

TUGAS PERORANGAN

LAPORAN MINGGU 7 REDUX

Disusun sebagai

MATA KULIAH: PEMROGRAMAN BERBASIS FRAMEWORK

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PROGRAM STUDI: D-IV TEKNIK INFORMATIKA

JURUSAN: TEKNOLOGI INFORMASI

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1. actionCreator

```
src > Action > actionCreator.js > ...
1  import {ADD_TODO, REMOVE_TODO, TOGGLE_TODO, SET_VISIBILITY_FILTER} from './actionTypes';
2
3
4  let TodoId = 2
5
6  export const addTodo = text =>({
7    type: ADD_TODO,
8    id: TodoId++,
9    text
10 })
11
12 export const deleteTodo = (id) =>({
13   type: REMOVE_TODO,
14   id:id
15 })
16
17 export const toggleTodo = (id) => ({
18   type: TOGGLE_TODO,
19   id:id
20 })
21
22 export const setVisibilityFilter = filter =>({
23   type: SET_VISIBILITY_FILTER,
24   filter
25 })
```

Action creator berfungsi untuk melakukan penambahan, penghapusan, penandaan, dan memfilter data.

2. actionTypes

```
src > Action > actionTypes.js > SHOW_ACTIVE
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'
```

Pada file ini terdapat sebuah variabel const yang bertujuan untuk melakukan berbagai jenis aksi

3. createTodo

```
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 = {
10       todotext:'',
11     }
12     this.onChangeTodoText = this.onChangeTodoText.bind(this)
13   }
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.addTodo(this.state.todotext); this.setState({todotext:''})
31             this.props.addTodo(this.state.todotext); this.setState({todotext:''})
32             }} style={{marginTop: "25px"}} className="btn btn-success">Add Todo</button>
33         </div>
34       </div>
35     )
36   }
37
38   const mapDispatchToProps = (dispatch) =>{
39     return bindActionCreators({
40       addTodo
41     }, dispatch)
42   }
43
44   export default connect(null, mapDispatchToProps)(CreateTodo)
```

File createTodo berguna untuk menambahkan data yang nantinya akan dipass ke table

4. Table

```
1 import React, {Component} from "react";
2 import {connect} from 'react-redux';
3 import {deleteTodo,
4   toggleTodo,
5   setVisibilityFilter} from '../Action/actionCreator';
6 import {SHOW_ALL, SHOW_COMPLETED, SHOW_ACTIVE} from '../Action/actionTypes';
7 import {bindActionCreators} from 'redux';
8
9 class Table extends Component {
10   render() {
11     return (
12       <div className="col-lg-10 offset-lg-1 col-md-10 col-sm-12 col-xs-12">
13         <nav style={{marginTop: "60px"}}>
14           <ol className="breadcrumb">
15             <li className={"breadcrumb-item"+(this.props.visibilityFilter === SHOW_ALL ? 'active':'')}>
16               All</li>
17             <li className={"breadcrumb-item"+(this.props.visibilityFilter === SHOW_COMPLETED ? 'active':'')}>
18               Completed</li>
19             <li className={"breadcrumb-item"+(this.visibilityFilter === SHOW_ACTIVE ? 'active':'')}>
20               Active</li>
21           </ol>
22         </nav>
23         {this.props.todos.length !== 0 ? (
24           <table style={{marginTop:"60px"}} className="table table-hover table-dark">
25             <thead>
26               <tr>
27                 <th scope="col">Todos</th>
28                 <th scope="col">Actions</th>
29               </tr>
30             </thead>

```

```

30     </thead>
31     <tbody>
32       {this.props.todos.map(todo => {
33         <tr key={todo.id}>
34           <td style={{textDecoration: todo.completed ? "line-through": "none"}}>
35             {todo.text} {todo.completed === true ? "(completed)": ""}
36           </td>
37           <td>
38             <span className="fa fa-minus-circle"
39               onClick={() => this.props.deleteTodo(todo.id)}
40               style={{color: "white",
41                 fontSize: "20pt",
42                 marginRight: "20px"}}/>
43             <span className="fa fa-check-circle"
44               onClick={() => this.props.toggleTodo(todo.id)}
45               style={{color: "white", fontSize: "20pt"}}/>
46           </td>
47         </tr>
48       )}
49     </tbody>
50   </table>
51 ) : (
52   <div style={{ margin: "50px 0 }} className="col-lg-10 col-md-10 col-xs-12 col-sm-12 offset-lg-1">
53     <div className="alert alert-danger role="alert">
54       Todo list is empty or Filter results show no results
55     </div>
56   </div>
57 )}{" "}
58 </div>
59
64 const getVisibleTodos = (todos, filter) => {
65   switch (filter) {
66     case SHOW_ALL:
67       return todos;
68     case SHOW_COMPLETED:
69       return todos.filter(t => t.completed);
70     case SHOW_ACTIVE:
71       return todos.filter(t => !t.completed);
72     default:
73       throw new Error("Unknown Filter: " + filter);
74   }
75 };
76
77 const mapStateToProps = state => {
78   return { todos: getVisibleTodos(state.todos, state.visibilityFilter),
79     visibilityFilter: state.visibilityFilter
80   };
81 };
82
83 const mapDispatchToProps = dispatch => {
84   return bindActionCreators(
85     [
86       deleteTodo,
87       toggleTodo,
88       setVisibilityFilter
89     ],
90     dispatch
91   );

```

Pada file table ini data yang di pass dari file createTodo akan ditampilkan pada halaman table

5. Hasil dari program diatas

Todos	Actions
mandi	⊖ ⊕
makan	⊖ ⊕
minum	⊖ ⊕
tidur	⊖ ⊕

User menginputkan data atau aktifitas pada form input lalu jika diklik maka form inputan akan kosong, jika tombol add todo di klik maka data aktifitas yang ada pada form akan disimpan dan ditampilkan pada table. Diatas table terdapat sebuah navbar dan terdapat link all untuk menampilkan semua data baik yang sudah completed maupun yang masih aktif, pada link completed terdapat data yang suda dicentang , untuk todos yang masih aktif akan tamplikan pada link active