

LAPORAN TUGAS MINGGU 7

Disusun sebagai

MATA KULIAH: FRAMEWORK

Oleh:

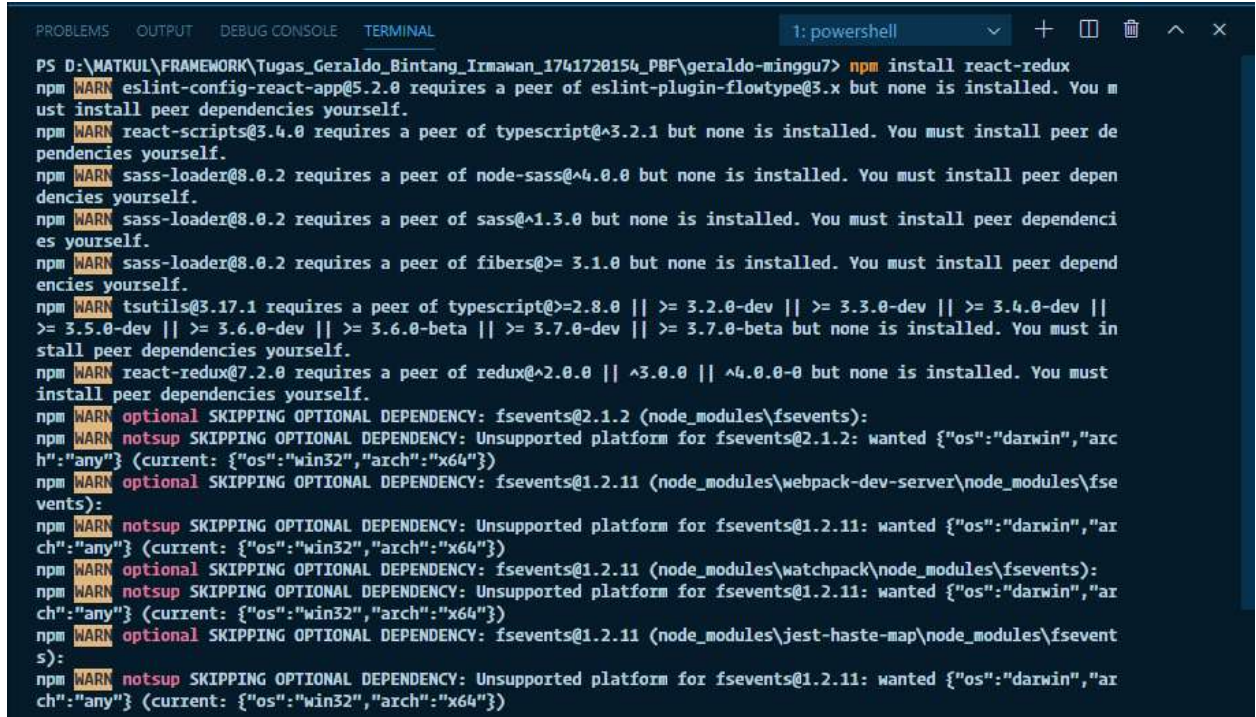
Geraldo Bintang I / 1741720154
TI – 3B / 15



