

TUGAS PERORANGAN INDIVIDU

MODUL 6 - REDUX

Disusun sebagai

MATA KULIAH : PEMROGRAMAN BERBASIS FRAMEWORK

Oleh :

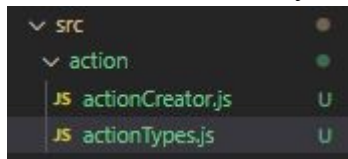
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3C / 18



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

1. Buat Folder dalam src yaitu Action



2. Beri nama actionCreator

```
action > JS actionCreator.js > ...
import { ADD_TODO, REMOVE_TODO, TOGGLE_TODO, SET_VISIBILITY_FILTER } from './actionTypes'

let TodoId = 2

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

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

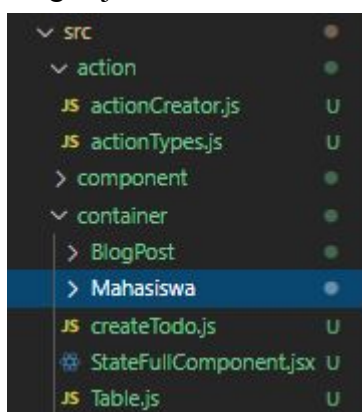
export const toggleTodo = (id) => ({
  type: TOGGLE_TODO,
  id: id
})

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

3. Masih dalam Folder Action buatlah file actionTypes.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. Kemudian dalam folder src buatlah folder dengan nama containers dan buatlah file dengan judul CreateTodo



```

container > JS createTodos.js > CreateTodo > onChangeTodoText
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 onChange={this.onChangeTodoText} value={this.state.todotext} type="text" className="form-control" id="inputEmail13" placeholder="" />
          <button type="button" onClick={() => this.setState({ todotext: '' })} style={{ marginTop: "25px", marginRight: "15px" }} className="btn btn-success">Add Todo</button>
        </div>
      </div>
    );
  }
}

```

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

```

container > JS Table.js > Table > render
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/actionTypes";
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.setVisibilityFilter(SHOW_ALL)}
            >
              All
            </li>
            <li
              className={"breadcrumb-item " + (this.props.visibilityFilter === SHOW_COMPLETED ? 'active' : '')}
              onClick={() => this.props.setVisibilityFilter(SHOW_COMPLETED)}
            >
              Completed
            </li>
            <li
              className={"breadcrumb-item " + (this.props.visibilityFilter === SHOW_ACTIVE ? 'active' : '')}
              onClick={() => this.props.setVisibilityFilter(SHOW_ACTIVE)}
            >
              Active
            </li>
          </ol>
        </nav>
      </div>
    );
  }
}

```

```

    </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.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" }}
              />
            </td>
          </tr>
        ))}
      </tbody>
    </table>
  ) : null}

```

```

        </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.visibilityFilter),
    visibilityFilter: state.visibilityFilter
  };
};
const mapDispatchToProps = dispatch => {
  return bindActionCreators(
    {
      deleteTodo,
      toggleTodo,
      setVisibilityFilter
    },
    dispatch
  );
};
export default connect(mapStateToProps, mapDispatchToProps)(Table);

```

6. Edit index.js dengan source code berikut ini

```

JS 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 registerServiceWorker from './registerServiceWorker';

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

ReactDOM.render(<Provider store={store}> <App /> </Provider>, document.getElementById('root')); registerServiceWorker();

```

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

```

v reducers
JS FilterReducer.js    U
JS MainReducer.js     U
JS TodoReducer.js     U

```

```

reducers > JS FilterReducer.js > default
import {
  SHOW_ALL,
  SET_VISIBILITY_FILTER
} from "../action/actionTypes";

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

```

8. Masih di dalam folder reducers buatlah file dengan nama TodoReducer.js


```

reducers > JS TodoReducer.js > [?] TodoReducer
import { ADD_TODO, REMOVE_TODO, TOGGLE_TODO } from '../action/'
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

```

9. Buat file dengan nama MainReducer.js dan simpan

```

reducers > JS MainReducer.js > ...
import { combineReducers } from 'redux'
import todos from './TodoReducer'
import visibilityFilter from './FilterReducer'
export default combineReducers({
  todos,
  visibilityFilter
})

```

10. Running semua program dengan npm start dan lihat hasilnya dan laporkan dalam laporan



Edit `src/App.js` and save to reload.

[Learn React](#)