

# **LAPORAN INDIVIDU**



## **LAPORAN JOBSHEET MINGGU 7 (REDUX)**

### **MATA KULIAH: PEMROGRAMAN BERBASIS FRAMEWORK**

Disusun Oleh:

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**PROGRAM STUDI D-IV TEKNIK INFORMATIKA  
JURUSAN TEKNOLOGI INFORMASI  
POLITEKNIK NEGERI MALANG  
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Create react-js terlebih dahulu sebelum mengerjakan

```
D:\S6\Tugas_Achmad Satya Pradana_1741720077_PBF>create-react-app satyapradana-minggu7
```

Setelah create selesai install react-reduct terlebih dahulu dengan cara `npm install --save react-redux`

```
PS D:\S6\Tugas_Achmad Satya Pradana_1741720077_PBF\satyapradana-minggu7> Npm install --save react-redux
```

```
+ redux@4.0.5
+ react@16.13.0
added 2 packages from 1 contributor, updated 1 package and audited 919180 packages in 56.334s
and audited 919180 packages in 56.334s

52 packages are looking for funding
  run `npm fund` for details

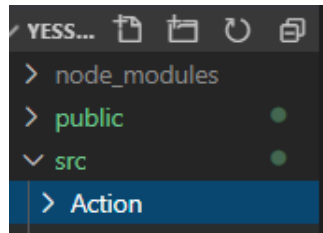
found 302 moderate severity vulnerabilities
  run `npm audit fix` to fix them, or `npm audit` for details
```

Install bootstrap dengan npm `install bootstrap - save`

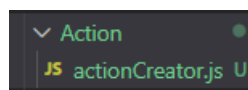
```
PS D:\S6\Tugas_Achmad Satya Pradana_1741720077_PBF\satyapradana-minggu7> npm install react-bootstrap bootstrap
```

## SOAL

1. Buat Folder dalam src yaitu Action



2. Beri nama actionCreator.js

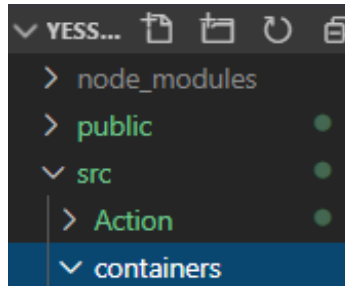


```
src > Action > JS actionCreator.js > ...
1  import {
2    ADD_TODO,
3    REMOVE_TODO,
4    TOGGLE_TODO,
5    SET_VISIBILITY_FILTER
6  } from "../actionsTypes";
7
8  let TodoId = 2;
9
10 export const addTodo = text => ({ type: ADD_TODO, id: TodoId++, text });
11
12 export const deleteTodo = id => ({ type: REMOVE_TODO, id: id });
13
14 export const toggleTodo = id => ({ type: TOGGLE_TODO, id: id });
15
16 export const setVisibilityFilter = filter => ({
17   type: SET_VISIBILITY_FILTER,
18   filter
19 });
```

3. Masih dalam Folder Action buatlah file actionsTypes.js

```
JS actionTypes.js X
src > Action > JS actionTypes.js > ...
1  export const ADD_TODO = 'ADD_TODO'
2  export const TOGGLE_TODO = 'TOGGLE_TODO'
3  export const REMOVE_TODO = 'REMOVE_TODO'
4  export const SHOW_ALL = 'SHOW_ALL'
5  export const SHOW_COMPLETED = 'SHOW_COMPLETED'
6  export const SHOW_ACTIVE = 'SHOW_ACTIVE'
7  export const SET_VISIBILITY_FILTER = 'SET_VISIBILITY_FILTER'
```

4. Kemudian dalam folder src buatlah folder dengan nama containers dan buatlah file dengan judul CreateTodo.js



```
JS actionTypes.js JS CreateTodo.js X
src > containers > JS CreateTodo.js > ...
14
15   onChangeTodoText(e){
16     this.setState({
17       todotext: e.target.value
18     })
19   }
20
21   render(){
22     return (
23       <div className="form-group row">
24         <div className="col-sm-10">
25           <input onChange={this.onChangeTodoText} value={this.state.todotext}
26             type="text" className="form-control" id="inputEmail3" placeholder="add todo here"/>
27           <button type="button" onClick={ () => this.setState({ todotext: '' }) }
28             style={{marginTop: "25px", marginRight: "15px"}} className="btn btn-danger">Cancel</button>
29           <button type="button" onClick={() =>{
30             this.props.addTo(this.state.todotext); this.setState({ todotext: '' }) } }
31             style={{marginTop: "25px"}} className="btn btn-success">Add Todo</button>
32         </div>
33       </div>
34     );
35   }
36 }
37
38 const mapDispatchToProps = (dispatch) => {
39   return bindActionCreators({
40     addTo
41   }, dispatch) }
42   export default connect(null, mapDispatchToProps)(CreateTodo) |
```

