## **TUGAS INDIVIDU**

## PEMROGRAMAN BERBASIS FRAMEWORK

"Redux"



oleh:

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TI-3A

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

2020

## Praktikum

- 1. Membuat folder di dalam src yaitu folder Action
- 2. Membuat file di dalam folder **Action** dengan nama **actionCreator.js**

```
EXPLORER
                                                                                                                    JS CreateTodo.js
                                                                                                                                                                                              JS index.js
                                                                                                                                                                                                                                                               JS actionCreator.js X
                                                                                                                   my-app > src > Action > JS actionCreator.js > ...

✓ OPEN EDITORS

                                                                                                                        import { ADD_TODO, REMOVE_TODO, TOGGLE_TODO, SET_VISIBILITY_FILTER } from
               JS CreateTodo.js my-a... U
       JS index.js my-app\src U 2 './actionsTypes 

X JS actionCreator.js my... U 3 let TodoId = 2
6 id: TodoId++,
                                                                                                                                              text
                                                                                     8 })
9 export const delete
10 type: REMOVE_TODO,
11 id: id
                                                                                                                          9 export const deleteTodo = (id) => ({

✓ src

v Action

JS actionCreator.js U

JS actionsTypes.js U

JS ac
                                                                                     U 15 -id: id
                 JS CreateTodo.js
               JS Table.js U 16 })

v reducers 17 export const setVisibilityFilter == filter => ({

us FilterReducer.js U 18

us MainReducer.js U 20 })
              reducers
                  JS TodoReducer.js U
```

3. Membuat file di dalam folder Action dengan nama actions Types.js

```
my-app > src > Action > JS actionsTypes.js > [@] SET_VISIBILITY_FILTER

∨ OPEN EDITORS

                 - -
                              1 export const ADD_TODO = 'ADD_TODO'
    JS CreateTodo.js my-a... U
                                 2 export const TOGGLE_TODO = 'TOGGLE_TODO'
    JS index.js my-app\src U
                               3 export const REMOVE_TODO = 'REMOVE_TODO'
4 export const SHOW_ALL = 'SHOW_ALL'
 X JS actionCreator.js my... U
 x Js actionsTypes.js my-... U 5 export const SHOW_COMPLETED = 'SHOW_COMPLETED'

✓ 28-TIKAYULIANTI-TI3A-PBF-REDUX

                               6 export const SHOW_ACTIVE = 'SHOW_ACTIVE'
                               7 export const SET_VISIBILITY_FILTER = 'SET_VISIBILITY_FILTER'
  > public

✓ src

   Action
  JS actionCreator.js U
    JS actionsTypes.js
   containers
```

- 4. Kemudian menambahkan folder dengan nama containers didalam src
- 5. Membuat file di dalam folder **containers** dengan nama **CreateTodo.js**

```
✓ OPEN EDITORS

                                                                             my-app > src > containers > JS CreateTodo.js > 😭 CreateTodo > 🕥 onChangeTodoText
   Js actionCreator.js my... U
Js actionsTypes.js my-... U
Js actionsTypes.js my-...
  6    constructor(props){
7    super(props)
                                                                                                     super(props)
                                                                                                    this.state = {
                                                                                                    todotext: '',

✓ src

                                                                                                      this.onChangeTodoText = this.onChangeTodoText.bind(this)
         V Action 12

JS actionCreator.js U 13

JS actionsTypes.js U 14
                                                                                                     onChangeTodoText(e){
                                                                                                     this.setState({

∨ containers

■

                                                                                                     todotext: e.target.value
                                                                                                    })
}
           JS CreateTodo.js U 16
JS Table.js U 17

        JS serviceWorker.js
        U
        30

        JS setupTests.js
        U
        31
        );

        • .gitignore
        U
        32
        )

   () package-lock.json U 33 }
() package.json U 35 | re
                                                                                              const mapDispatchToProps = (dispatch) => {
                                                                                                    return bindActionCreators({
   ③ README.md♦ .gitignore
                                                                                                 addTodo
                                                                                                   }, dispatch)
  () package-lock.json u 38
                                                                                                    export default connect(null, mapDispatchToProps)(CreateTodo)
```

