

Laporan

Redux

Waktu Pelaksanaan : Kamis, 18 Maret 2019 Pukul 12.50 – 18.00

Mata Kuliah : Pemrograman Berbasis Framework

Tempat : Gedung Sipil Lantai 7 Ruang LPR 5

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Praktikum

1. Membuat folder baru bernama Action kemudian membuat file baru didalam folder Action bernama actionCreator.js kemudian menuliskan kode segai berikut

```
1 import { ADD_TODO, REMOVE_TODO, TOGGLE_TODO, SET_VISIBILITY_FILTER } from './actionTypes'
2
3 let TodoId = 2
4
5 export const addTodo = text => ({ type: ADD_TODO, id: TodoId++, text })
6
7 export const deleteTodo = (id) => ({ type: REMOVE_TODO, id: id })
8
9 export const toggleTodo = (id) => ({ type: TOGGLE_TODO, id: id })
10
11 export const setVisibilityFilter = filter => ({ type: SET_VISIBILITY_FILTER, filter })
```

2. Kemudian pada folder Action membuat file baru bernama actionTypes.js dan menuliskan kode sebagai berikut

```
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'
```

3. Kemudian pada folder src membuat folder baru bernama Containers, didalam folder containers membuat file baru bernama createTodo.js dan menuliskan kode sebagai berikut

```

1  import React, { Component } from 'react'
2  import { connect } from 'react-redux'
3  import { addToDo } from '../Action/actionCreator'
4  import { bindActionCreators } from 'redux'
5
6  class CreateTodo extends Component {
7    constructor(props) {
8      super(props)
9      this.state = { todotext: '', }
10     this.onChangeTodoText = this.onChangeTodoText.bind(this)
11   }
12
13   onChangeTodoText(e) {
14     this.setState(
15       {
16         todotext: e.target.value
17       }
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} type="text"
26             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.addToDo(this.state.todotext);
31             this.setState({ todotext: '' })
32           }}
33             style={{ marginTop: "25px" }} className="btn btn-success">Add Todo</button>
34         </div>
35       </div>
36     );
37   }
38 }
39
40 const mapDispatchToProps = (dispatch) => {
41   return bindActionCreators({ addToDo }, dispatch)
42 }
43 export default connect(null, mapDispatchToProps)(CreateTodo)

```

4. Pada folder containers membuat file baru bernama Table.js dan menuliskan kode sebagai berikut

```

1  import React, { Component } from "react";
2  import { connect } from "react-redux";
3  import { deleteTodo, toggleTodo, setVisibilityFilter } from "../Action/actionCreator";
4  import { SHOW_ALL, SHOW_COMPLETED, SHOW_ACTIVE } from "../Action/actionTypes";
5  import { bindActionCreators } from "redux";

```

```

7 = class Table extends Component {
8   render() {
9     return (<div className="col-lg-10 offset-lg-1 col-md-10 col-sm-12 col-xs-12">
10       <nav style={{ marginTop: "60px" }}>
11         <ol className="breadcrumb">
12           <li className={"breadcrumb-item " + (this.props.visibilityFilter === SHOW_ALL ? 'active' : '')}
13             onClick={() => this.props.setVisibilityFilter(SHOW_ALL)}>All</li>
14           <li className={"breadcrumb-item " + (this.props.visibilityFilter === SHOW_COMPLETED ? 'active' : '')}
15             onClick={() => this.props.setVisibilityFilter(SHOW_COMPLETED)}>Completed</li>
16           <li className={"breadcrumb-item " + (this.props.visibilityFilter === SHOW_ACTIVE ? 'active' : '')}
17             onClick={() => this.props.setVisibilityFilter(SHOW_ACTIVE)}>Active</li>
18         </ol>
19       </nav>
20       {this.props.todos.length !== 0 ? (
21         <table style={{ marginTop: "60px" }} className="table table-hover table-dark">
22           <thead>
23             <tr>
24               <th scope="col">Todos</th>
25               <th scope="col">Actions</th>
26             </tr>
27           </thead>
28           <tbody>
29             {this.props.todos.map(todo => (
30               <tr key={todo.id}>
31                 <td
32                   style={{
33                     textDecoration: todo.completed ? "line-through" : "none"
34                   }}
35                 >
36                   {todo.text} {todo.completed === true ? "(completed)" : ""}
37                 </td>
38                 <td>
39                   <span
40                     className="fas fa-minus-circle"
41                     onClick={() => this.props.deleteTodo(todo.id)}
42                     style={{
43                       color: "white",
44                       fontSize: "20pt",
45                       marginRight: "20px"
46                     }}
47                   />
48                   <span
49                     className="fas fa-check-circle"
50                     onClick={() => this.props.toggleTodo(todo.id)}
51                     style={{
52                       color: "white",
53                       fontSize: "20pt"
54                     }}
55                   />
56                 </td>
57               </tr>
58             </tbody>
59           </table>
60         ) : (
61           <div
62             style={{ marginTop: "50px" }}
63             className="col-lg-10 col-md-10 col-xs-12 col-sm-12 offset-lg-1">
64             <div
65               className="alert alert-danger" role="alert">
66               Todo List is empty or Filter results show no results
67             </div>
68           </div>
69         )
70       )
71     }