5. Masih dalam folder containers buatlah file dengan judul Table.js

```
JS Table.js ×
src > containers > JS Table.js > ...
1  import React, { Component } from "react";
2  import { connect } from "react-redux";
3  import {
4    deleteTodo,
5    toggleTodo,
6    setVisibilityFilter
7  } from "../actions/actionCreator";
8  import { SHOW_ALL, SHOW_COMPLETED, SHOW_ACTIVE } from "../actions/actionsTypes";
9  import { bindActionCreators } from "redux";
10
11  class Table extends Component {
12    render() {
13      return (
14        <div className="col-lg-10 offset-lg-1 col-md-10 col-sm-12 col-xs-12">
15          {" "}
16          <nav style={{ marginTop: "60px" }}>
17            {" "}
18            <ol className="breadcrumb">
19              {" "}
20              <li
21                className={
22                  "breadcrumb-item " +
23                  (this.props.visibilityFilter === SHOW_ALL ? "active" : "")
24                }
25                onClick={() => this.props.setVisibilityFilter(SHOW_ALL)}
26              >
27                {" "}
28                All{" "}
29              </li>{" "}
30              <li
31                className={
32                  "breadcrumb-item " +
33                  (this.props.visibilityFilter === SHOW_COMPLETED ? "active" : "")
34                }
35                onClick={() => this.props.setVisibilityFilter(SHOW_COMPLETED)}
36              >
37                {" "}
38                Completed{" "}
39              </li>{" "}
40              <li
41                className={
42                  "breadcrumb-item " +
43                  (this.props.visibilityFilter === SHOW_ACTIVE ? "active" : "")
44                }
45                onClick={() => this.props.setVisibilityFilter(SHOW_ACTIVE)}
46              >
```

```
46     >
47     { " "}
48     Active{ " "}
49   </li>{ " "}
50 </ol>{ " "}
51 </nav>{ " "}
52 {this.props.todos.length !== 0 ? (
53   <table
54     style={{ marginTop: "60px" }}
55     className="table table-hover table-dark"
56   >
57     { " "}
58     <thead>
59     { " "}
60     <tr>
61     { " "}
62     <th scope="col">Todos</th> <th scope="col">Actions</th>{ " "}
63   </tr>{ " "}
64 </thead>{ " "}
65 <tbody>
66   { " "}
67   {this.props.todos.map(todo => (
68     <tr key={todo.id}>
69     <td
70       style={{
71         textDecoration: todo.completed ? "line-through" : "none"
72       }}
73     >
74     { " "}
75     {todo.text} {todo.completed === true ? "(completed)" : ""}{ " "}
76   </td>{ " "}
77   <td>
78     { " "}
79     <span
80       className="fas fa-minus-circle"
81       onClick={() => this.props.deleteTodo(todo.id)}
82       style={{
83         color: "white",
84         fontSize: "20pt",
85         marginRight: "20px"
86       }}
87     >
```

```

86     }
87     />{" "}
88     <span
89       className="fas fa-check-circle"
90       onClick={() => this.props.toggleTodo(todo.id)}
91       style={{ color: "white", fontSize: "20pt" }}
92     />{" "}
93   </td>{" "}
94 </tr>
95   )}{ " "}
96 </tbody>{" "}
97 </table>
98 ) : (
99   <div
100     style={{ marginTop: "50px" }}
101     className="col-lg-10 col-md-10 col-xs-12 col-sm-12 offset-lg-1"
102   >
103     {" "}
104     <div className="alert alert-danger" role="alert">
105       {" "}
106       Todo List is empty or Filter results show no results{" "}
107     </div>{" "}
108   </div>
109   )}{ " "}
110 </div>
111 );
112 }
113 ] (parameter) filter: any
114 const getVisibleTodos = (todos, filter) => {
115   switch (filter) {
116     case SHOW_ALL:
117       return todos;
118     case SHOW_COMPLETED:
119       return todos.filter(t => t.completed);
120     case SHOW_ACTIVE:
121       return todos.filter(t => !t.completed);
122     default:
123       throw new Error("Unknown filter: " + filter);
124   }
125 };