6. Membuat file di dalam folder containers dengan nama Table.js

```
∨ OPEN EDITORS 🕒 🗐 📵 my-app > src > containers > 🥦 Table.js > ..
          X JS Table js my-app\src\... U

JS index.js my-app\src\... U

X JS actionCreator.js my... U

Y 28-TIKAYULIANTI-TIBA-PBF-REDUX

Y my-app

7 } from "../actions/actionCreator";
        // S rode_modules // SHOW_ALL, SHOW_COMPLETED, SHOW_ACTIVE } from "../actions/actionsTypes";

> public // Show_Completed // Show_ActionCreators } from "redux";

> src // Action // SactionCreator, Show_Component {

- Action // SactionCreator, Show_Component {

- Vender() {

- Is actionCreator, Show_Component {

- Vender() {

- Is actionCreator, Show_Component {

- Vender() {

- 
      > public
   JS FilterReducer.js U
          JS MainReducer.js U

JS TodoReducer.js U

# App.css U
                                                                                  24    className={"breadcrumb-item "+ (this.props.visibilityFilter ===
25    SHOW_COMPLETED ? 'active' : '') }
26    lonClick={() -> this.props.setVisibilityFilter(SHOW_COMPLETED)}
         JS App.is
        JS App.test.js
                                                                                                       Completed
                                                              U 29 
U 30 
U 31 className={"breadcrumb-item-"+ (this.props.visibilityFilter-=== SHOW_ACTIVE-?"
        🚹 logo.svg
       JS serviceWorker.js U
JS setupTests.js U

♦ .gitignore U
                                                                                          32 'active'::''):}
33 'onClick={():=>:this.props.setVisibilityFilter(SHOW_ACTIVE)}
      () package-lock.json U
     () package.json
                                                                                                              Active

 README.md

    .gitignore
  () package-lock.json U 38
39
                                                                                                              {this.props.todos.length !== 0 ? (
> OUTLINE
```

```
✓ OPEN EDITORS

                         my-app > src > containers > JS Table.js > ...
   JS CreateTodo.js my-a... U 40 <a href="table">40</a>
                                  style={{ marginTop: "60px" }}
                                  className="table table-hover table-dark"
✓ 28-TIKAYULIANTI-TISA-PBF-REDUX 45
 my-app
                                  Todos
                                  Actions
  > public

    ✓ Action
    Js actionCreator.js U
    Js actionsTypes.js U
    ✓ containers

                                  {this.props.todos.map(todo => (
                                  style={{
                                  textDecoration: todo.completed ? "line-through" : "none"
            U 56
57
    JS Table.js
                                  {todo.text} {todo.completed === true ? "(completed)" : ""}
                                  className="fas fa-minus-circle"
                                  onClick={() => this.props.deleteTodo(todo.id)}
                               style={{
  JS App.test.js
# index.css
                                  fontSize: "20pt",
  JS index.js
                                  marginRight: "20px"
  fallogo.svg
  JS setupTests.js U 70
                                  className="fas-fa-check-circle"
  gitignore
                                  onClick={() => this.props.toggleTodo(todo.id)}
 () package-lock.json U
 () package,json U 73
                                  style={{ color: "white", fontSize: "20pt" }}
 gitignore
 () package-lock.json U
> OUTLINE
```

```
my-app > src > containers > JS Table.js > ...
✓ OPEN EDITORS
   className="col-lg-10 col-md-10 col-xs-12 col-sm-12 offset-lg-1"
          JS index.js my-app\src U 85 \ <div className="alert-alert-danger" role="alert">
JS actionCreator.js my... U 86 \ Todo List is empty or Filter results show no results alert-danger".
 JS actionCreator.JS my... U 86 Todo List is empty or Filter results show no results 28-TikAYULIANTI-TIBA-PBF-REDUX 87 </div>

    ✓ my-app
    > node_modules
    89

 JS actionCreator, S U 94 \( \sigma \const\) const\ getVisibleTodos = \( (todos, \cdot filter) \) => \( \{ \sigma \const\} \) switch \( (filter) \cdot \{ \sigma \const\} \) containers \( 96 \) case \( SHOW_ALL: \) return \( todos; \) \( \const\} \) 38 \( \const\} \) Table, S \( \sigma \const\} U \) \( \sigma \const\} \) reducers \( \sigma \const\} \) 100 \( \const\} \) Table, S \( \const\} \) Table, S \( \const\} \) 100 \( \const\} \) Table, S \( \const\} \) 100 \( \const\} \) Table, S \( \const\} \) 100 \( \const\} \) Table, S \( \const\} \) 100 \( \const\} \) Table, S \( \const\} \) 100 \( \const\} \( \const\} \) 100 \( \const\} \) 100 \( \const\} \( \const\} \) 100 \( \const\} \( \const\} \) 100 \( \const\} \) 100 \( \const\} \( \const\} \) 100 \( \const\} \( \const\} \) 100 \( \const\} \) 100 \( \const\} \( \const\} \\  \( \const\} \\  \const\} \\  \const\} \\  \( \const\} \\  \const\} \\  \( \const\} \\  \const\} \\  \const\} \\  \( \const\} \\  \\
          JS FilterReducer.js U
         JS TodoReducerjs U 103 throw new Error("Unknown filter: " + filter);
      # App.css U 104 |}

s App.js U 105 };

105 App.test.js U 106 \constrainapStateToProps = state \constrainapState.visibilityFilter),

# index.css U 108 \constrainapState.visibilityFilter: \constrainapState.visibilityFilter),

# index.css U 109 };
    JS index.js U 109 };

n logo.svg U 110 };

JS serviceWorker.js U 111 \constranpDispatchToProps = dispatch => {

IS setupTests.js U 112 \constranpDispatchToProps = dispatch => {

In return bindActionCreators(

Is gitignore U 114 \cdot deleteTodo,

Is setupTests.js U 115 \cdot deleteTodo,

Is setupTests.js U 116 \cdot deleteTodo,
  () package-lock.json U 115 toggleTodo,
() package.json U 116 setVisibili
() README.md U 117 },
                                                                                                              setVisibilityFilter
   () package-lock.json U 119
                                                                                                              export default connect(mapStateToProps, mapDispatchToProps)(Table);
  OUTLINE
```

