

Page: Todos.js

```
1 import React from "react";
2
3 import Todo from "../components/Todo";
4 import NewTodo from "../components/NewTodo";
5 import * as TodoActions from "../actions/TodoActions";
6 import TodoStore from "../stores/TodoStore";
7
8 export default class Todos extends React.Component {
9   constructor() {
10     super();
11     this.getTodos = this.getTodos.bind(this);
12     this.state = {
13       todos: TodoStore.getAll()
14     };
15   }
16
17   componentWillMount() {
18     TodoStore.on("change", this.getTodos);
19   }
20
21   componentWillUnmount() {
22     TodoStore.removeListener("change", this.getTodos);
23   }
24
25   getTodos() {
26     this.setState({
27       todos: TodoStore.getAll(),
28     });
29   }
30
31   reloadTodos() {
32     TodoActions.reloadTodos();
33   }
34
35   render() {
36     const { todos } = this.state;
37
38     const TodoComponents = todos.map((todo) => {
39       return <Todo key={todo.id} {...todo}/>;
40     });
41
42     const customUl = {
43       listStyle: "none",
44       paddingLeft: "0"
45     };
46
47     const headerStyling = {
48       fontFamily: "Roboto",
49       color: "#3C1053",
50       marginBottom: "20px"
51     };
52
53     return (
54       <div>
55         <h1 style={headerStyling}>A List of things To Do</h1>
56         <NewTodo />
57         <ul style={customUl}>{TodoComponents}</ul>
58       </div>
59     );
60   }
61 }
```

Store: TodoStore.js

```
1 import { EventEmitter } from "events";
2
3 import dispatcher from "../dispatcher";
4
5 class TodoStore extends EventEmitter {
6   constructor() {
7     super();
8     this.todos = [
9       {
10         id: 113464613,
11         text: "Go Shopping",
12         complete: true
13       },
14       {
15         id: 235684679,
16         text: "Pay Water Bill",
17         complete: false
18       },
19     ];
20   }
21
22   createTodo(text) {
23     const id = Date.now();
24
25     this.todos.push({
26       id,
27       text,
28       complete: false,
29     });
30     this.emit("change");
31   }
32
33   deleteTodo(id) {
34     this.todos = this.todos.filter((entry) => {
35       return entry.id !== id;
36     });
37     // this.emit("change");
38   }
39
40   getAll() {
41     return this.todos;
42   }
43
44   handleActions(action) {
45     switch(action.type) {
46       case "CREATE_TODO": {
47         this.createTodo(action.text);
48         this.emit("change");
49         break;
50       }
51       case "RECEIVE_TODOS": {
52         this.todos = action.todos;
53         this.emit("change");
54         break;
55       }
56       case "DELETE_TODO": {
57         this.deleteTodo(action.id);
58         this.emit("change");
59         break;
60       }
61     }
62   }
63
64 }
65
66 const todoStore = new TodoStore;
67 dispatcher.register(todoStore.handleActions.bind(todoStore));
68
69 export default todoStore;
```

Actions: TodoActions.js

```
1 import dispatcher from "../dispatcher";
2
3 export function createTodo(text) {
4   dispatcher.dispatch({
5     type: "CREATE_TODO",
6     text,
7   });
8 }
9
10 export function deleteTodo(id) {
11   dispatcher.dispatch({
12     type: "DELETE_TODO",
13     id,
14   });
15 }
16
17 export function reloadTodos() {
18   // axios("http://someurl.com/somedataendpoint").then((
19   //   console.log("got the data!", data);
20   // })
21   // dispatcher.dispatch({type: "FETCH_TODOS"});
22   dispatcher.dispatch({type: "RECEIVE_TODOS", todos: [
23     {
24       id: 8484848484,
25       text: "Go Shopping Again",
26       complete: false
27     },
28     {
29       id: 6262627272,
30       text: "Hug Wife",
31       complete: true
32     },
33   ]});
34 }
35
```

Component: Todo.js

```
1 import React from "react";
2
3 import * as TodoActions from "../actions/TodoActions";
4
5 export default class Todo extends React.Component {
6   constructor(props) {
7     super();
8   }
9
10   deleteTodo(e) {
11     TodoActions.deleteTodo(this.props.id);
12   }
13
14   render() {
15     const { complete, edit, text } = this.props;
16
17     const icon = complete ? "../assets/icon_done.svg" : "../assets/icon_not_done.svg";
18     const trash = "../assets/icon_trash.svg";
19     const iconStyle = {
20       maxWidth: "50px",
21       padding: "5px"
22     };
23
24     if (edit) {
25       return (
26         <li>
27           <input value={text} focus="focused"/>
28         </li>
29       );
30     }
31
32     return (
33       <li>
34         <span><img style={iconStyle} src={icon} /></span>
35         <span onClick={this.deleteTodo.bind(this)}><img style={iconStyle} src={trash} /></span>
36         <span>{text}</span>
37       </li>
38     );
39   }
40 }
```

Component: NewTodo.js

```
1 import React from "react";
2
3 import * as TodoActions from "../actions/TodoActions";
4
5 export default class NewTodo extends React.Component {
6   constructor(props) {
7     super();
8     this.state = {
9       newTodo: ""
10     };
11
12   }
13
14   addTodo(e) {
15     e.preventDefault();
16     TodoActions.createTodo(this.state.newTodo);
17     this.setState({newTodo: ""});
18   }
19
20   handleChange(e) {
21     this.setState({newTodo: e.target.value});
22   }
23
24   render() {
25
26     return (
27       <form style={formStyling}>
28         <input style={inputStyling} type="text" value={this.state.newTodo} onChange={this.handleChange.bind(this)} />
29         <button style={standardButton} onClick={this.addTodo.bind(this)}>Add New</button>
30       </form>
31     );
32   }
33 }
```