Stateful Example

In this example, we will set the state for owner component (**App**). The **Header** component is just added like in the last example since it doesn't need any state. Instead of content tag, we are creating **table** and **tbody** elements, where we will dynamically insert **TableRow** for every object from the **data**array.

It can be seen that we are using EcmaScript 2015 arrow syntax (=>) which looks much cleaner than the old JavaScript syntax. This will help us create our elements with fewer lines of code. It is especially useful when we need to create a list with a lot of items.

App.jsx

import React from 'react';

class App extends React.Component {

constructor() {

super();

this.state = {

data:

[

{

"id":1,

"name":"Foo",

"age":"20"

},

{

"id":2,

"name":"Bar",

"age":"30"

},

{

"id":3,

"name":"Baz",

"age":"40"

}

]

}

}

render() {

return (

<div>

<Header/>

<table>

<tbody>

{this.state.data.map((person, i) => <TableRow key = {i}

data = {person} />)}

</tbody>

</table>

</div>

);

}

}

class Header extends React.Component {

render() {

return (

<div>

<h1>Header</h1>

</div>

);

}

}

class TableRow extends React.Component {

render() {

return (

<tr>

<td>{this.props.data.id}</td>

<td>{this.props.data.name}</td>

<td>{this.props.data.age}</td>

</tr>

);

}

}

export default App;

main.js

import React from 'react';

import ReactDOM from 'react-dom';

import App from './App.jsx';

ReactDOM.render(<App/>, document.getElementById('app'));

**Note** − Notice that we are using **key = {i} inside map()** function. This will help React to update only the necessary elements instead of re-rendering the entire list when something changes. It is a huge performance boost for larger number of dynamically created elements.

