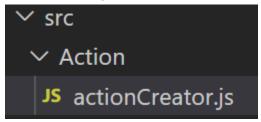
LAPORAN PRAKTIKUM MINGGU 7 REDUX

1. Install redux dengan cara 'npm install react-redux' kemudian enter

```
D:\semester 6\minggu7>npm install react-redux
npm WARN rollback Rolling back readable-stream@2.3.6 failed
(this is probably harmless): EPERM: operation not permitted,
lstat 'D:\semester 6\minggu7\node modules\watchpack\node mo
dules\fsevents\node modules'
npm WARN eslint-config-react-app@5.2.0 requires a peer of es
lint-plugin-flowtype@3.x but none is installed. You must ins
tall 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 dep
endencies 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 pl
atform 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 pl
atform for fsevents@1.2.11: wanted {"os":"darwin", "arch": "an
y"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2
```

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



3. Ketikan code berikut pada file actionCreator.js

```
import {
    ADD_TODO,
    REMOVE_TODO,
    TOGGLE_TODO,
    SET_VISIBILITY_FILTER
} from "./actionsTypes";

let TodoId = 2;

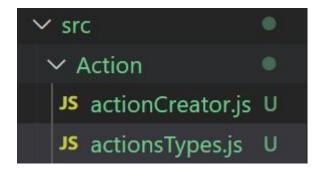
export const addTodo = text => ({ type: ADD_TODO, id: TodoId++, text });

export const deleteTodo = id => ({ type: REMOVE_TODO, id: id });

export const toggleTodo = id => ({ type: TOGGLE_TODO, id: id });

export const setVisibilityFilter = filter => ({ type: SET_VISIBILITY_FILTER, filter
});
```

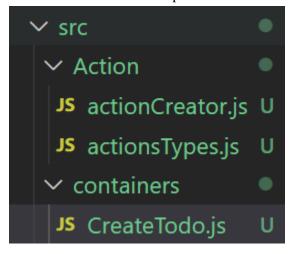
4. Buat file 'actionsTypes.js' pada folder Action



5. Ketikkan code berikut pada file actionsTypes.js

```
export const ADD_TODO = "ADD_TODO";
export const TOGGLE_TODO = "TOGGLE_TODO";
export const REMOVE_TODO = "REMOVE_TODO";
export const SHOW_ALL = "SHOW_ALL";
export const SHOW_COMPLETED = "SHOW_COMPLETED";
export const SHOW_ACTIVE = "SHOW_ACTIVE";
export const SET VISIBILITY FILTER = "SET VISIBILITY FILTER";
```

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



7. Ketikkan code berikut

```
import React, { Component } from "react";
import { connect } from "react-redux";
import { addTodo } from "../Action/actionCreator";
import { bindActionCreators } from "redux";

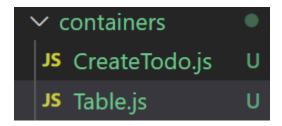
class CreateTodo extends Component {
  constructor(props) {
    super(props);
    this.state = {
      todotext: ""
    };
    this.onChangeTodoText = this.onChangeTodoText.bind(this);
}

onChangeTodoText(e) {
  this.setState({
    todotext: e.target.value
  });
```

```
render() {
    return (
      <div className="form-group row">
        <div className="col-sm-10">
          <input</pre>
            onChange={this.onChangeTodoText}
            value={this.state.todotext}
            type="text"
            className="form-control"
            id="inputEmail3"
            placeholder="add todo here"
          <button
            type="button"
            onClick={() => this.setState({ todotext: "" })}
            style={{ marginTop: "25px", marginRight: "15px" }}
            className="btn btn-danger"
            Cancel
          </button>
          <button
            type="button"
            onClick={() => {
              this.props.addTodo(this.state.todotext);
              this.setState({ todotext: "" });
            }}
            style={{ marginTop: "25px" }}
            className="btn btn-success"
            Add Todo
          </button>
        </div>
    );
const mapDispatchToProps = dispatch => {
 return bindActionCreators(
      addTodo
    dispatch
```

```
);
};
export default connect(null, mapDispatchToProps)(CreateTodo);
```

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



9. Ketikkan code berikut

```
import React, { Component } from "react";
import { connect } from "react-redux";
import {
 deleteTodo,
 toggleTodo,
 setVisibilityFilter
} from "../Action/actionCreator";
import { SHOW_ALL, SHOW_COMPLETED, SHOW_ACTIVE } from "../Action/actionsTypes";
import { bindActionCreators } from "redux";
class Table extends Component {
 render() {
   return (
     <div className="col-lg-10 offset-lg-1 col-md-10 col-sm-12 col-xs-12">
       <nav style={{ marginTop: "60px" }}>
         <1i
             className={
               "breadcrumb-item " +
               (this.props.visibilityFilter === SHOW_ALL ? "active" : "")
             onClick={() => this.props.setVisibilityFilter(SHOW ALL)}
             A11
           <1i
             className={
               "breadcrumb-item " +
```

