TUGAS INDIVIDU

MODUL 6
REDUX

Disusun sebagai
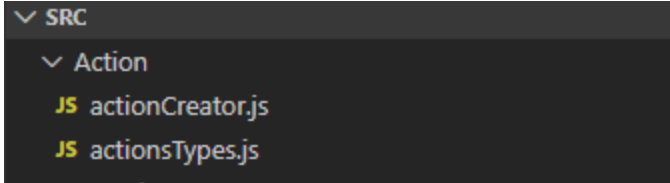MATA KULIAH : PEMROGRAMAN BERBASIS FRAMEWORK

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

A. Praktikum

1. Buat Folder dalam src yaitu Action

```
∨ SRC
  ∨ Action
    JS actionCreator.js
    JS actionsTypes.js
```

2. Buat file dan beri nama actionCreator.js

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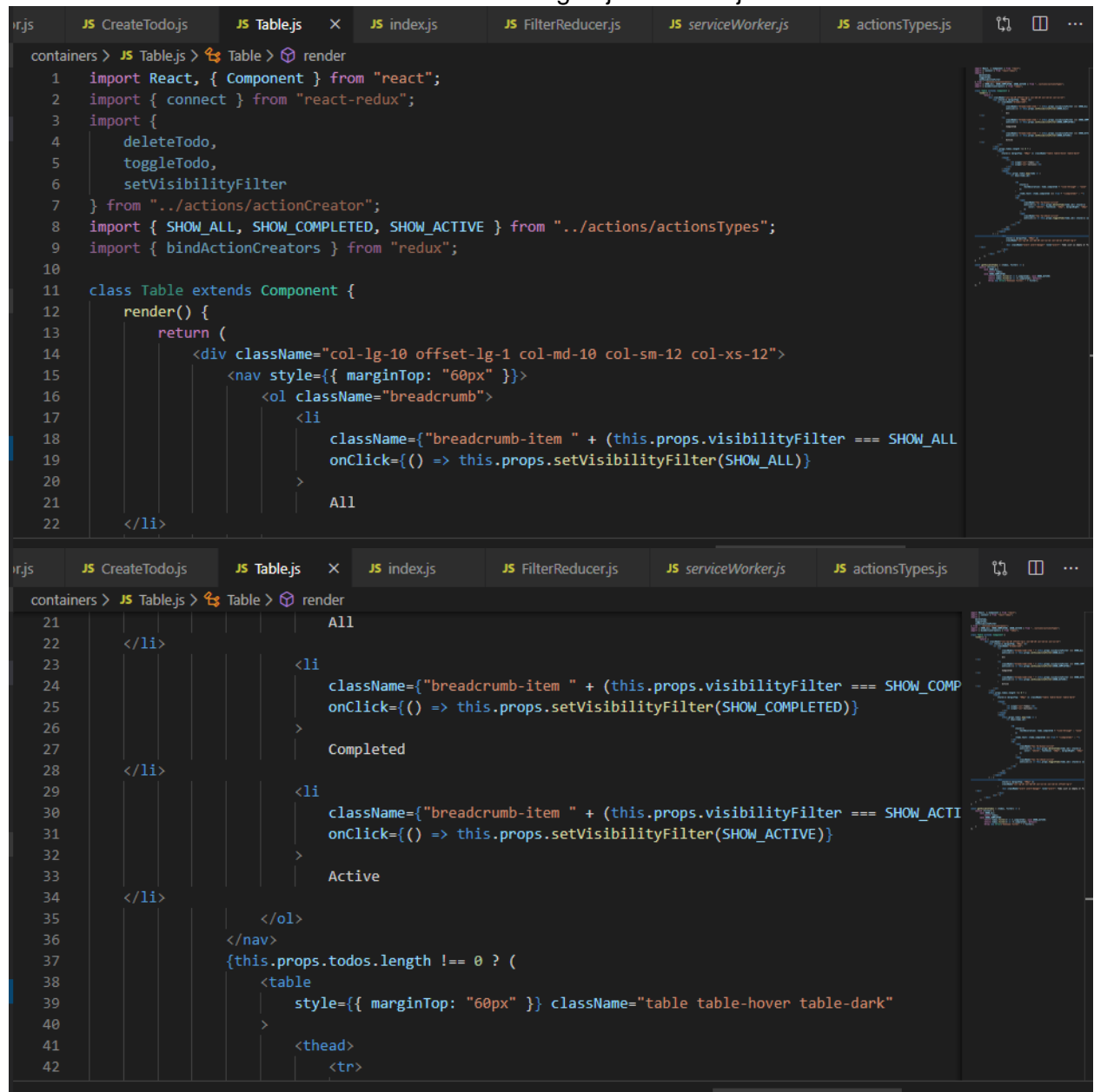
3. Masih dalam Folder Action buatlah file actionsTypes.js

```js
Action > JS actionsTypes.js > ...
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'
```

