You work as a developer at SportSee, a start-up dedicated to sports coaching. In full growth, the company will launch today a new version of the user's profile page. This page will allow the user to track the number of sessions completed as well as the number of calories burned.

This morning you receive a Slack from Charles, the Product Owner:

Well, today is the big day, we are going to work on the new user profile page of the site :). Leo (the designer) just sent me the Figma link of the mock-up. And here is the Kanban with the User Stories to integrate for this project. For this sprint, you have to integrate the US of the TODO part (the rest will be in the next sprint).

Later in the day, you receive an email from your Lead Developer, Antoine, giving you more technical details about the project.

Subject: Technical details on the profile page

From: Antoine

To: Me

Re,

Charles told me that he briefed you on the User Stories and the mock-ups, so here is more info on the technical side.

The goal is to redo the profile page with React. You will be in charge of developing the page.

As you could see, the project integrates graphics on the user's sport activity. I invite you to use either D3 or Recharts. However, be careful with D3, it's quite powerful as a library but sometimes difficult to use.

Concerning the CSS integration of the project, our Product Owner prefers that we concentrate on the desktop part for the moment. So you don't need to work on the mobile and tablet version of the project. We'll do that later. However, please make sure that your project can be read on screens of at least 1024 by 780 pixels.

Concerning the data, I have created a backend using NodeJS that you can find here. It will allow you to make your HTTP calls and to retrieve example data. Everything is described there: the installation steps as well as the HTTP calls that I set up.

For the management of the calls themselves, I invite you to use either Fetch or Axios. On the other hand, it is important that you make the calls outside the React components. You'll have to create a separate service that will take care of making the calls for you.

Moreover, I think it would be better to start the project with data that you have mocked. As soon as your project is functional, you can start integrating the API.

Finally, it is important that you document your project so that everyone can work on it :). So keep in mind:

All your documentation must be done in English.

The README file should only contain the installation steps and the project requirements. In this file, you will have to tell how to install and launch the project.

Your project will use React and you will inevitably create components. It is therefore important that you include Proptypes for each of your components.

Last point, the JsDoc. Apart from the life cycle methods (componentDidMount for example), it is important that your project has documented functions and methods.

I wish you a good development!

Antoine

That's it, you have all the necessary information and you can start developing the page.

Deliverables

Project source code versioned with Git and hosted on GiHtub.

The GitHub repo must be named with the following convention: FullName_#_DatedStart. The # corresponds to the project number on the path and the date must be in ddmmyyy format. For example, FrancoisLenotre_5_05032020.

Oral presentation

During the oral presentation, the evaluator will interpret the role of the Lead Developer. The oral presentation is structured as follows:

Presentation of deliverables (15 minutes)

Retrieving data from the API;

Creation and display of graphs;

Logical separation of the code into reusable components.

Discussion (10 min)

The evaluator will play the role of the Lead Developer. He will challenge you on the following points:

Managing asynchronous calls and promises;

The life cycle of a React application with asynchronous data;

JSDoc and technical documentation in general;

The use of the graphical library (discovery, getting started, etc.).

The evaluator will challenge the technical decisions you have made as much as possible, so you will have to be able to justify them and defend your work. At the end of the presentation, the evaluator will stop playing the role of the Lead Developer to allow you to debrief together.

<u>Skills</u>

Produce technical documentation for an application

Ensure the quality of the data in an application

Develop advanced graphical elements using JavaScript libraries

Interact with a web service