Front-end engineering assessment

Introduction

Our main product, Castor EDC, is a data collection and management tool for medical researchers. Our customers can collect the medical data they need for their research directly into our system. This collection is done through our web application or with an API we provide for custom, tailor-made apps and device integrations.

In this assessment, we ask you to build a health tracking app prototype, using React, to help us get a better idea of your approach and skill set.

The assessment - Build a small health tracking app

Imagine our clients want a health tracking tool for their research subjects, to track self-reported health measurements. Taking your own measurements has become commonplace with tools like MyFitnessPal or Apple/Google Health and is also becoming a more significant part of medical research every year. We'd like you to build a web application that allows research participants to track their:

● Blood pressure
● Weight
● Blood glucose level

Not everyone will take every measurement every day, so it should be possible to add these independently of each other. Every measurement should indicate the date it was made.

We ask you to create a web interface implementing some or all of the already designed components (see attachment) while filling in the blanks by yourself. Focus your efforts on the core part of the input form disregarding any of the basic UI elements like a border, logo, navigation and so on. There is no need for data to persist between page reloads.

Users should be able to view and edit the measurements they made in the past. In addition to that, they should be provided with the average of all entered values per measurement and an indicator to whether any entered value was higher or lower than the previously entered value.

Things to keep in mind

Please add a README.md file to explain your architecture choices and tradeoffs.

You are free to choose your preferred way of project setup, application execution, use of existing packages, etc, as long as you provide us with clear instructions on how to setup and execute it. Our only constraint is that you work with React. You can work towards a UI for whatever screen size you prefer; it does not need to be responsive.

We ask you to please do not post your solution publicly online.

Duration and Evaluation of the assignment

We recommend timeboxing your work to 4 hours. It's okay not to finish; it's not a typing speed test! Try to show your ideas and approaches across all used technologies and how they work together.

The assessment will be evaluated based on code structure, scalability, readability, documentation and knowledge/application of general programming principles. After the hand-in the assessment will be reviewed and you will be communicated the next steps.