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Provide the answers to these questions in a called engineering_answers.md file in the Git Repository along with the web application test. The instructions to build and run the projects must be at the README.md file.

1. Web Skill Test

Provide the answers to these questions in a called engineering_answers.md file in the Git Repository along with the web application test.

JavaScript / Reactjs

- What are JavaScript Data Types?
- What is the use of isNaN function?
- Differentiate between Real DOM and Virtual DOM
- List some of the major advantages of React.
- How different is React's ES6 syntax when compared to ES5?
- What's Typescript, why use it?
- What's state management in React and what libraries would use for this?

Git

- What is the difference between pull and fetch commands?
- What is the difference between Git and Github?
- What is a branch?
- What is a pull request?

php / MongoDB

- What are php data types?
- How can php and Javascript interact?
- What is a Replica Set in MongoDB?
- What is a Transaction in a database context?

2. Web Application - Weather Mapping

a) Create an API using php (You can use Laravel, Yii 2 or any other framework you want) and MongoDB. This application must:

- Register and authenticate an user to access the other endpoints. The user must have an unique email address and the password must have at least 8 characters;
- The application must consult this API (<http://openweathermap.org/API>) to request weather data and save it to the DB;

- All endpoints must return an JSON response with status, data, message and HTTP code.

b) Create a ReactJS application to show information about the temperature of multiple cities, using the php API. The application must:

- Login and registration page;
- Have an input where the user can select multiple cities;
Show a map with markers for each selected city. When a marker is selected, the application must show a tooltip with the city information;
- Show a chart comparing the temperature of each selected city;
- Have a responsive layout;
- (*Bonus*) Extra points for using CSS animations;
- (*Bonus*) Extra points for using a state management library.