```

```

126
127 √ const mapStateToProps = state => {
128   √ return {
129     todos: getVisibleTodos(state.todos, state.visibilityFilter),
130     visibilityFilter: state.visibilityFilter
131   };
132 };
133
134 √ const mapDispatchToProps = dispatch => {
135   return bindActionCreators(
136     { deleteTodo, toggleTodo, setVisibilityFilter },
137     dispatch
138   );
139 };
140
141 export default connect(mapStateToProps, mapDispatchToProps)(Table);
142

```

6. Edit index.js dengan source code berikut ini :

```
JS TodoReducer.js JS MainReducer.js JS fileReducers.js JS index.js X
src > JS index.js > [e] store
1  import React from 'react';
2  import ReactDOM from 'react-dom';
3  import { Provider } from 'react-redux'
4  import { createStore, applyMiddleware, compose } from 'redux'
5  import MainReducer from './reducers/MainReducer'
6  import './index.css';
7  import App from './App';
8  import * as serviceWorker from './serviceWorker';
9  // import registerServiceWorker from './serviceWorker';
10
11  const store = compose(window.devToolsExtension ? window.devToolsExtension() : f => f)
12  (createStore)(MainReducer)
13
14  ReactDOM.render(<Provider store={store}>
15  <App />
16  </Provider>
17  , document.getElementById('root'));
18  serviceWorker.unregister();
```

7. Buat folder dalam src dengan nama reducers dan beri nama file FilterReducer.js dan ketikkan program dibawah ini :

```
JS FilterReducers.js X
src > reducers > JS FilterReducers.js > ...
1  import { SHOW_ALL, SET_VISIBILITY_FILTER } from "../Action/actionTypes"
2
3  const visibilityFilter = (state = SHOW_ALL, action) => {
4    switch (action.type) {
5      case SET_VISIBILITY_FILTER:
6        return action.filter;
7      default:
8        return state;
9    }
10 };
11
12 export default visibilityFilter;
13 |
```



8. Masih didalam folder reducers buatlah file dengan nama `TodoReducer.js`

```
JS TodoReducer.js X
src > reducers > JS TodoReducer.js > ...
 4  //      id: 0,
 5  //      text: 'Walk the Dog',
 6  //    },
 7  //    {
 8  //      id: 1,
 9  //      text: 'learn Redux',
10
11  //    },
12  // ]
13
14  import {
15    ADD_TODO,
16    REMOVE_TODO,
17    TOGGLE_TODO
18  } |
19  from '../Action/actionTypes'
20
21  const INITIAL_DATA = []
22
23  const TodoReducer = (state=INITIAL_DATA, action) => {
24    switch (action.type){
25      case ADD_TODO:
26        return [
27          ...state,{
28            id: action.id,
29            text: action.text,
30            completed: false,
31          }
32        ]
33      case TOGGLE_TODO:
34        return state.map(todo =>
35          (todo.id === action.id)
36          ? {...todo, completed: !todo.completed}
37          : todo
38        )
39      case REMOVE_TODO:
40        const numIndex = parseInt(action.id)
41        return state.filter(todo => todo.id !== numIndex);
42      default:
43        return state
44    }
45  }
46
47  export default TodoReducer
```

