TUGAS PERORANGAN/INDIVIDU

LAPORAN JOBSHEET MINGGU 7

REDUX

Disusun Sebagai:

MATA KULIAH: PEMROGRAMAN BERBASIS FRAMEWORK

Oleh:

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TI-3B

PROGRAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

2020

1. Install Redux

    ```
    npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents
    ":"win32","arch":"x64"})
    npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\w
    npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents
    s":"win32","arch":"x64"})
    npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\w
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    s":"win32","arch":"x64"})
    npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\j
    npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents
    s":"win32","arch":"x64"})

    + redux@4.0.5
    added 2 packages from 1 contributor and audited 919180 packages in 63.15s

    found 302 moderate severity vulnerabilities
      run `npm audit fix` to fix them, or `npm audit` for details
    ```

2. Install React-Redux

    ```
    npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\w
    npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents
    s":"win32","arch":"x64"})
    npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\w
    npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents
    s":"win32","arch":"x64"})
    npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\j
    npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents
    s":"win32","arch":"x64"})

    + react-redux@7.2.0
    added 2 packages from 2 contributors and audited 919176 packages in 78.096s
    52 packages are looking for funding
      run `npm fund` for details

    found 302 moderate severity vulnerabilities
      run `npm audit fix` to fix them, or `npm audit` for details
    ```

3. Membuat Folder action

    ```
    ∨ mohkhoirularifin-ming...  ●
      > node_modules
      > public
      ∨ src                      ●
        ∨ action
          JS actionCreator.js
          JS actionsTypes.js
    ```

    a. Membuat 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
})
```
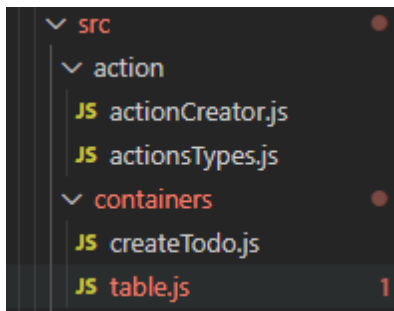
b. Membuat File actionsTypes.js

```
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'
```

4. Membuat Folder containers

a. Membuat File createTodo.js

```
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-xl-5 col-lg-6 col-md-8 col-
sm-10 mx-auto text-center form p-4">
                        <input  onChange={this.onChangeTodoText} valu
e={this.state.todotext} type="text" className="form-
control" id="inputEmail3" style={{textAlign: "center"}} placehold
er="add todo here"/>
                            <button type="button" onClick={ () => thi
s.setState({ todotext: '' }) } style={{marginTop: "25px", marginR
ight: "15px"}} className="btn btndanger">
                                Cancel
                            </button>
                            <button  type="button" onClick={() =>{thi
s.props.addTodo(this.state.todotext); this.setState({ todotext: '
' }) } }style={{marginTop: "25px"}} className="btn btn-success">
                                Add Todo
                            </button>
                    </div>
                </div>
            );
        }
}

const mapDispatchToProps = (dispatch) => {
    return bindActionCreators({
        addTodo
    }, dispatch)
}

export default connect(null, mapDispatchToProps)(createTodo)
```

b. Membuat File table.js

```
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" }}>
                    <ol className="breadcrumb">
                        <li
```

```
                            className={"breadcrumb-
item "+ (this.props.visibilityFilter === SHOW_ALL ? 'active' : ''
) }
                            onClick={() => this.props.setVisibilityFi
lter(SHOW_ALL)}
                            >
                                All
                            </li>
                            <li
                            className={"breadcrumb-
item "+ (this.props.visibilityFilter === SHOW_COMPLETED ? 'active
' : '') }
                            onClick={() => this.props.setVisibilityFi
lter(SHOW_COMPLETED)}
                            >
                                Completed
                            </li>
                            <li
                            className={"breadcrumb-
item "+ (this.props.visibilityFilter === SHOW_ACTIVE ? 'active' :
 '') }
                            onClick={() => this.props.setVisibilityFi
lter(SHOW_ACTIVE)}
                            >
                                Active
                            </li>
                    </ol>
                </nav>
                {this.props.todos.length !== 0 ? (
                    <table
                    style={{ marginTop: "60px" }}
                    className="table table-hover table-dark"
                    >
                        <thead>
                            <tr>
                                <th scope="col">Todos</th>
                                <th scope="col">Actions</th>
                            </tr>
                        </thead>
                        <tbody>
                        {this.props.todos.map(todo => (
                            <tr key={todo.id}>
                                <td
                                style={{
                                textDecoration: todo.completed ?
"line-through" : "none" }}
                                >
                                    {todo.text} {todo.completed =
== true ? "(completed)" : ""}
                                </td>
                                <td>
                                    <span
                                    className="fas fa-minus-
circle"
                                    onClick={() => this.props.del
eteTodo(todo.id)}
                                    style={{
                                    color: "white",
                                    fontSize: "20pt",
                                    marginRight: "20px"
                                    }}
```