PROGRAM STUDI: D-IV TEKNIK INFORMATIKA
JURUSAN: TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG
2020

REDUX

1. Install redux 'npm install react-redux' enter

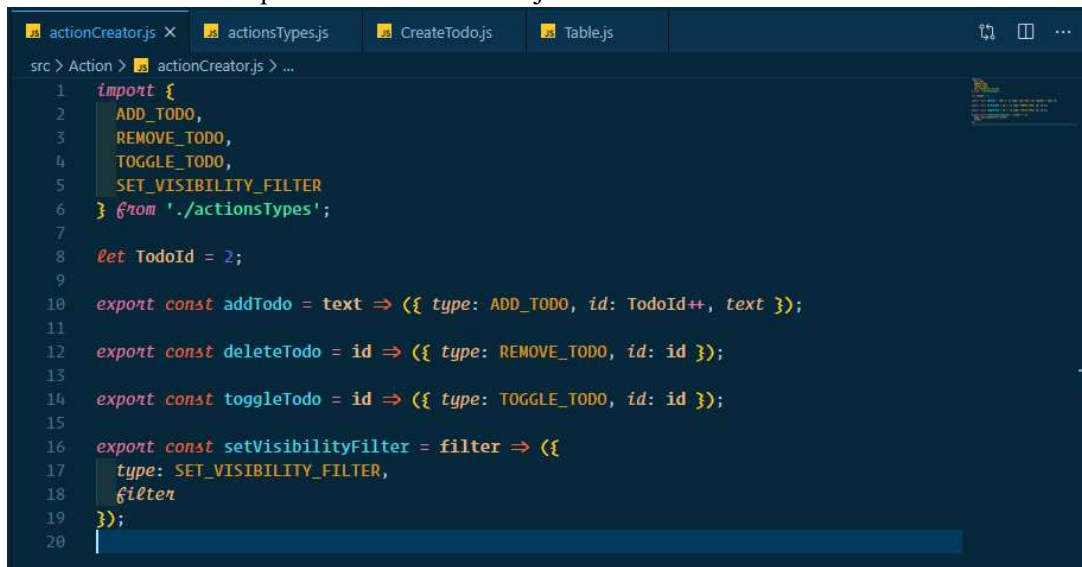


```
PS D:\WATKUL\FRAMEWORK\Tugas_Geraldo_Bintang_Irmawan_1741720154_PBF\geraldo-minggu7> npm install react-redux
npm WARN eslint-config-react-app@5.2.0 requires a peer of eslint-plugin-flowtype@3.x but none is installed. You must install peer dependencies yourself.
npm WARN react-scripts@3.4.0 requires a peer of typescript@^3.2.1 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of node-sass@^4.0.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of sass@^1.3.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of fibers@>= 3.1.0 but none is installed. You must install peer dependencies yourself.
npm WARN tsutils@3.17.1 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN react-redux@7.2.0 requires a peer of redux@^2.0.0 || ^3.0.0 || ^4.0.0-0 but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\watchpack\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\jest-haste-map\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
```

2. Buat folder bernama 'Action' di dalam folder src, kemudian di dalam folder Action, buat file bernama 'actionCreator.js'

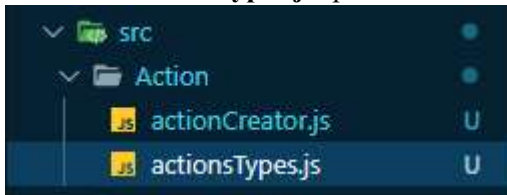


3. Ketikkan code berikut pada file actionCreator.js



```
src > Action > 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 });
20
```

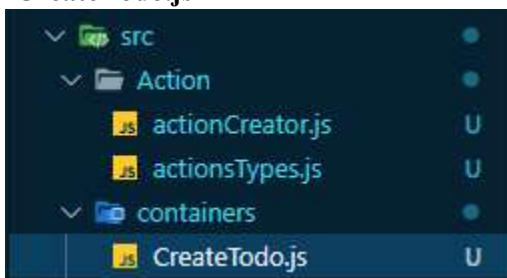
4. Buat file 'actionsTypes.js' pada folder Action



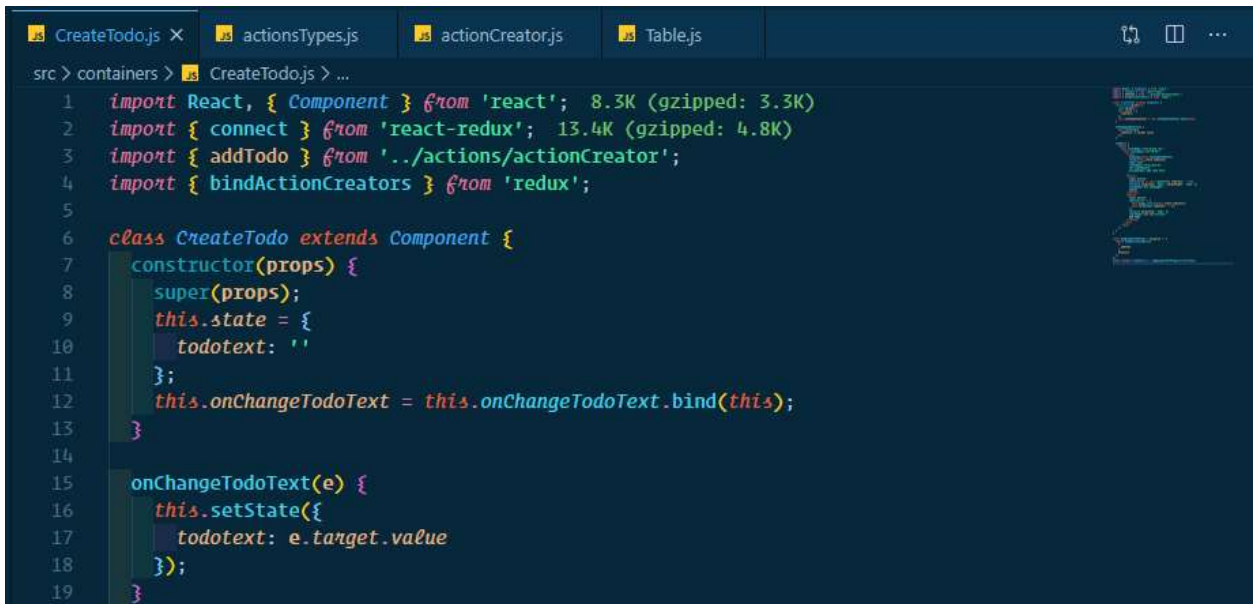
5. Ketikkan code berikut pada file actionsTypes.js



