MAPPING DATA TO COMPONENTS

ES6 - Map

Map -Create a new array by doing something with each item in an array.

```
In the sum of the sum
```

Another way of doing this is using for Each loop

```
const newNumbers = numbers.map(function (x) {
   return x * 2;
});
console.log(newNumbers);
```

But using map function makes it concise and easy.

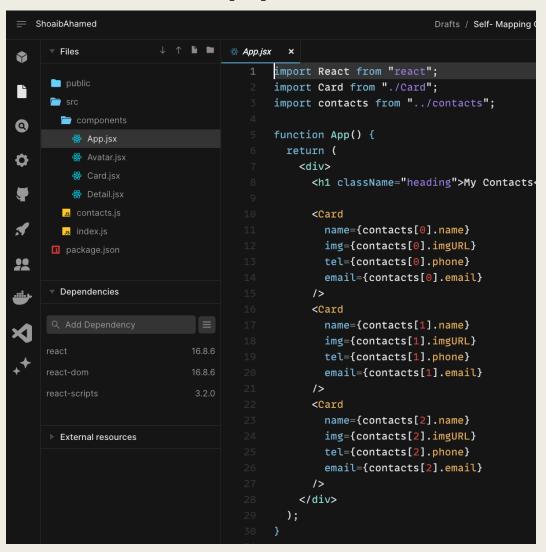
How to map data in react components

Codesandbox - https://codesandbox.io/s/students-mapping-components-forked-vd7vpx?file=/src/index.js

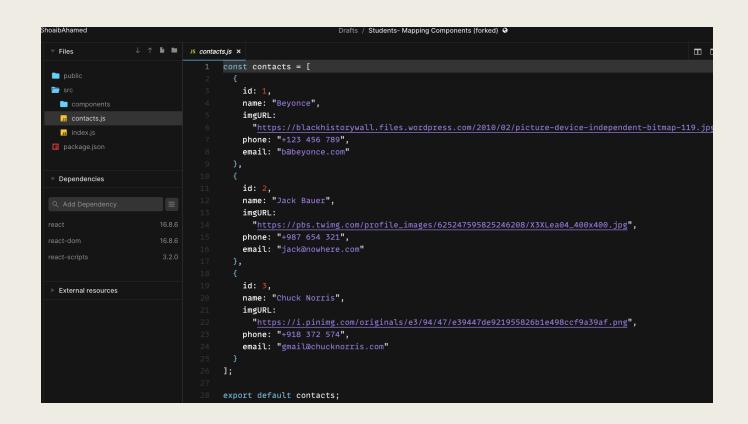
Check the App, jsx and contacts. js file in the directory.

- App.JSX has very repetitive code.
- In APP.JSX file we have card components and we are passing different custom props which comes from our contacts.js file.
- Looking at contacts[0], contacts[1] contacts[2], we understand it can be benefited from using a loop.
- We will learn about mapping those data into the custom components.
- By mapping data, we don't have create multiple cards!
- contacts.js has an array of JS objects with similar properties with different values.

App.JSX



Contacts.js:

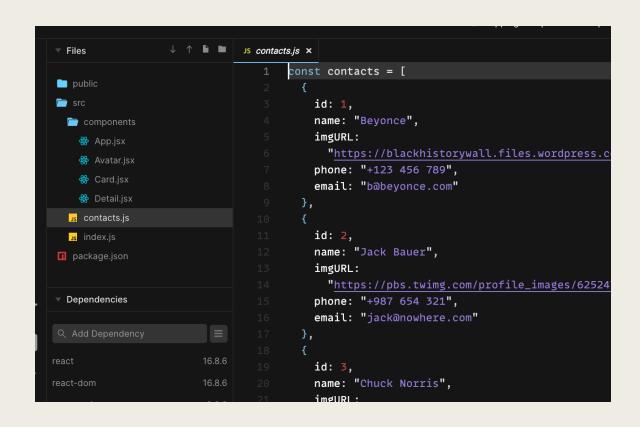


In App.jsx, comment out all the cards and then create a createCard() function and pass it to contacts.map()

```
<div>
  <h1 className="heading">My Contacts</h1>
  {contacts.map(createCard)}

  {/* <Card
    name={contacts[0].name}
}</pre>
```

contacts.js has id property



Note -

■ React creates virtual DOM and in order to efficiently render the components using a loop such as map function, we have to give those components a property that's called key. This key property values has to be unique(string/number).

Research and learn the following -

- Filter
- Map
- Reduce
- Find
- FindIndex
- Substring

Assignment -

- Go here https://codesandbox.io/s/students-mapping-components-practice-forked-l9w3r4?file=/src/index.js
- Your goal is create components, create props and mapping data to the components. Notice the emojipedia.js file in the directory
- // 1. Create Entry component
- // 2. Entry Component will need props to replaces hard coded data in App.jsx
- //3. Map through the emojipedia array and render Entry components. Don't forget to import.