```
                                    />
                                    <span
                                    className="fas fa-check-
circle"
                                    onClick={() => this.props.tog
gleTodo(todo.id)}
                                    style={{ color: "white", font
Size: "20pt" }}
                                    />
                                </td>
                            </tr>
                        ))}
                        </tbody>
                    </table>
                ):(
                    <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.visibilityFilte
r),
        visibilityFilter: state.visibilityFilter
    };
};

const mapDispatchToProps = dispatch => {
    return bindActionCreators({
        deleteTodo,
        toggleTodo,
        setVisibilityFilter
    },
    dispatch
    );
```

```
};

export default connect(mapStateToProps, mapDispatchToProps)(Table
);
```

5. Membuat Folder reducers
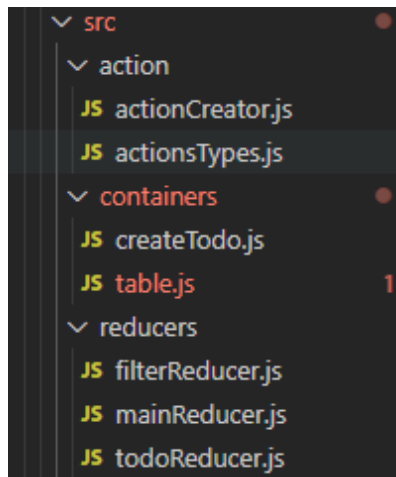
a. Membuat File filterReducer.js

```
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;
```

b. Membuat File todoReducer.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
    }
}

export default TodoReducer
```

