* **What is the purpose of the key value, which must be given to individual rows in a react-list**

The purpose of the key value is to uniquely identify each object/element so their identities are stable (meaning they can’t be confused for other elements with similar values).

* **It's recommended to use a unique value from your data if available (like an ID). How do you get a unique value in a map callback, for data without a unique id?**

One way is to use the ‘toString()’ method, or even to use the index value so when you map an array, each element is given the current index value as its key. The latter is not an ideal option however, and personally I have found that ‘toString()’ also doesn’t necessarily return a unique value.

A third option would therefore be combining values from an individual object, such as taking its name and adding the index value to it (e.g. “Poul2”).

* **What is the difference(s) between state and props?**

State is kind of like the current version of the entire application. It contains all current values that have been added to it, and those can be modified with the useState hook function, at which point the component from which the function is called is re-rendered.

Props are more like variables, be they arrays, objects, or just single numerical values or strings. They are passed to a component as arguments, and they cannot be directly modified (read-only), but they can be used to change the state of a component.

* **For which scenarios would you use props, and for which would you use state?**

Props are used when we need to pass data along to a component, such as an array that needs to be rendered as a table or an object whose values we want to print on screen. State is used when we need to change the state of an existing component, like incrementing a counter that already has a value.

* **Where is the only place you can set state directly as in:  this.state = {name: "Peter"};**

In a class component. We don’t really use those since they’re outdated now that hook functions have taken their place.

* **How should you set state all other places?**

With the useState hook function (more specifically, with the ‘setX’ function you can extract from useState via destructuring, where X is the name of the actual object you extract along with it, such as ‘members’ or ‘car’).