11. REACT Keys

React ***keys*** are useful when working with dynamically created components or when your lists are altered by the users. Setting the **key** value will keep your components uniquely identified after the change.

11.1.Using Keys

Let's dynamically create **Content** elements with unique index (i). The map function will create three elements from our **data** array. Since the key value needs to be unique for every element, we will assign i as a key for each created element.

Example: App.jsx

```
import React from 'react';

class App extends React.Component {

   constructor() {
      super();

      this.state = {
         data:[
            {
               component: 'First...',
               id: 1
            },
            {
               component: 'Second...',
               id: 2
            },
            {
               component: 'Third...',
               id: 3
```

```
                }
            ]
        }
    }

    render() {
        return (
            <div>
                <div>
                    {this.state.data.map((dynamicComponent, i) =>
<Content
                        key = {i} componentData = {dynamicComponent}/>)}
                </div>
            </div>
        );
    }
}

class Content extends React.Component {

    render() {
        return (
            <div>
                <div>{this.props.componentData.component}</div>
                <div>{this.props.componentData.id}</div>
            </div>
        );
    }

}

export default App;
```

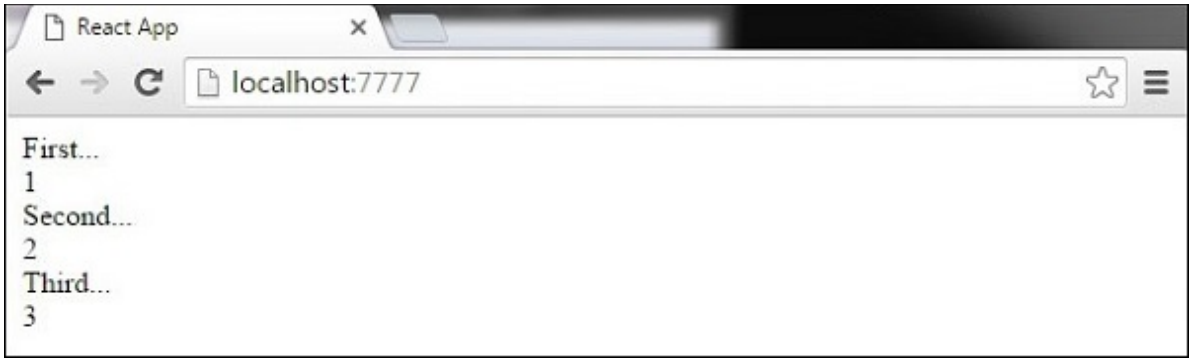
Example: main.js

```
import React from 'react';
import ReactDOM from 'react-dom';
import App from './App.jsx';

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

We will get the following result for the Key values of each element.

Output:



If we add or remove some elements in the future or change the order of the dynamically created elements, React will use the key values to keep track of each element.