TUGAS INDIVIDU

PEMROGRAMAN BERBASIS FRAMEWORK

“Redux”

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TI-3A

PROGRAM STUDI D-IV TEKNIK INFORMATIKA

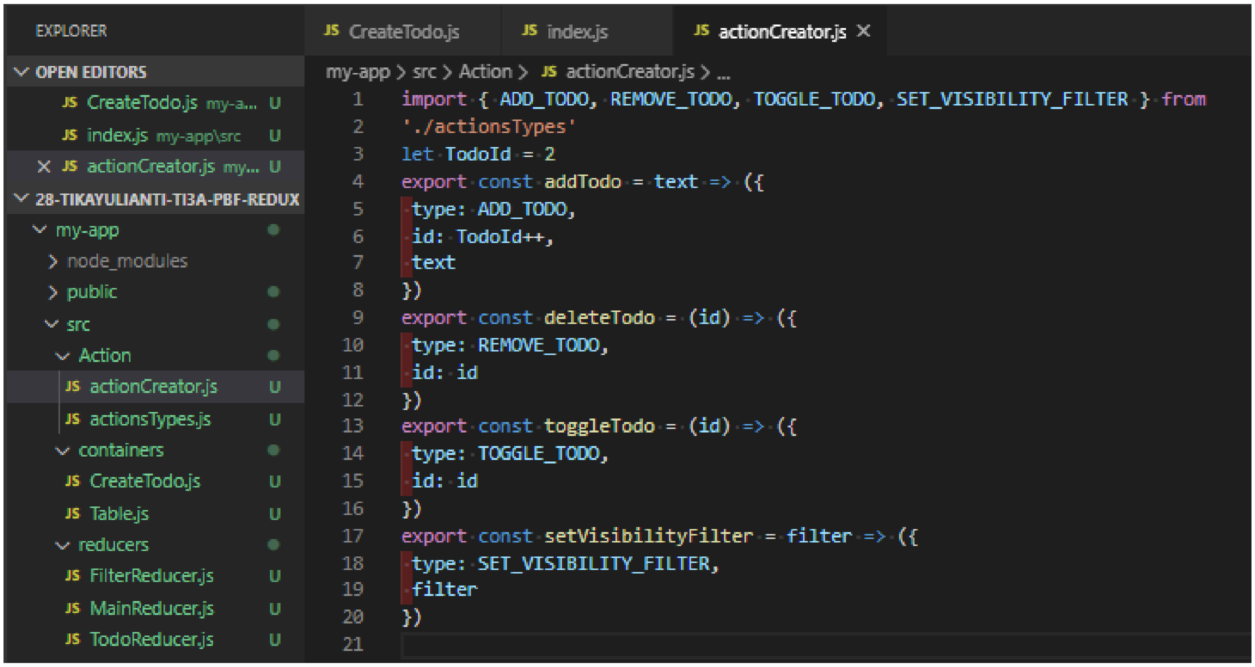
JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