6. Buat folder 'containers' pada di dalam folder src, kemudian buat file dengan nama 'CreateTodo.js'



7. Ketikkan code berikut



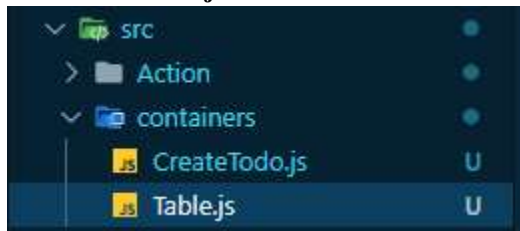
```

21 ✓ render() {
22     return (
23 ✓       <div className='form-group row'>
24 ✓         <div className='col-sm-10'>
25 ✓           <input
26 ✓             onChange={this.onChangeTodoText}
27             value={this.state.todotext}
28             type='text'
29             className='form-control'
30             id='inputEmail3'
31             placeholder='add todo here'
32           />
33 ✓           <button
34             type='button'
35             onClick={() => this.setState({ todotext: '' })}
36             style={{ marginTop: '25px', marginRight: '15px' }}
37             className='btn btn-danger'>
38             Cancel
39           </button>
40 ✓           <button
41             type='button'
42             onClick={() => {
43               this.props.addToDo(this.state.todotext);
44               this.setState({ todotext: '' });
45             }}
46             style={{ marginTop: '25px' }}
47             className='btn btn-success'>
48             Add Todo
49           </button>
50         </div>
51       </div>
52     );
53   }
54 }

56 const mapDispatchToProps = dispatch => {
57   return bindActionCreators(
58     {
59       addToDo
60     },
61     dispatch
62   );
63 };
64 export default connect(null, mapDispatchToProps)(CreateTodo);

```

8. Buat file 'Table.js' di dalam folder containers



9. Ketikkan code berikut

```
src > containers > Table.js > Table > render
1 import React, { Component } from 'react'; 8.3K (gzipped: 3.3K)
2 import { connect } from 'react-redux'; 13.4K (gzipped: 4.8K)
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         <nav style={{ marginTop: '60px' }}>
16           <ol className='breadcrumb'>
17             <li
18               className={
19                 'breadcrumb-item ' +
20                 (this.props.visibilityFilter === SHOW_ALL ? 'active' : '')
21               }
22               onClick={() => this.props.setVisibilityFilter(SHOW_ALL)}>
23               All
24             </li>
25             <li
26               className={
27                 'breadcrumb-item ' +
28                 (this.props.visibilityFilter === SHOW_COMPLETED ? 'active' : '')
29               }
30               onClick={() => this.props.setVisibilityFilter(SHOW_COMPLETED)}>
31               Completed
32             </li>
33             <li
34               className={
35                 'breadcrumb-item ' +
36                 (this.props.visibilityFilter === SHOW_ACTIVE ? 'active' : '')
37               }
38               onClick={() => this.props.setVisibilityFilter(SHOW_ACTIVE)}>
39               Active
40             </li>
41           </ol>
42         </nav>
43         {this.props.todos.length !== 0 ? (
44           <table
45             style={{ marginTop: '60px' }}
46             className='table table-hover table-dark'>
47             <thead>
48               <tr>
49                 <th scope='col'>Todos</th> <th scope='col'>Actions</th>
50               </tr>
51             </thead>
```

```

52     <tbody>
53       {this.props.todos.map(todo => (
54         <tr key={todo.id}>
55           <td
56             style={{
57               textDecoration: todo.completed ? 'line-through' : 'none'
58             }}
59             {todo.text} {todo.completed === true ? '(completed)' : ''}
60           </td>
61           <td>
62             <span
63               className='fas fa-minus-circle'
64               onClick={() => this.props.deleteTodo(todo.id)}
65               style={{
66                 color: 'white',
67                 fontSize: '20pt',
68                 marginRight: '20px'
69               }}
70             />
71             <span
72               className='fas fa-check-circle'
73               onClick={() => this.props.toggleTodo(todo.id)}
74               style={{ color: 'white', fontSize: '20pt' }}
75             />
76           </td>
77         </tr>
78       )]}
79     </tbody>
80   </table>
81 ) : (
82   <div
83     style={{ marginTop: '50px' }}
84     className='col-lg-10 col-md-10 col-xs-12 col-sm-12 offset-lg-1'>
85     <div className='alert alert-danger' role='alert'>
86       Todo List is empty or Filter results show no results