c. Membuat File mainReducer.js

```
import { combineReducers } from 'redux'
import todos from './todoReducer'
import visibilityFilter from './filterReducer'

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

6. Installasi Font Awesome untuk menampilkan simbol complited dan delete

Saya menginstall ini agar icon remove dan centang bisa muncul pada tabel bagian action.

7. Mengubah index.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 Table from './containers/table'
import CreateTodo from './containers/createTodo'
import 'bootstrap/dist/css/bootstrap.min.css'
import '@fortawesome/fontawesome-free/css/all.min.css';

// import registerServiceWorker from './registerServiceWorker';
```
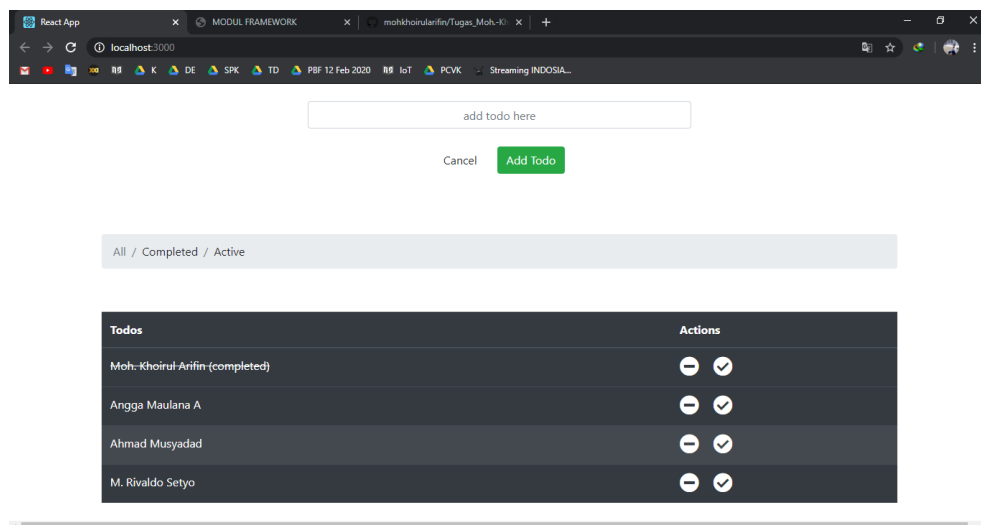
```
import * as serviceWorker from './serviceWorker';

const store = compose(window.devToolsExtension ? window.devToolsExten
sion() : f =>
f)(createStore)(MainReducer)

ReactDOM.render(<Provider store={store}>
    <CreateTodo/>
    <Table/>
</Provider>
, document.getElementById('root'));
// registerServiceWorker();
serviceWorker.unregister();
```
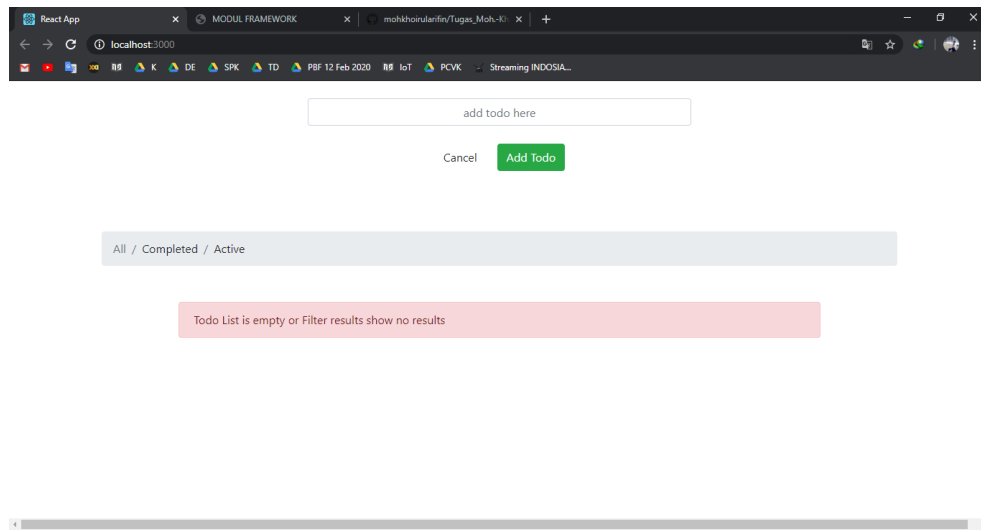
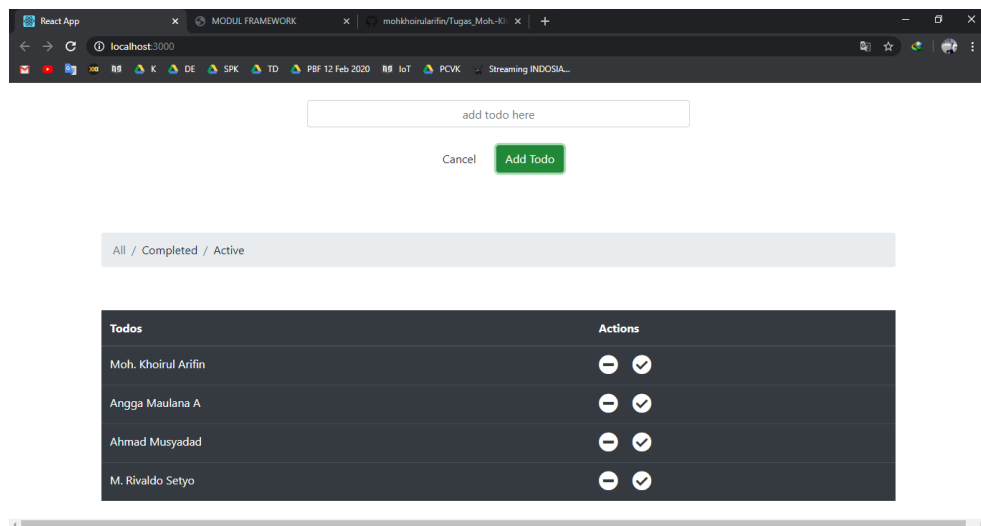Di bagian index saya sedikit merubahnya agar bisa menampikan CreateTodo, dan Table.

