React: Mapping

React – avatars

The following exercise contains the following subjects:

- map
- Ajax
- Components

What we are going to build
We will build random avatars with a help of an API.

Our API
We are going to use this API (https://randomuser.me/) to display random avatars when the component mounts to the screen.

Instructions
1. Fetch at least 10 random avatars from the API
2. Get the relevant data you want from each avatar and save it to state.
3. Display all the avatars on the screen.
4. Have the option to filter over the avatars by their name.

Tip:
We are essentially filtering over an array of objects by the object's name value.

Extra tip:
Use the filter and include a method to achieve this.

Think like a React Developer

Components
What components should we create?

Tip:
A component for the input
A component for the button
A component that's **only purpose** is to map over the avatars
A component to display a single avatar

State
What components should hold the state?

Reusability
How can I make my components reusable? If I take that component and paste it into another project, I shouldn't need to modify the **component** itself at all.

Tip:
Different props
Here is a **[video demo](#)** of what we should build