```

```

71     }
72     {" "}
73   </div>
74   );
75 }
76 }
77
78 const getVisibleTodos = (todos, filter) => {
79   switch (filter) {
80     case SHOW_ALL:
81       return todos;
82     case SHOW_COMPLETED:
83       return todos.filter(t => t.completed);
84     case SHOW_ACTIVE:
85       return todos.filter(t => !t.completed);
86     default:
87       throw new Error("Unknown filter: " + filter);
88   }
89 };

```

```

91 const mapStateToProps = state => {
92   return {
93     todos: getVisibleTodos(state.todos, state.visibilityFilter),
94     visibilityFilter: state.visibilityFilter
95   };
96 };
97
98 const mapDispatchToProps = dispatch => {
99   return bindActionCreators(
100     {
101       deleteTodo,
102       toggleTodo,
103       setVisibilityFilter
104     },
105     dispatch
106   );
107 };
108
109 export default connect(mapStateToProps, mapDispatchToProps)(Table);

```

5. Kemudian edit file index.js menjadi seperti berikut

```

1  import React from 'react';
2  import ReactDOM from 'react-dom';
3  import './index.css';
4  import { Provider } from 'react-redux'
5  import { createStore, applyMiddleware, compose } from 'redux'
6  import MainReducer from './Reducers/mainReducer'
7  import App from './App';
8  import * as serviceWorker from './serviceWorker';
9
10 const store = compose(window.devToolsExtension ? window.devToolsExtension() : f => f)(createStore)(MainReducer)
11
12 ReactDOM.render(<Provider store={store}>
13   <App />
14 </Provider>
15   , document.getElementById('root'));
16
17
18 // If you want your app to work offline and load faster, you can change
19 // unregister() to register() below. Note this comes with some pitfalls.
20 // Learn more about service workers: https://bit.ly/CRA-PWA
21 serviceWorker.unregister();

```

6. Kemudian para src membuat folder baru bernama reducers, pada folder reducers membuat file baru bernama filterReducers.js dan menuliskan kode sebagai berikut

```

1  import {
2    SHOW_ALL,
3    SET_VISIBILITY_FILTER
4  } from "../Action/actionTypes";
5
6  const visibilityFilter = (state = SHOW_ALL, action) => {
7    switch (action.type) {
8      case SET_VISIBILITY_FILTER:
9        return action.filter;
10     default:
11       return state;
12    }
13  };
14
15  export default visibilityFilter;

```

7. Kemudian pada folder reducers membuat file baru bernama todoReducers.js dan menuliskan kode sebagai berikut

```

1  import {
2      ADD_TODO,
3      REMOVE_TODO,
4      TOGGLE_TODO
5  } from '../Action/actionTypes'
6
7  const INITIAL_DATA = []
8
9  const TodoReducer = (state = INITIAL_DATA, action) => {
10     switch (action.type) {
11         case ADD_TODO:
12             return [
13                 ...state, {
14                     id: action.id,
15                     text: action.text,
16                     completed: false,
17                 }
18             ]
19         case TOGGLE_TODO:
20             return state.map(todo =>
21                 (todo.id === action.id)
22                 ? { ...todo, completed: !todo.completed }
23                 : todo)
24         case REMOVE_TODO:
25
26             const numIndex = parseInt(action.id)
27             return state.filter(todo => todo.id !== numIndex);
28         default:
29             return state
30     }
31 }
32
33 export default TodoReducer

```

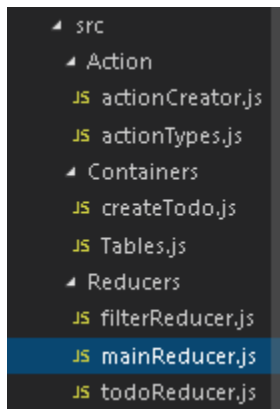
8. Kemudian pada folder container membuat file baru bernama mainReducers.js dan menuliskan kode sebagai berikut.

```

1  import { combineReducers } from 'redux'
2  import todos from './todoReducer'
3  import visibilityFilter from './filterReducer'
4
5  export default combineReducers({
6      todos,
7      visibilityFilter
8  })

```

9. Sehingga susunan folder dan file sebagai berikut



10. Kemudian melakukan run pada package

1. All
2. Completed
3. Active

Todos Actions

Satria

Putra

Sabana