```

```

87   </div>
88 </div>
89 )}
90 </div>
91 );
92 }
93 }
94
95 const getVisibleTodos = (todos, filter) => {
96   switch (filter) {
97     case SHOW_ALL:
98       return todos;
99     case SHOW_COMPLETED:
100       return todos.filter(t => t.completed);
101     case SHOW_ACTIVE:
102       return todos.filter(t => !t.completed);
103     default:
104       throw new Error('Unknown filter: ' + filter);
105   }
106 };

```

```

107
108 const mapStateToProps = state => {
109   return {
110     todos: getVisibleTodos(state.todos, state.visibilityFilter),
111     visibilityFilter: state.visibilityFilter
112   };
113 };
114
115 const mapDispatchToProps = dispatch => {
116   return bindActionCreators(
117     { deleteTodo, toggleTodo, setVisibilityFilter },
118     dispatch
119   );
120 };
121
122 export default connect(mapStateToProps, mapDispatchToProps)(Table);
123

```

10. Edit file 'index.js' yang ada di dalam folder src seperti berikut

```

src > index.js  X  Table.js  CreateTodo.js  actionTypes.js  actionCreator.js
1  import React from 'react'; 8.3K (gzipped: 3.3K)
2  import ReactDOM from 'react-dom'; 120.9K (gzipped: 38.7K)
3  import { Provider } from 'react-redux'; 13.2K (gzipped: 4.7K)
4  import { createStore, compose } from 'redux';
5  import MainReducer from './reducers/MainReducer';
6  import App from './App';
7  import registerServiceWorker from './registerServiceWorker';
8
9  const store = compose(
10    window.devToolsExtension ? window.devToolsExtension() : f => f
11  )(createStore)(MainReducer);
12
13  ReactDOM.render(
14    <Provider store={store}>
15      <App />
16    </Provider>,
17    document.getElementById('root')
18  );
19  registerServiceWorker();

```

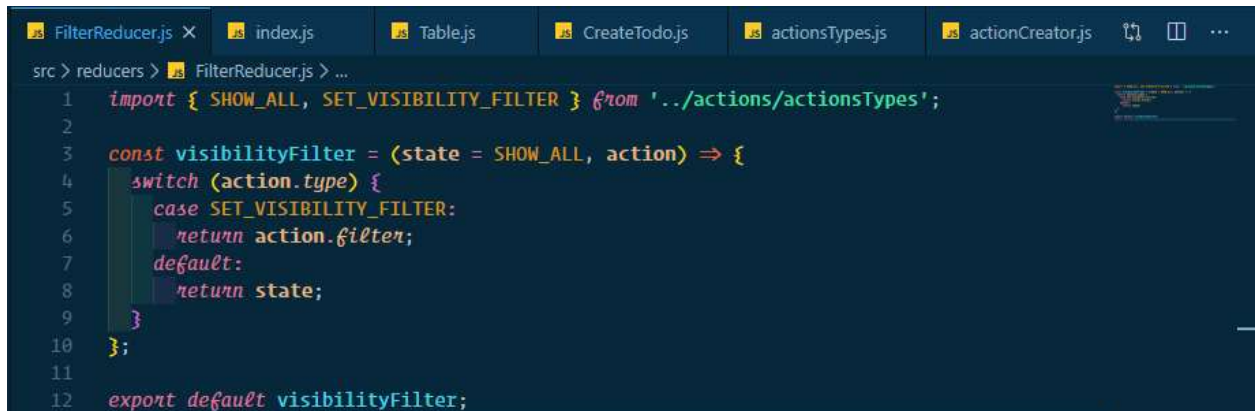
11. Buat folder 'reducers' pada didalam folder src, kemudian buat file 'FilterReducers.js'

```

v src
> Action
> containers
v reducers
  FilterReducer.js  U