7. Mengedit index.js dengan source code sebagai berikut:

```
JS CreateTodo.is
                 JS Table.is
                             JS index.js X JS actionCreator.js
my-app > src > JS index.js > ...
  1 import React from 'react';
       import ReactDOM from 'react-dom';
      import { Provider } from 'react-redux'
      import { createStore, applyMiddleware, compose } from 'redux'
       import MainReducer from './reducers/MainReducer'
       import App from './App';
      import * as serviceWorker 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();
```

8. Membuat folder baru dengan nama **reducers** di dalam src

9. Membuat file baru di dalam folder reducers dengan nama FilterReducer.js

10. Membuat file baru di dalam folder reducers dengan nama TodoReducer.js

```
🗸 OP... | 1 UNSAVED 🕒 🕙 📵 my-app > src > reducers > J5 TodoReducer.js > 🙉 TodoReducer > 쉱 state.map() callback
                         1 // if you want to show initial data :)
    JS CreateTodo.js my-a... U
    JS Table.js my-app\src\... U
    JS index.js my-app\src U

    JS FilterReducer.js my... U

    Js FilterReducer.js my... U
    X Js TodoReducer.js my... U
    6 // - text: 'Walk the Dog',

28-TIKAYULIANTI-TI3A-PBF-REDUX 8 //-id:1,
  > public
                                  import { ADD_TODO, REMOVE_TODO, TOGGLE_TODO} from '../Action/actionsTypes'
    JS actionCreator,js U 14
                                  const INITIAL_DATA = []
                                  const TodoReducer = (state=INITIAL_DATA, action) => {
                                   switch (action.type){

✓ containers

                                  case ADD TODO:
                                  return [
   JS CreateTodo.js U 17
                                   ...state,{
    JS Table.js
                           19 id: action.id,

✓ reducers

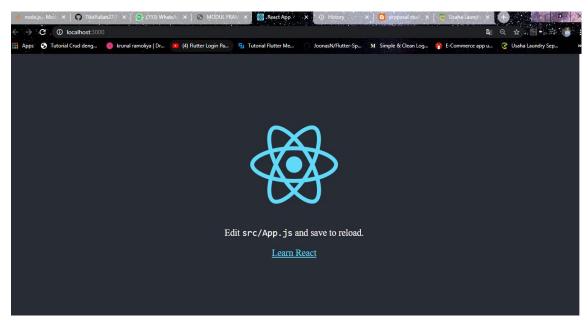
                           20 text: action.text,
                           21 completed: false,
   JS MainReducer.js U
   # App.css
                                  case TOGGLE_TODO:
   JS App.js
                                   return state.map(todo =>
                                   (todo.id === action.id)
   JS App.test.js
                                   ? {...todo, completed: !todo.completed}
   # index.css
                                   : todo
   JS index.js
   fallogo.svg
                    U 30 case REMOVE_TODO:
   JS serviceWorker.js U 31 const numIndex = parseInt(action.id)
                                   return state.filter(todo => todo.id !== numIndex);
   JS setupTests.js
                                   default:
  return state
  () package-lock.json
  () package.json U

 README.md

                                  export default TodoReducer
```

11. Membuat file baru di dalam folder reducers dengan nama MainReducer.js

12. Menjalankan program dengan cara **npm start** 



13. Selesai