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Published in Level Up Coding

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Nov 28, 2021 · 3 min read · ✨ · ▶ Listen

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Let's Loop Data Inside a React Component

All the methods inside one article with sandbox code to play with

Today I am going to discuss one of the main doubts I faced when developing React apps as a beginner. I always had to StackOverflow and look at looping methods to get the values from a JSON response.

I thought of adding all the basic methods to loop inside a react component.

There are mainly 2 ways we get data from an API. The most common one is through a JSON array. Another one we use is looping inside a single JSON object.

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Looping through a JSON array object

This is the most common approach we have to deal with most of the time

```
1   export default function App() {
2     const people = [
3        { name: "name 1" },
4        { name: "name 2" },
5        { name: "name 3" },
6        { name: "name 4" },
7        { name: "name 5" },
8        { name: "name 6" },
9        { name: "name 7" },
10       { name: "name 8" }
11     ];
12     return (
13       <div className="App">
14         <h2>Json Array Object </h2>
15         {people.map((data, idx) => (
16           <p >{data.name}</p>
17         ))}
18       </div>
19     );
20   }
```

jsonarray is hosted with 🧡 by GitHub   view raw

we can use the `.map` to loop through the array and access each object element using template literals `{}`

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<div align="center">
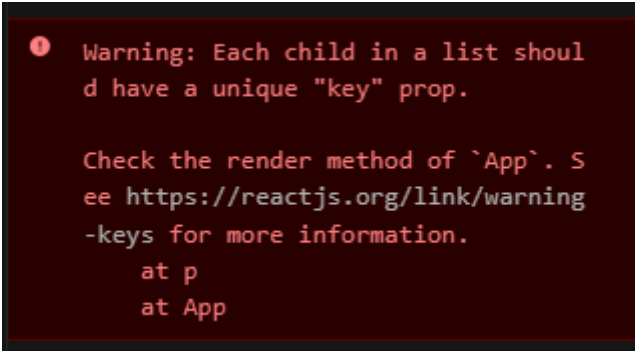
name 1

name 2

name 3

name 4

name 5

name 6

name 7

name 8

</div>

If you look at the console you will see the below warning in the console

```
● Warning: Each child in a list shoul
  d have a unique "key" prop.

  Check the render method of `App`. S
  ee https://reactjs.org/link/warning
  -keys for more information.
      at p
      at App
```

This warning is saying to add a key prop to each element. The reason is linked with the way how react identify the UI changes. The main reason react.js was created is its optimized DOM tree rendering. React use this unique key value to identify if there is a change in the list on each render. If value 1 is changed it only renders that value in the dom and updates it which makes react so fast in dom manipulation.

Let's add a key value like this

```
{people.map((data, idx) => (
<p key={idx}>{data.name}</p>
))}
```

method. Then we can create an array with all the key values of the object.

Then we can loop through that key values using `map` and get the values as shown below

```
{Object.keys(person).map((key) => (
<p>{person[key]}</p>
))}
```

Why map always

Because not like `foreach` or `for` loop. map() returns a new array. so when sending parameters to the return method inside the function map is used since it returns an array.

```
return([array])
```

for loops

We can use for loops outside of the return to create an array with needed jsx and add the entire array inside the return function

see the code below

```
let details = [];
for (const property in person) {
  details.push(
    <p>
      {property}: {person[property]}
    </p>
  );
}
```

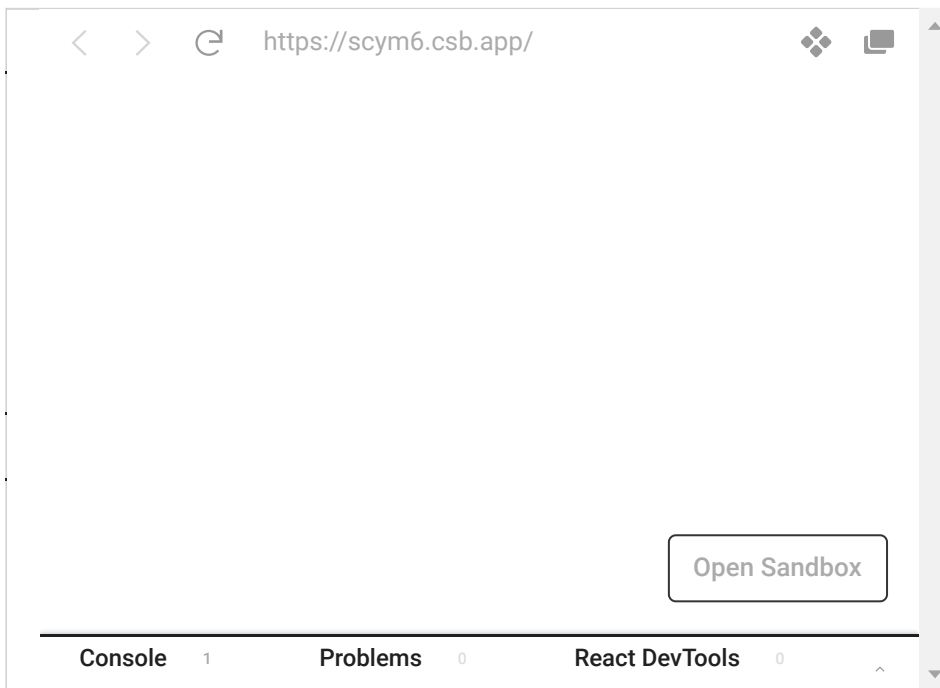we can add the error details inside the return like this

`{details}`

we can use any form of js array `while` `foreach` or any outside of the return. Generate the expected jsx and add it inside an array. Then use that array inside the return function.

The entire code is given below inside the sandbox to try and test

< > ⟳   https://scym6.csb.app/   ❖ ▢

Open Sandbox

Console   1   Problems   0   React DevTools   0   ^ ▼

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name 1

name 2

name 3

name 4

name 5

name 6

name 7

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