QEnergy

Frontend Developer Task

20.05.2022

IT-Dev Application Process

Task Description

Develop a responsive React (mini) application with 3 routes:

1. Login page

- Users should be able to log in with a username and password.

2. Main data page

- Users should see a table displaying the data about each wind park ("project") provided in the attached *projects.json* file.
- Users should be able to add a new project entry/row as well as edit or delete an existing entry/row.
- (Optional) Users should be able to search for values in the table.
- (Optional) Users should be able to filter the rows by project status, technology, country, and/or responsible people.
- (Optional) Users should be able to sort the data in each column by ascending or descending order.

3. Dashboard

- User should see a collection of graphs/diagrams illustrating the following key information from the table in the data page:
    - Project status distribution (ex. pie chart or other representation)
    - Timeline of acquisition dates over the past 20 years
    - Number of wind turbines per project
    - (Optional) Geographical distribution (number of projects per country)
    - (Optional) Number of kWs generated per project

Guidelines

- The application only needs to be a **static frontend application**, so there is **no need for any backend or DB interaction**. (I.e., Any edits to the data table only need to be displayed on the frontend, but do not need to persist if the page is refreshed, for example).
- Consult the attached *schema.xlsx* for more information about the project data in *projects.json*.

- Remember that the application should be **responsive** and include **simple routing** (for the 3 routes specified above).
- When styling your application, try to **adhere as closely as possible to our company's corporate design**. You may use our company's website as a visual identity guide: https://qenergy.com/en/
- You may use any **CSS, component, and/or state management libraries/frameworks** you see fit.
- Your code should be pushed to a **private online repository (GitHub or other)**, and the **application should be deployed** somewhere online (ex. using GitHub pages, Netlify Build, Heroku, etc.)
- The rest is up to you - feel free to be as creative as you like.

What to focus on

When reviewing your work, we will be particularly interested in:

- Your **design/UX decisions** and their implementation (user friendliness, aesthetics, creativity, interpretation of Q-Energy's corporate visual identity)
- **Functionality** of components
- **Sophistication, structure, readability, reusability** of the code