```

12. Kemudian ketikkan code berikut

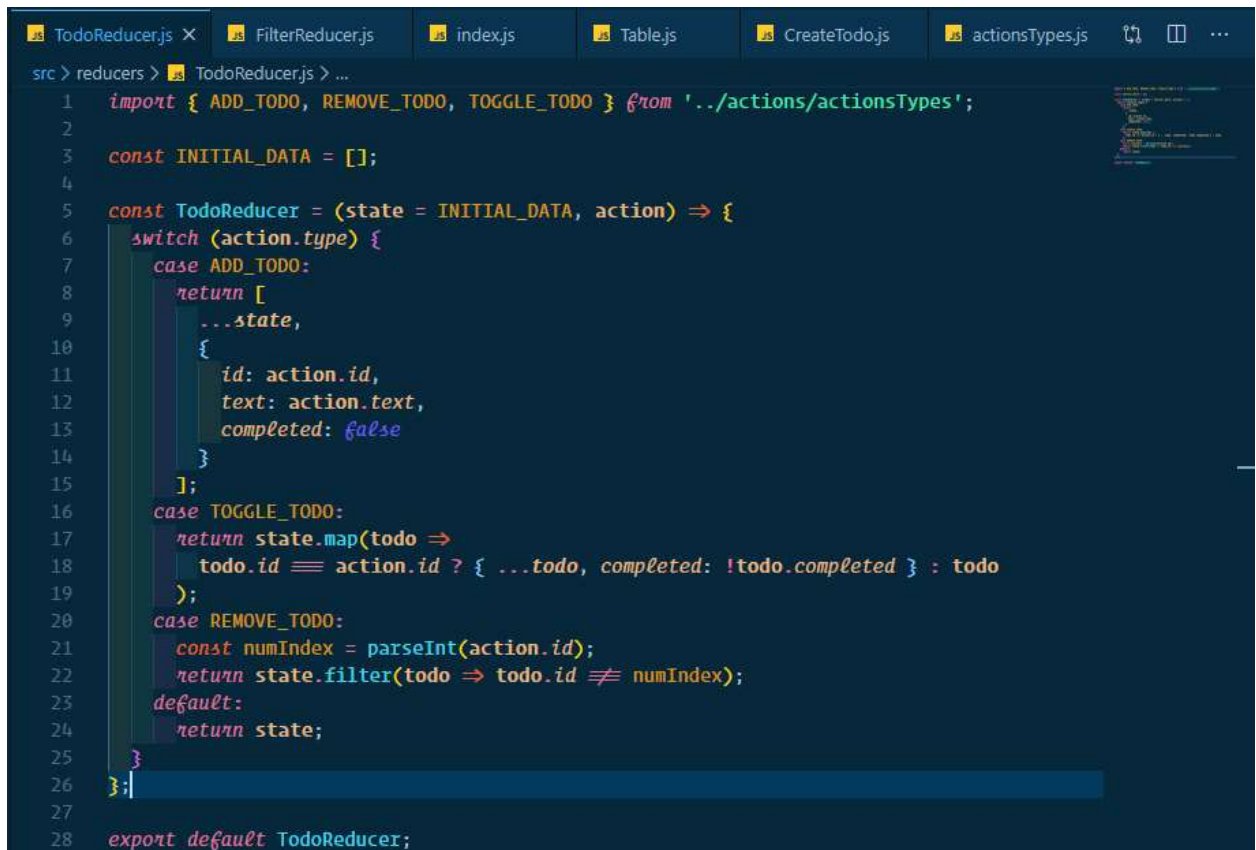


```
1 import { SHOW_ALL, SET_VISIBILITY_FILTER } from '../actions/actionsTypes';
2
3 const visibilityFilter = (state = SHOW_ALL, action) => {
4   switch (action.type) {
5     case SET_VISIBILITY_FILTER:
6       return action.filter;
7     default:
8       return state;
9   }
10 };
11
12 export default visibilityFilter;
```

