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Frontend Engineer Technical Exercise

Introduction

You will write a web application that shows a web form to collect data from a user before signing up for a service. See the screenshot below for possible design and layout of requirements, but feel free to come up with your own design for the form if there are changes you think would be an improvement.

Requirements

You should at least:

- Build a GUI that:
    - Show one page of the form at a time.
    - Show the current page position of the form.
    - Validate the input fields upon submission of each page.
    - If there are any validation errors, show an error message in the form and block progress.
    - Console.logs the resultant data on the final page.
- Write tests and document for your code.

What we want to see

This test focuses on readability + extensibility. We expect you to be able to explain, without the need for you to fully implement in this test, how you would work on the following topics and other related ones:

- How you would change the configuration of a certain page
- How you would add new pages
- How you would implement going back a page

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Deliverable

The program:

- Can be written in any client-side programming language.
- Can make use of popular frontend libraries and frameworks. We use React and Redux in our applications so using these technologies in the test is preferable (unless you think we are missing out on the next big thing).
- Can make use of any existing open source libraries that don't directly address the problem statement (use your best judgement).
- Is compatible with the latest stable Chrome browser.

Please send us:

- The full source code, including any code written which is not part of the normal program run (scripts, tests).
- Clear instructions on how to obtain and run the program.
- Please provide any deliverables and instructions using a public Github (or equivalent) repository as several people will need to inspect the solution.

Evaluation

The purpose of this exercise is for us to see some of the code you wrote and should be proud of. We will especially consider:

- Overall user experience
- Clarity of instructions
- Code organisation
- Code quality
- Code documentation

We believe we can learn a lot from how you approach a small challenge like this and think it can be fun to write as well! Please do take your time when implementing the test. Feel free to ask any questions about it, about the role, or just about life at Tray.

Thanks for your time, and good luck on behalf of all the Tray.io Team!

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Form Mock-up

User	Privacy	Done

name: •

John Smith

role:

Software Engineer

email: •

email@example.com

password: •

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Submit

- Show that the current page is user

- Show label, field, and required info for each data element:

name - required
role - not required
email - required (check is valid email address)
password - required (check is > 9 length, has at least one number, has at least one uppercase + lowercase char)

- If there is an invalid email or password, or there is a missing required field on submission, block form progress and display the error messages in the form container

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User	Privacy	Done

☑ Receive updates about Tray.io product by email
☐ Receive communication by email for other products created by the Tray.io team

Submit

- Show that the current page is privacy

- Show checkbox + text for each data element

User	Privacy	Done

✔

Please verify your email address, you should have received an email from us already!

- Show that the current page is done

- Show completion screen of some sort

- console.log the final JSON data of the form