Technical Assignment - Software Development Gap Year Position

Dear applicant,

Thanks for applying for the Software Development - Gap Year position! We're excited to learn more about you and your skills.

We have a lot of really interesting projects in front of us on our roadmap that require great minds to solve and build.

We've got some truly ambitious projects lined up, and we're looking for sharp minds to help us solve and build them.

As part of the assessment process for the position, you'll be completing a technical assignment.

In this document, you'll find a general description of the task.

For any questions, please feel free to reach out.

We are looking forward to see how you'll solve the assignment,

- Spaak team

General description

Intro

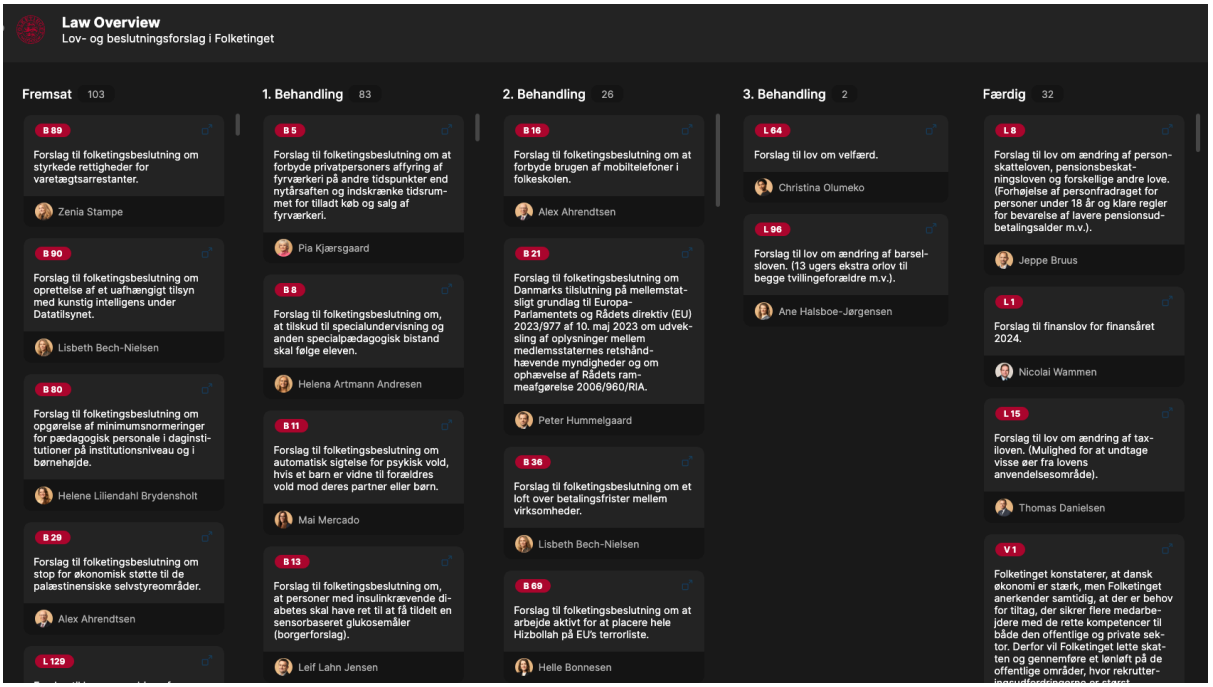
The purpose of this assignment is to assess your all-round capabilities to solve a problem using the tools of programming.

As we want an all-round impression of you, the task is quite comprehensive, but the important thing is not that the code is perfect, but rather to show that you have an all-round understanding of problem solving in a technical context.

The final product

The final product of this assignment is to build a "kan ban" board showing laws under proposal in the danish parliament during different stages in the political process.

Picture of how it looks in our platform:



Elements of the task

See beneath steps of solving the task:

1. Retrieve the data

First, you'll retrieve the data from the Danish Parliament API: oda.ft.dk

You should use the following endpoint: https://oda.ft.dk/api/Sag

And filter on the following values:

Typeid : [3, 5, 9]

Periodeid : 160

To query with several filters, read more about OData or just let ChatGPT help you. It should know how.

2. Store the data

We want to store the data in a table in PostgreSQL. For this task, you can just save the data in a single table.

3. Build a simple api to retrieve the data from the front-end

Build a simple api so the data from the PostgreSQL db can be retrieved in the front-end.

4. Build a simple front end to show the data in a kan ban

In the kan ban board, you need to make a column for each statusid that the “sag” has fx. 11 or 18.

In our platform, we have mapped several statusId’s to be included in each column, so that we only have 5 columns, but for this test, you can just skip that part.

You really don’t have to spend much time on the front end design. You can keep it at the bare minimum.

Other information

Other technical requirements:

- You need to code in Typescript
- You need to build it as a next.js project (front-end and back-end)
- Use Prisma as ORM
- Use PostgreSQL for DB
- tRPC (Optional)