13. Buat file 'TodoReducer.js' di dalam folder reducers



14. Ketikkan code berikut



```
1 import { ADD_TODO, REMOVE_TODO, TOGGLE_TODO } from '../actions/actionsTypes';
2
3 const INITIAL_DATA = [];
4
5 const TodoReducer = (state = INITIAL_DATA, action) => {
6   switch (action.type) {
7     case ADD_TODO:
8       return [
9         ...state,
10         {
11           id: action.id,
12           text: action.text,
13           completed: false
14         }
15       ];
16     case TOGGLE_TODO:
17       return state.map(todo =>
18         todo.id === action.id ? { ...todo, completed: !todo.completed } : todo
19       );
20     case REMOVE_TODO:
21       const numIndex = parseInt(action.id);
22       return state.filter(todo => todo.id !== numIndex);
23     default:
24       return state;
25   }
26 };
27
28 export default TodoReducer;
```


15. Buat file 'MainReducer.js' pada folder reducer



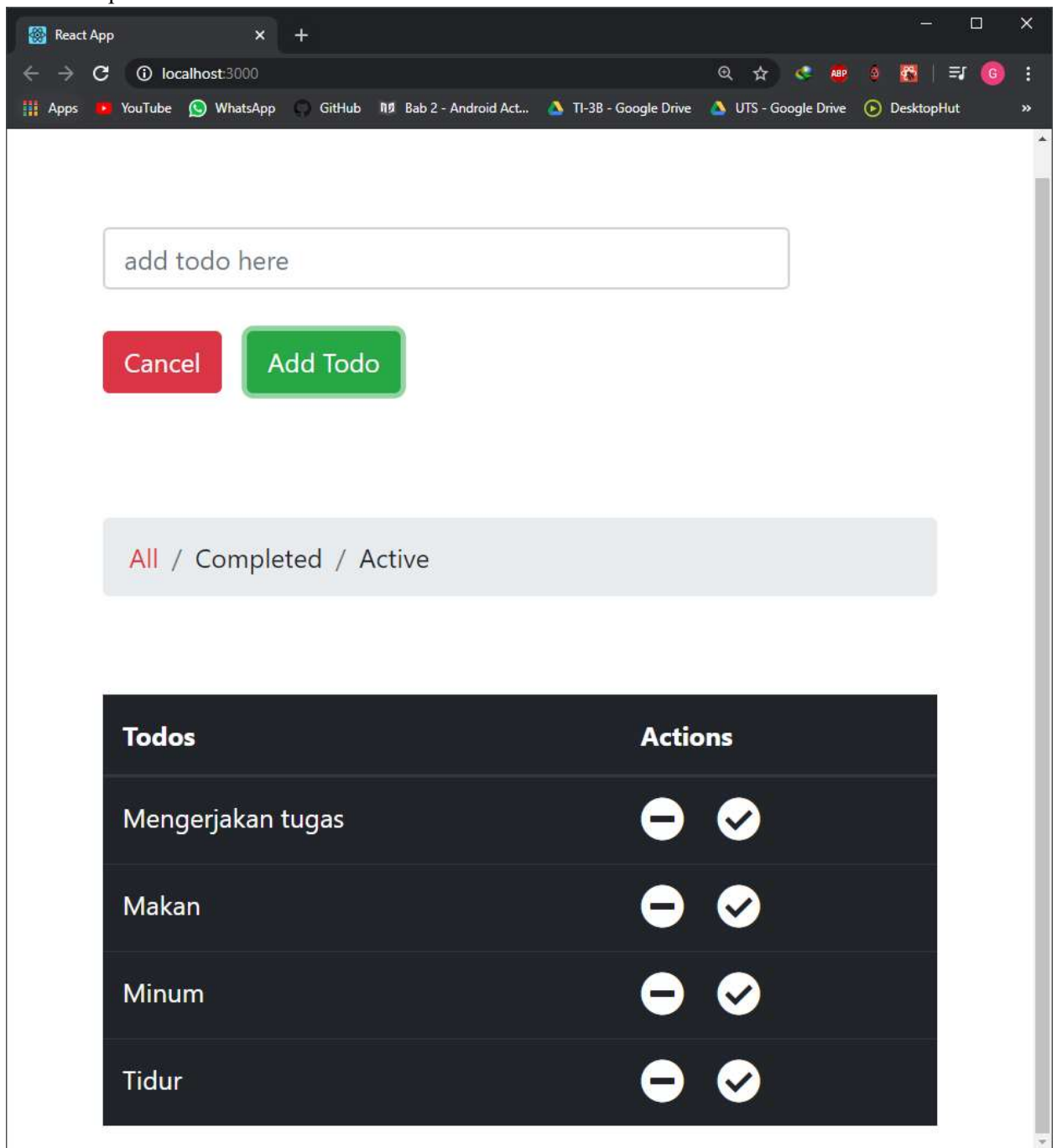
16. Ketikkan code berikut

```
src > MainReducer.js > ...
1 import { combineReducers } from 'redux';
2 import todos from './TodoReducer';
3 import visibilityFilter from './FilterReducer';
4
5 export default combineReducers({ todos, visibilityFilter });
```

