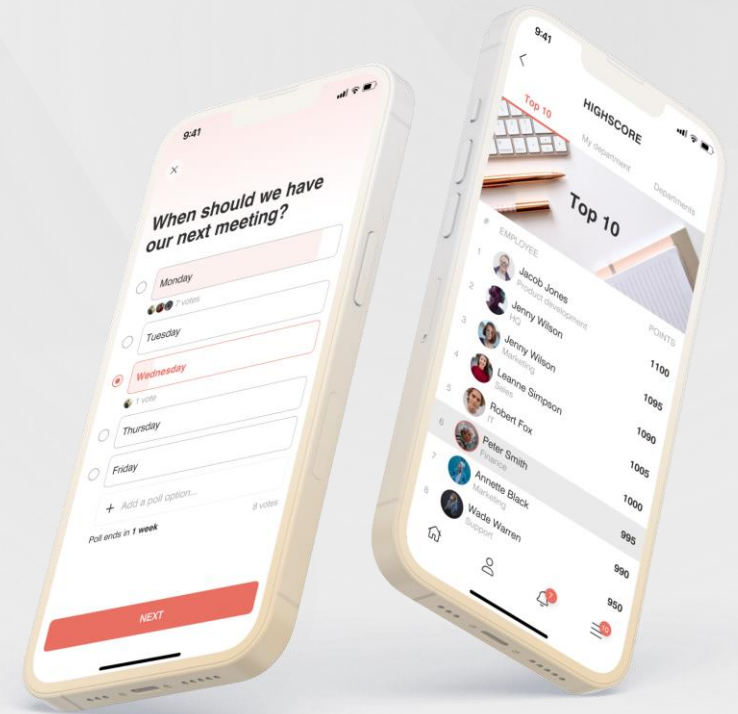
- Present the tools which you would recommend us to take into use covering areas like:
 - Ensuring a consistent UI.
 - Writing high quality code (syntax, patterns, less bugs).
 - Test automation
 - Etc.



Case 03: Test automation

The existing application has almost no automated testing of the front-end code. It is a high wish to ensure, that any new development involved with the framework upgrade will be covered with the relevant tests.

- Give your recommendation on how we would get started with test automation.
- Which types of tests would you recommend us to use and why?



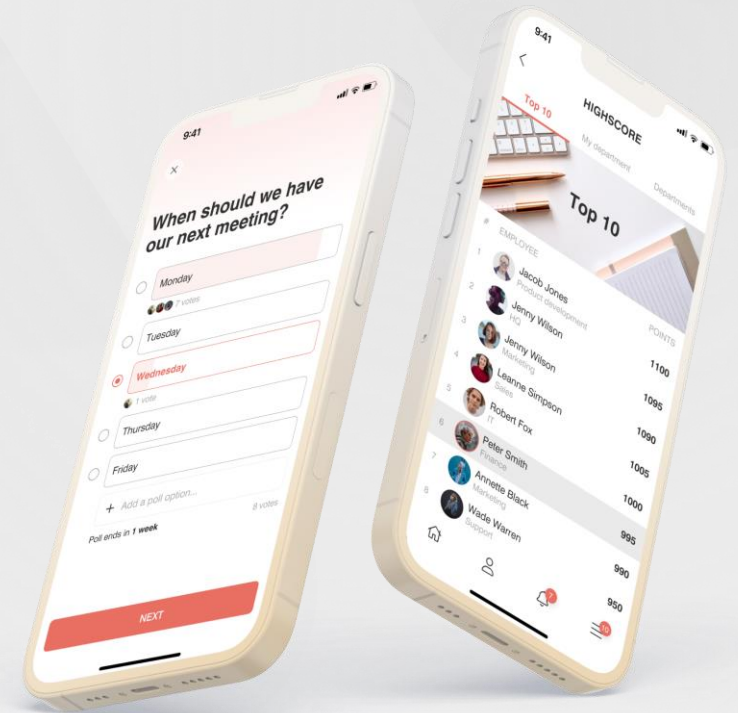
Case 04: Taking the lead

You will become responsible for technically defining our new front-end architecture and strategy. The work will include initial analysis, developing proof-of-concepts, make important decisions, documenting the principles of the architecture. (Duration: 3-6 months)

You will join a team of 4-5 people including a senior front-end developer, product designer, member from platform-team, product manager – all having broad experience with the product.

Following the phase of getting established and defining the strategy and architecture, we expect to scale the project by involving the entire front-end team to have them implement the plan in their day-to-day work.

