DYNAMIC REACT

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Consider the following static list of components

```
import React, {Component} from 'react'
import ModuleListItem from
   '../components/ModuleListItem';
export default class ModuleList extends Component {
render() { return (
 ul className="list-group">
  <ModuleListItem/>
                       <ModuleListItem/>
  <ModuleListItem/>
                       <ModuleListItem/>
  <ModuleListItem/>
                       <ModuleListItem/>);}}
```

Where the components are

```
import React, {Component} from 'react';
export default class ModuleListItem
extends Component {
render() { return (
  Module 1
   <span className="float-right">
    <i className="fa fa-trash"></i>
    <i className="fa fa-pencil"></i>
   </span>
```

and render as:

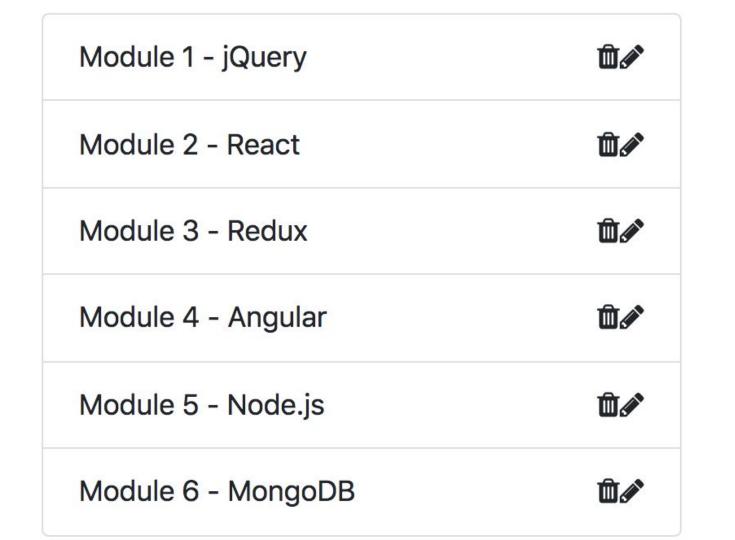
Module 1	
Module 1	Ö Ø
Module 1	Ö Ø
Module 1	Ü Ø
Module 1	Ö Ø
Module 1	

Let's parameterize the module's title

```
export default class ModuleListItem ... {
constructor(props) {
 super(props);
render() {
 return (
  Module 1{this.props.title}
```

Now we can pass the module's title as an attribute

```
export default class ModuleList
render() { return (
ul className="list-group">
 <ModuleListItem title="Module 1 - jQuery"/>
 <ModuleListItem title="Module 2 - React"/>
 <ModuleListItem title="Module 3 - Redux"/>
 <ModuleListItem title="Module 4 - Angular"/>
 <moduleListItem title="Module 5 - Node.js"/>
 <ModuleListItem title="Module 6 - MongoDB"/>
```



Let's render modules dynamically from an array

```
export default class ModuleList ... {
constructor() { super();
 this.state = { modules: [
   {title: 'Module 1 - jQuery', id: 123},
   {title: 'Module 2 - React', id: 234},
   {title: 'Module 3 - Redux', id: 345},
   {title: 'Module 4 - Angular', id: 456},
   {title: 'Module 5 - Node.js', id: 567},
   {title: 'Module 6 - MongoDB', id: 678},]};
```

We can build the list dynamically

```
renderListOfModules() {
 let modules = this state modules
   .map(function(module){
  return < Module List I tem
     title={module.title} key={module.id}/>
 });
 return modules;}
```

And then replace the hard coded modules

```
render() {
return (
 ul className="list-group">
  {this.renderListOfModules()}
```