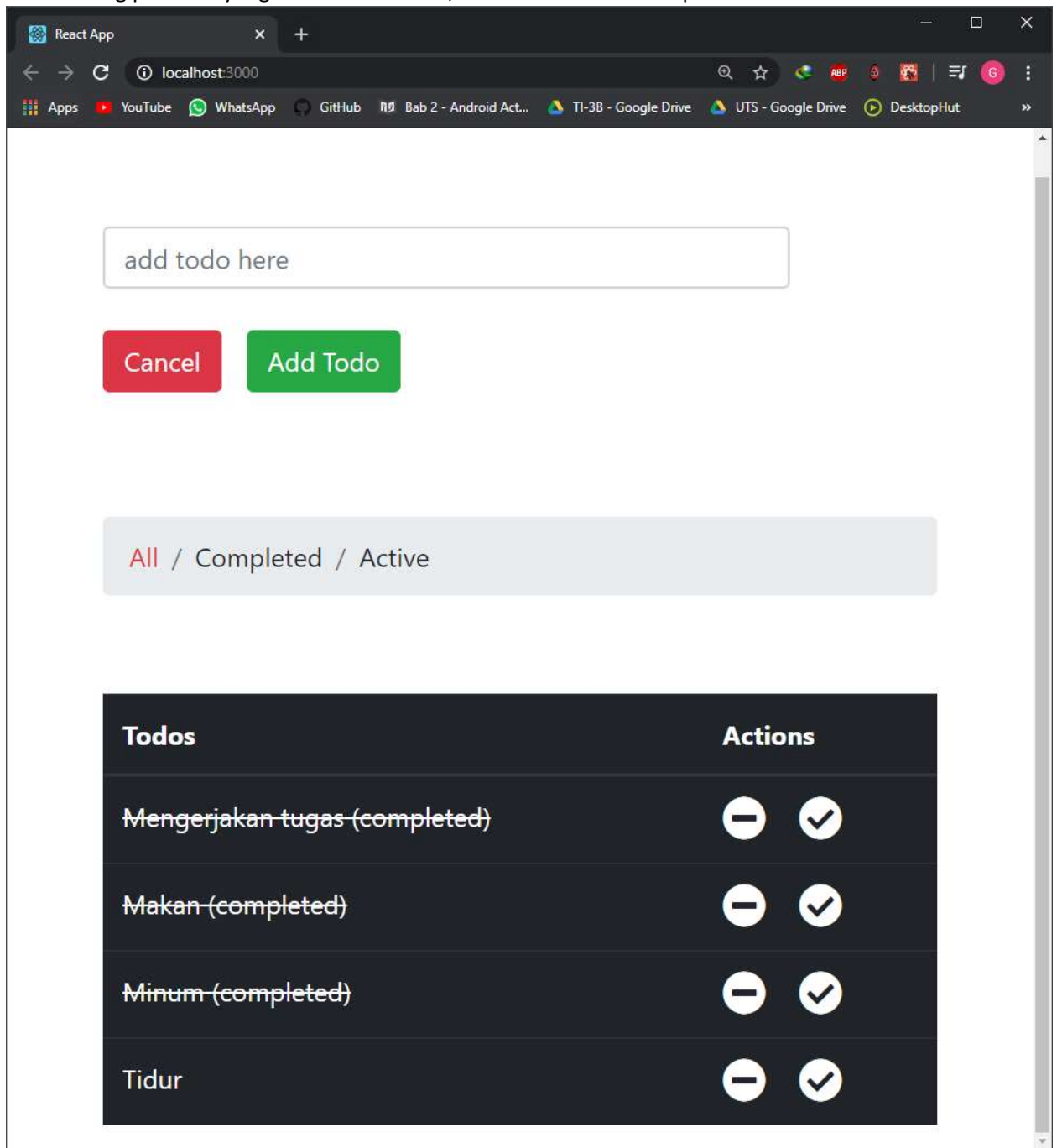
17. Edit file app.js seperti berikut

```
src > App.js > ...
1 import React, { Component } from 'react';
2 import CreateTodo from './containers/CreateTodo';
3 import Table from './containers/Table';
4
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;
```