9. Buat file dengan nama MainReducer.js dan simpan

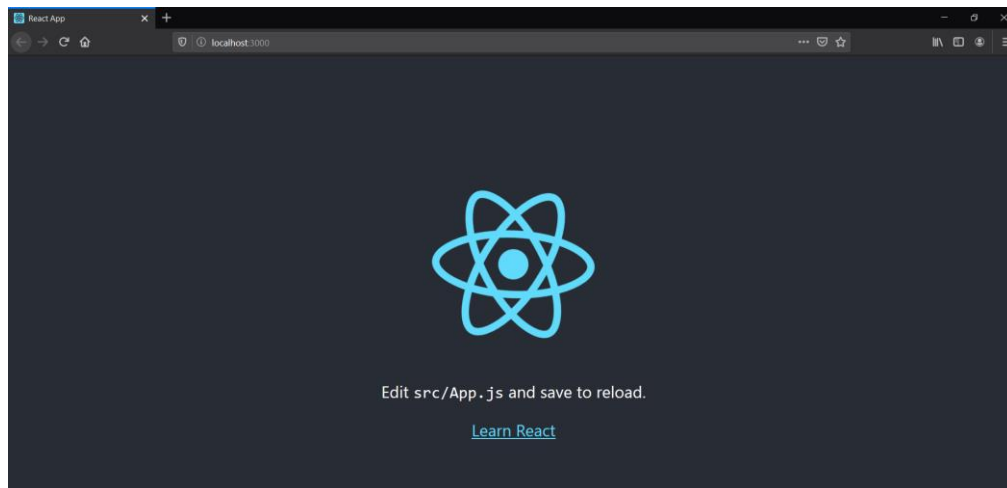
```
JS Table.js JS MainReducer.js X
src > reducers > JS MainReducer.js > ...
1 import { combineReducers } from 'redux'
2 import todos from './TodoReducer'
3 import visibilityFilter from './FilterReducers'
4
5 export default combineReducers({
6   todos,
7   visibilityFilter
8 })
```

## 10. Hasil

a. Sebelum perubahan app.js

```
JS App.js JS Table.js JS index.js JS CreateTodo.js
src > JS App.js > App

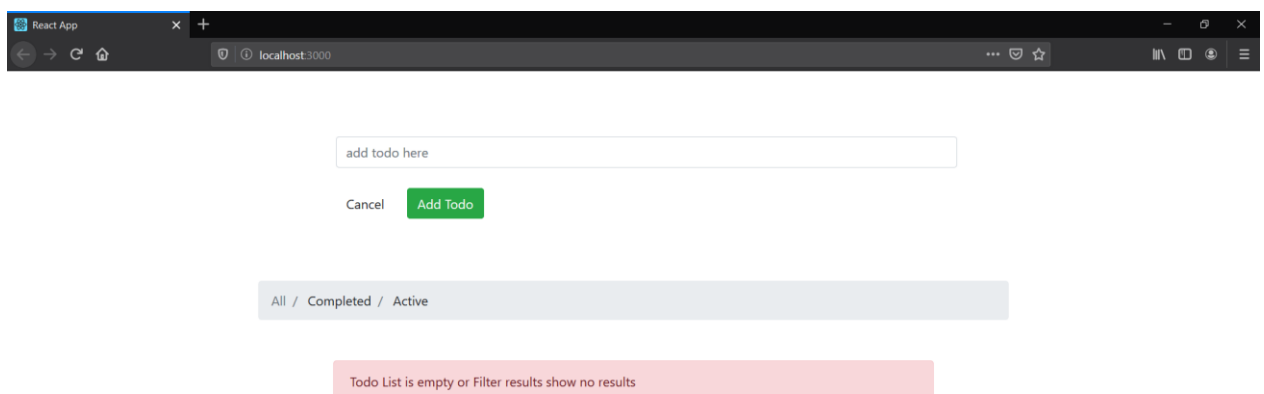
1 import React from 'react';
2 import logo from './logo.svg';
3 import './App.css';
4
5 function App() {
6   return (
7     <div className="App">
8       <header className="App-header">
9         <img src={logo} className="App-logo" alt="logo" />
10        <p>
11          Edit <code>src/App.js</code> and save to reload.
12        </p>
13        <a
14          className="App-link"
15          href="https://reactjs.org"
16          target="_blank"
17          rel="noopener noreferrer"
18        >
19          Learn React
20        </a>
21      </header>
22    </div>
23  );
24
25
26 export default App;
27
```



b. Sesudah perubahan app.js

```
JS App.js  JS Table.js  JS index.js  JS CreateTodo.js
src > JS App.js > App > render

1  import React, { Component } from 'react'
2  import CreateTodo from './containers/CreateTodo'
3  import Table from './containers/Table'
4  import 'bootstrap/dist/css/bootstrap.css';
5  class App extends Component {
6    render() {
7      return (
8        <div className="App">
9          <div className="container" style={{ marginTop: "80px"}} >
10             <div className="row">
11               <div className="col-lg-10 offset-lg-2 col-md-10 col-sm-12 col-xs-12">
12                 <CreateTodo />
13               </div>
14               <Table />
15             </div>
16           </div>
17         </div>
18       );
19     }
20   }
21
22   export default App;
```



add todo here

Cancel

Add Todo

All / Completed / Active

Todos	Actions
satya	