4. Kemudian dalam folder src buatlah folder dengan nama containers dan buatlah file dengan judul CreateTodo

```js
containers > JS CreateTodo.js > ...
1    import React, { Component } from 'react'
2    import { connect } from 'react-redux'
3    import { addTodo } from '../actions/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 (
```

5. Masih dalam folder containers buatlah file dengan judul Table.js

```javascript
1   import React, { Component } from "react";
2   import { connect } from "react-redux";
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={"breadcrumb-item " + (this.props.visibilityFilter === SHOW_ALL
19                              onClick={() => this.props.setVisibilityFilter(SHOW_ALL)}
20                          >
21                              All
22                      </li>
```

```javascript
21                              All
22                      </li>
23                          <li
24                              className={"breadcrumb-item " + (this.props.visibilityFilter === SHOW_COMP
25                              onClick={() => this.props.setVisibilityFilter(SHOW_COMPLETED)}
26                          >
27                              Completed
28                      </li>
29                          <li
30                              className={"breadcrumb-item " + (this.props.visibilityFilter === SHOW_ACTI
31                              onClick={() => this.props.setVisibilityFilter(SHOW_ACTIVE)}
32                          >
33                              Active
34                      </li>
35                      </ol>
36                  </nav>
37                  {this.props.todos.length !== 0 ? (
38                      <table
39                          style={{ marginTop: "60px" }} className="table table-hover table-dark"
40                      >
41                          <thead>
42                              <tr>
```

```
42                            <th scope="col">Todos</th>
43                            <th scope="col">Actions</th>
44                        </tr>
45                    </thead>
46                    <tbody>
47                    {this.props.todos.map(todo => (
48                        <tr key={todo.id}>
49
50
51                            <td
52                                style={{
53                                    textDecoration: todo.completed ? "line-through" : "none"
54                                }}
55                            >
56                                {todo.text} {todo.completed === true ? "(completed)" : ""}
57                            </td>
58                            <td>
59                                <span
60                                    className="fas fa-minus-circle"
61                                    onClick={() => this.props.deleteTodo(todo.id)} style={{
62                                        color: "white", fontSize: "20pt", marginRight: "20px"
```

```
77                            style={{ marginTop: "50px" }}
78                            className="col-lg-10 col-md-10 col-xs-12 col-sm-12 offset-lg-1"
79                        >
80                            <div className="alert alert-danger" role="alert"> Todo List is empty or Fi
81        </div>
82                        </div>
83                    )}{" "}
84                </div>
85            );
86        }
87    }
88
89    const getVisibleTodos = (todos, filter) => {
90        switch (filter) {
91            case SHOW_ALL:
92                return todos;
93            case SHOW_COMPLETED:
94                return todos.filter(t => t.completed); case SHOW_ACTIVE:
95                return todos.filter(t => !t.completed); default:
96                throw new Error("Unknown filter: " + filter);
97        }
98    };
```

6. Edit index.js dengan source code berikut ini

```js
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.register();
```

7. Buat folder dalam src dengan nama reducers dan beri nama file FilterReducer.js dan
   ketikkan program dibawah ini :

```js
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;
```
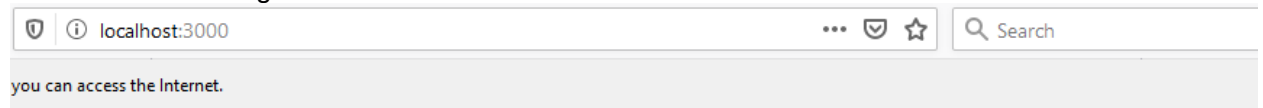
8. Masih didalam folder reducers buatlah file dengan namaTodoReducer.js

```js
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
    }
}
```

9. Buat file dengan nama MainReducer.js dan simpan

```js
import { combineReducers } from 'redux'
import todos from './TodoReducer'
import visibilityFilter from './FilterReducer'

export default combineReducers({
    todos,
    visibilityFilter
})
```

10.   Hasil running

React

- Home (current)
  - About