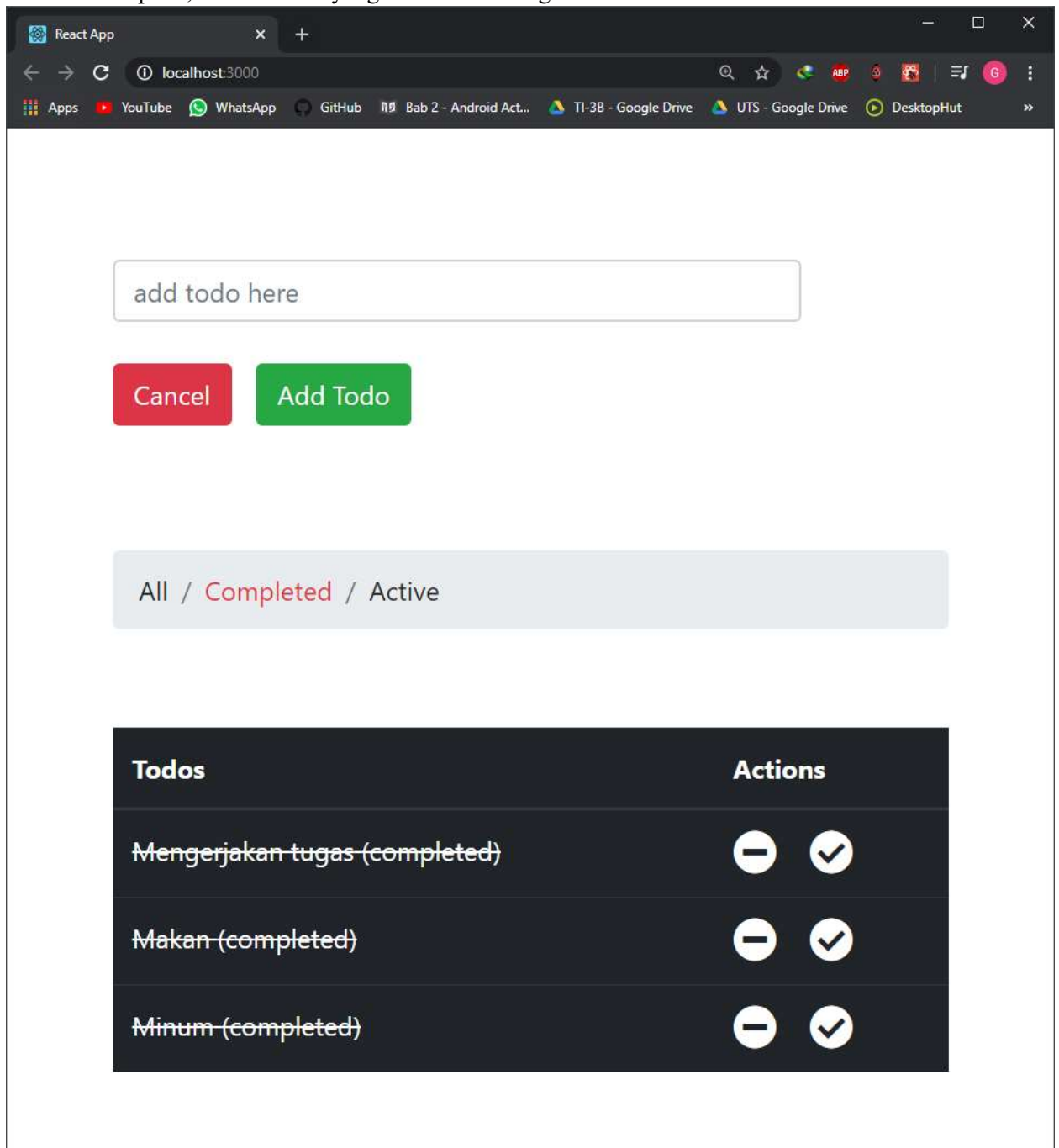
18. Hasil dari praktikum



Klik centang pada hal yang sudah di lakukan , maka akan tercoret seperti di bawah



Pada tab complete, akan muncul yang sudah di centang



Hal yang belum di centang akan muncul di tab Active

