



index.js

```
ReactDOM.render(<App />, document.getElementById("root"));
```

```
function App() {  
  return (  
    <div className="App">  
      <h1>Customer Application</h1>  
      <CustomerList />  
    </div>  
  );  
}
```

```
export default class CustomerRow extends Component {  
  // props : data passed from parent to child  
  render() {  
    // ES6 Destructuring...  
    let { id, firstName, lastName, gender } = this.props.customer;  
    return (  
      <div>  
        {firstName} &nbsp; {lastName} &nbsp; {gender} &nbsp;  
        <button type="button">Delete</button>  
      </div>  
    );  
  }  
}
```

```
export default class CustomerList extends Component {  
  x = 10; // state but React doesn't handle this  
  // react manages state only under "state" member  
  state = {  
    "customers": [  
      { "id": 1, "firstName": "Rachel", "lastName": "Green", "gender": "female" },  
      { "id": 2, "firstName": "Ross", "lastName": "Geller", "gender": "male" },  
      { "id": 3, "firstName": "Monica", "lastName": "Geller", "gender": "female" },  
      { "id": 4, "firstName": "Phoebe", "lastName": "Buffay", "gender": "female" },  
      { "id": 5, "firstName": "Chandler", "lastName": "Bing", "gender": "male" },  
      { "id": 6, "firstName": "Joey", "lastName": "Tribbiani", "gender": "male" }  
    ]  
  }  
}
```

```
  render() {  
    return (  
      <div>  
        <Filter /> <br />  
        <div>  
          {this.state.customers.map(cust => <CustomerRow customer={cust} />)}  
        </div>  
      </div>  
    );  
  }
```

called 6 times

```
export default function Filter() {  
  return (  
    <div>  
      <input type="text" placeholder="search by name" />  
    </div>  
  );  
}
```

Delete a Customer:

```
deleteCustomer(id) {  
  let custs = this.state.customers.filter(c => c.id !== id); // all customers except matching id  
  
  // update the state  
  this.setState({  
    "customers": custs  
  });  
  
  // avoid this because it doesn't reconcile  
  // this.state.customers = custs  
}
```

```
render() {  
  return (  
    <div>  
      <Filter /> <br />  
      <div>  
        {this.state.customers.map(cust => <CustomerRow customer={cust} />)}  
      </div>  
    </div>  
  );  
}
```

```
export default class CustomerRow extends Component {  
  // props : data passed from parent to child  
  render() {  
    // ES6 Destructuring...  
    let { id, firstName, lastName, gender } = this.props.customer;  
    return (  
      <div>  
        {firstName} &nbsp; {lastName} &nbsp; {gender} &nbsp;  
        <button type="button" onClick={() => this.props.deleteEvent(id)}>Delete</button>  
      </div>  
    );  
  }  
}
```