

TUGAS INDIVIDU

Jobsheet 6

Redux

Pemrograman Berbasis Framework



Oleh :

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TI – 3A

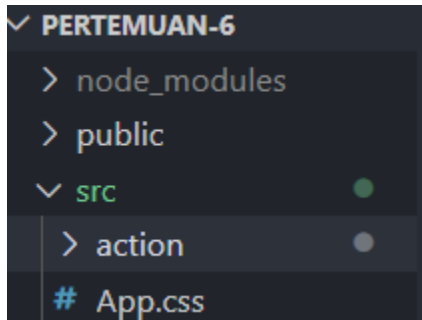
PROGRAM STUDI – D4 TEKNIK INFORMATIKA

JURUSAN – TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

2020/2021

1. Buat folder bernama Action dalam src



2. Buat file baru dalam folder action bernama actionCreator.js dan berisi code berikut

```
JS actionCreator.js X
src > action > JS actionCreator.js > [🔗] toggleTodo
1  import { ADD_TODO, REMOVE_TODO, TOGGLE_TODO,
   SET_VISIBILITY_FILTER } from './actionTypes';
2
3  let TodoId = 2;
4
5  export const addTodo = text => ({
6    type: ADD_TODO,
7    id: TodoId++,
8    text
9  })
10 export const deleteTodo = (id) => ({
11   type: REMOVE_TODO,
12   id: id
13 })
14 export const toggleTodo = (id) => ({
15   type: TOGGLE_TODO,
16   id: id
17 })
18 export const setVisibilityFilter = filter => ({
19   type: SET_VISIBILITY_FILTER,
20   filter
21 })
```

3. Buat file baru bernama actionTypes.js di dalam folder action

```
JS actionTypes.js X
action > JS actionTypes.js > [🔗] SET_VISIBILITY_FILTER
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 bernama containers dan buat file bernama CreateTodo.js

```
js JS CreateTodo.js X
containers > JS CreateTodo.js > [E] mapDispatchToProps
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 type="text" className="form-control" name="" id="" onChange={this.onChangeTodoText} value={this.state.todotext} placeholder="add todo here" />
          <button type="submit" onClick={ () => this.setState({todotext:''})} style={{marginTop:"25px",marginRight:"15px"}} className="btn btn-danger">Cancel</button>
          <button type="submit" onClick={ () => { this.props.addTodo(this.state.todotext); this.setState({todotext: ''})}} className="btn btn-success" style={{marginTop:"25px"}}>Add Todo</button>
        </div>
      </div>
    );
  }
}

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

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

5. Masih di folder yang sama buat file dengan nama Table.js

```
JS Table.js X
ntainers > JS Table.js > Table > render
import React 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_ACTIVE
              ? 'active' : '')} onClick={() => this.props.setVisibilityFilter(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: todoCompleted ? "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>
        )}
      </div>
    );
  }
}
```

```

    ): (
      <div 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 file index.js dengan kode berikut

```

js  X  JS Table.js
index.js > [?] store
import React from 'react';
import ReactDOM from 'react-dom';
import { Provider } from 'react-redux';
// eslint-disable-next-line
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 dengan nama reducers dan beri nama FilterReducer.js dan berisi kode dibawah

```
js FilterReducer.js X
reducers > JS FilterReducer.js > ...
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. Buat file lagi bernama TodoReducer.js di folder reducers

```
JS TodoReducer.js X
src > reducers > JS TodoReducer.js > [e] TodoReducer
2 // const INITIAL_DATA = [
3 //   {
4 //     id:0,
5 //     text: 'Walk the dog'
6 //   },
7 //   {
8 //     id:1,
9 //     text: 'Learn redux'
10 //   }
11 // ]
12 import { ADD_TODO, REMOVE_TODO, TOGGLE_TODO } from '../action/actionTypes';
13 const INITIAL_DATA = []
14
15 const TodoReducer = (state = INITIAL_DATA,action) => {
16   switch (action.type) {
17     case ADD_TODO:
18       return [
19         ...state,{
20           id: action.id,
21           text: action.text,
22           completed: false
23         }
24       ]
25     case TOGGLE_TODO:
26       return state.map(todo => (
27         todo.id === action.id ? {...todo,completed: !todo.completed} : todo
28       ))
29     case REMOVE_TODO:
30       const numIndex = parseInt(action.id)
31       return state.filter(todo => todo.id !== numIndex)
32     default:
33       break;
34   }
35 }
36 export default TodoReducer;
```

9. Buat file lagi dengan nama MainReducer.js

```
JS MainReducer.js X
src > reducers > JS MainReducer.js > ...
1  import { combineReducers } from 'redux';
2  import todos from './TodoReducer';
3  import visibilityFilter from './FilterReducer';
4
5  export default combineReducers({
6    todos,
7    visibilityFilter
8  })
```

10. Running program dengan npm start

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Compiled successfully!

You can now view **pertemuan-4** in the browser.


Local: http://localhost:3000
On Your Network: http://10.0.75.1:3000

Note that the development build is not optimized.
To create a production build, use `npm run build`.

⏏

tsikrialla/redux-jbs6 React App

localhost:3000



Edit src/App.js and save to reload.

[Learn React](#)