Saya juga menambahkan import untuk bootstrap dan import untuk icon centang dan

remove yang ada pada action.
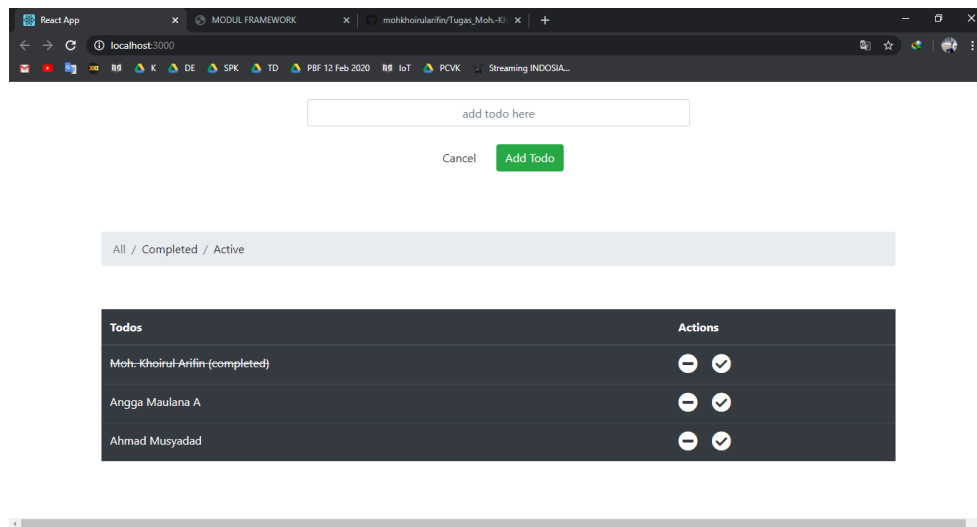
8. Output

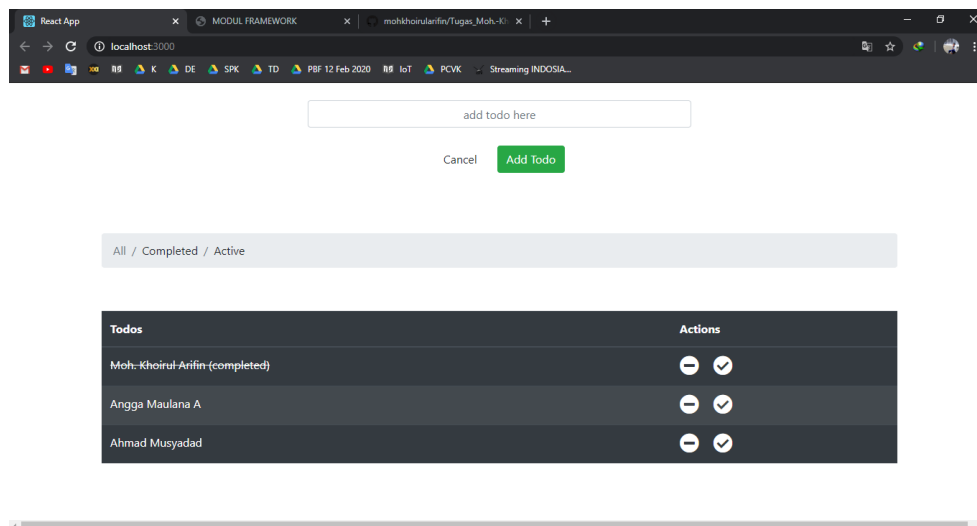a. Tampilan Awal

b. Tampilan Setelah Diisi
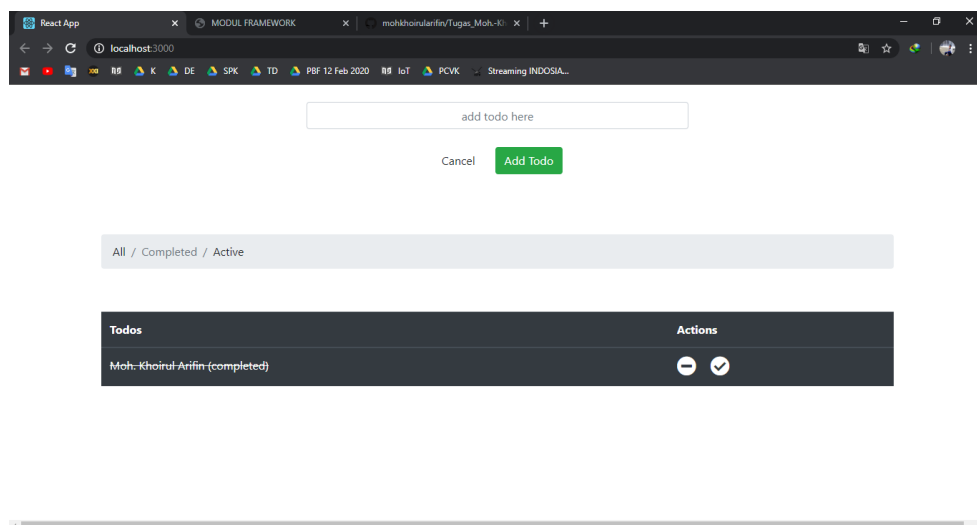

c. Tampilan Jika dicentang

d. Tampilan jika dihapus

e. Tampilan All

f. Tampilan Completed

g. Tampilan Active