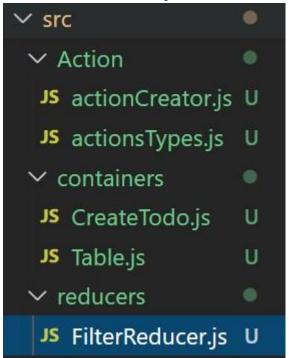
```
(this.props.visibilityFilter === SHOW COMPLETED ? "active" : "")
     onClick={() => this.props.setVisibilityFilter(SHOW_COMPLETED)}
     Completed
   <1i
     className={
       "breadcrumb-item " +
       (this.props.visibilityFilter === SHOW_ACTIVE ? "active" : "")
     onClick={() => this.props.setVisibilityFilter(SHOW ACTIVE)}
     Active
   </nav>
{this.props.todos.length !== 0 ? (
 <table
   style={{ marginTop: "60px" }}
   className="table table-hover table-dark"
   <thead>
       Todos
       Actions
     </thead>
   {this.props.todos.map(todo => (
       style={{
            textDecoration: todo.completed ? "line-through" : "none"
          }}
          {todo.text} {todo.completed === true ? "(completed)" : ""}
         <span
            className="fas fa-minus-circle"
            onClick={() => this.props.deleteTodo(todo.id)}
            style={{
              color: "white",
              fontSize: "20pt",
```

```
marginRight: "20px"
                     }}
                   <span
                     className="fas fa-check-circle"
                     onClick={() => this.props.toggleTodo(todo.id)}
                     style={{ color: "white", fontSize: "20pt" }}
                 ))}
           <div
           style={{ marginTop: "50px" }}
           className="col-lg-10 col-md-10 col-xs-12 col-sm-12 offset-lg-1"
           <div className="alert alert-danger" role="alert">
             Todo List is empty or Filter results show no results
           </div>
         </div>
       )}{" "}
     </div>
   );
const getVisibleTodos = (todos, filter) => {
 switch (filter) {
   case SHOW ALL:
      return todos;
   case SHOW COMPLETED:
     return todos.filter(t => t.completed);
   case SHOW ACTIVE:
      return todos.filter(t => !t.completed);
   default:
      throw new Error("Unknown filter: " + filter);
};
const mapStateToProps = state => {
 return {
   todos: getVisibleTodos(state.todos, state.visibilityFilter),
   visibilityFilter: state.visibilityFilter
```

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

```
import React from "react";
import ReactDOM from "react-dom";
import { Provider } from "react-redux";
import { createStore, compose } from "redux";
import MainReducer from "./reducers/MainReducer";
import './index.css';
import App from "./App";
import 'bootstrap/dist/css/bootstrap.css';
import * as serviceWorker from './serviceWorker';
// import registerServiceWorker from "./serviceWorker";
const store = compose(
 window.devToolsExtension ? window.devToolsExtension() : f => f
)(createStore)(MainReducer);
ReactDOM.render(
 <Provider store={store}>
   <App />
 </Provider>,
 document.getElementById("root")
serviceWorker.unregister();
```

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



12. Kemudian ketikkan code berikut

```
import { SHOW_ALL, SET_VISIBILITY_FILTER } from "../Action/actionsTypes";

const visibilityFilter = (state = SHOW_ALL, action) => {
    switch (action.type) {
      case SET_VISIBILITY_FILTER:
        return action.filter;
      default:
        return state;
    }
};

export default visibilityFilter;
```

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



14. Ketikkan code berikut

```
import { ADD_TODO, REMOVE_TODO, TOGGLE_TODO } from "../Action/actionsTypes";
const INITIAL_DATA = [];
const TodoReducer = (state = INITIAL_DATA, action) => {
 switch (action.type) {
    case ADD_TODO:
      return [...state, { id: action.id, text: action.text, completed: false }];
   case TOGGLE_TODO:
      return state.map(todo =>
        todo.id === action.id ? { ...todo, completed: !todo.completed } : todo
      );
   case REMOVE_TODO:
      const numIndex = parseInt(action.id);
      return state.filter(todo => todo.id !== numIndex);
    default:
      return state;
};
export default TodoReducer:
```

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



16. Ketikkan code berikut

```
import { combineReducers } from "redux";
import todos from "./TodoReducer";
import visibilityFilter from "./FilterReducer";
export default combineReducers({ todos, visibilityFilter });
```

17. Edit file app.js seperti berikut

18. Untuk tema css yang menarik, copy-paste link ini pada file 'index.html'

```
k
     rel="stylesheet"
     href="https://use.fontawesome.com/releases/v5.1.0/css/all.css"
     integrity="sha384-
lKuwvrZot6UHsBSfcMvOkWwlCMgc0TaWr+30HWe3a4ltaBwTZhyTEggF5tJv8tbt"
     crossorigin="anonymous"
   link
     rel="stylesheet"
     href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.1/css/bootstrap.min.
css"
     integrity="sha384-
WskhaSGFgHYWDcbwN70/dfYBj47jz9qbsMId/iRN3ewGhXQFZCSftd1LZCfmhktB"
     crossorigin="anonymous"
   <style>
      .breadcrumb-item.active {
       color: #dc3545;
   </style>
```

add todo here					
Consol	Addrese				
Cancel	Add Todo				

All / Completed / Active

Todos	Actions
Agik (completed)	• •
project 1	• •
project 2	• •