- Present the steps you expect to take with the team within the first 3-6 months to define the architecture and strategy for our front-end.
- Once the strategy has been approved, how would you start executing?
- How would you ensure that all front-end developers adapts to the new strategy by following your lead?



See you soon and have fun!

We are really looking forward to seeing your case!

If you have any questions about the case or need additional information, then please do not hesitate to call or write to:

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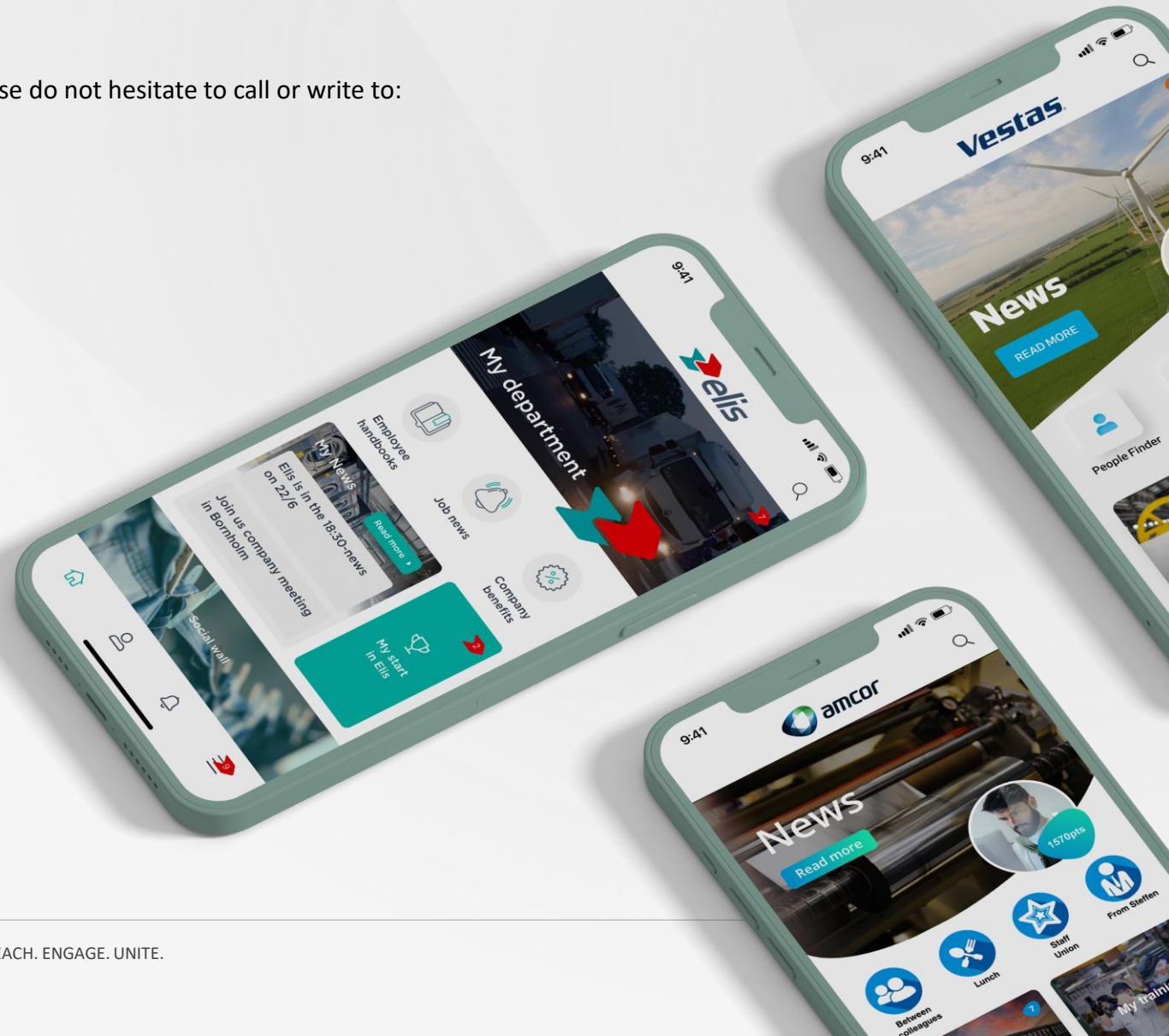
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See you soon!



Thank you

In case you have any questions, please don't hesitate to contact us.