2020

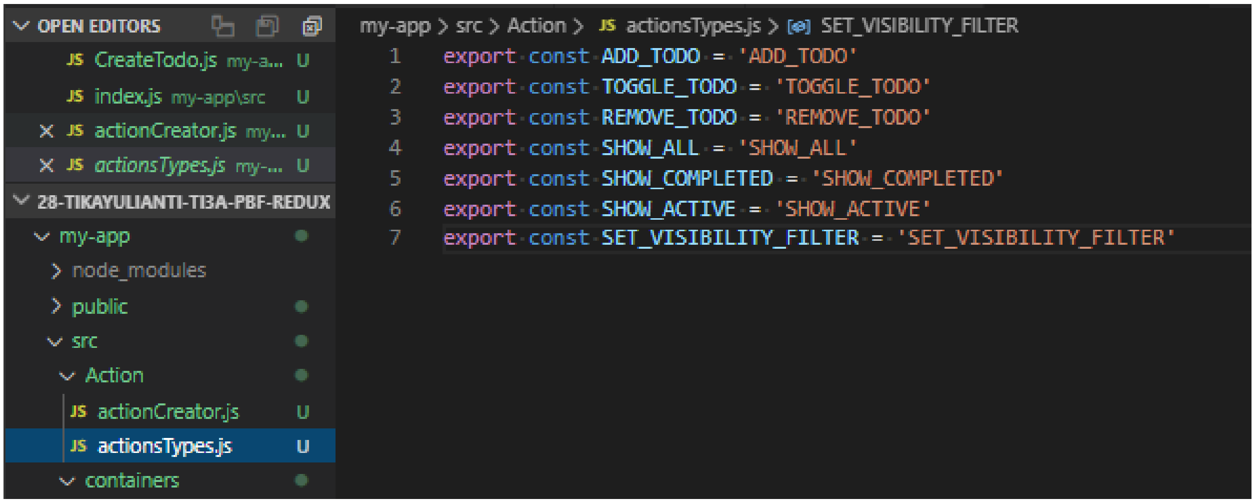
Praktikum

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



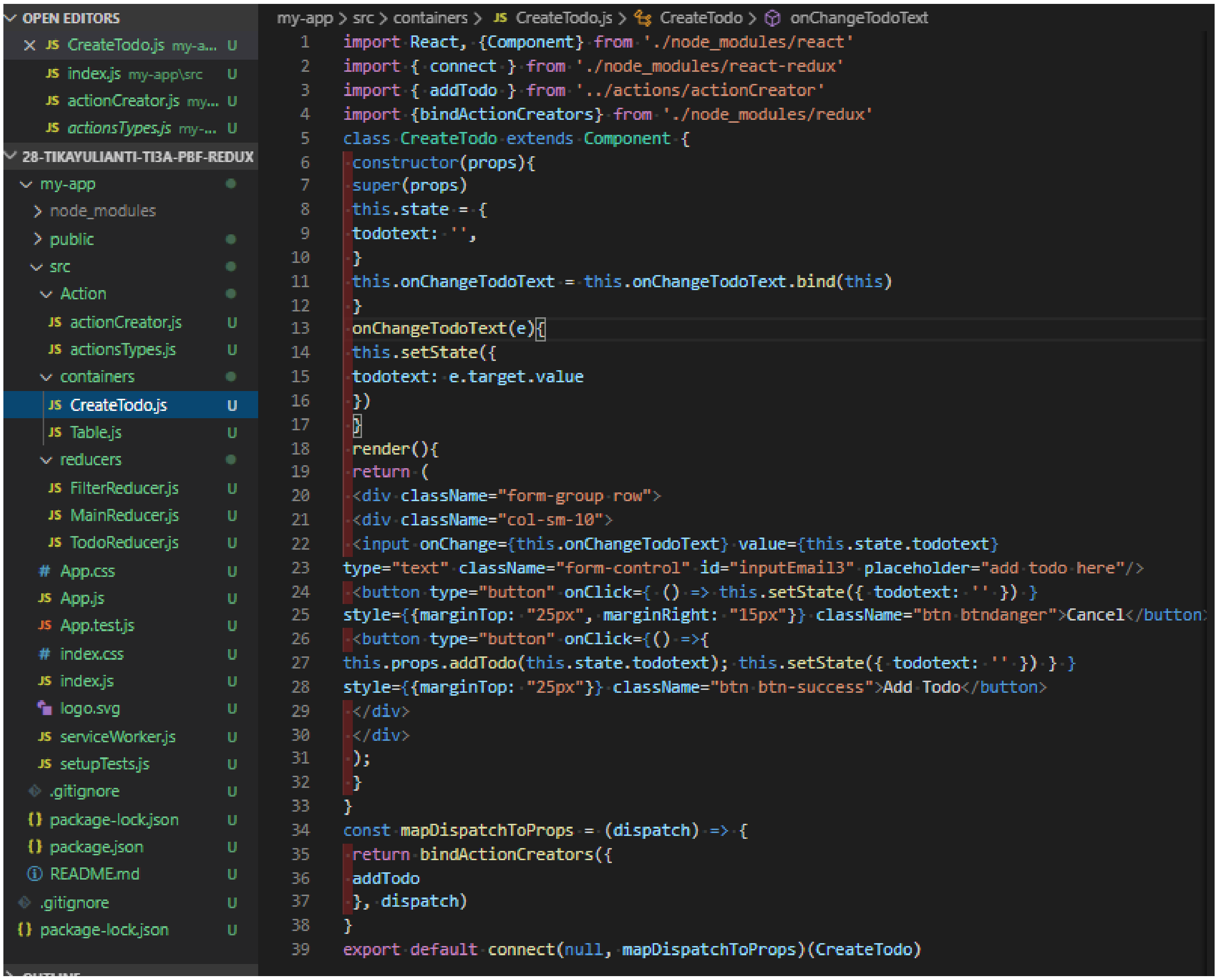
```javascript
import { ADD_TODO, REMOVE_TODO, TOGGLE_TODO, SET_VISIBILITY_FILTER } from
'./actionsTypes'
let TodoId = 2
export const addTodo = text => ({
 type: ADD_TODO,
 id: TodoId++,
 text
})
export const deleteTodo = (id) => ({
 type: REMOVE_TODO,
 id: id
})
export const toggleTodo = (id) => ({
 type: TOGGLE_TODO,
 id: id
})
export const setVisibilityFilter = filter => ({
 type: SET_VISIBILITY_FILTER,
 filter
})
```

3. Membuat file di dalam folder **Action** dengan nama **actionsTypes.js**



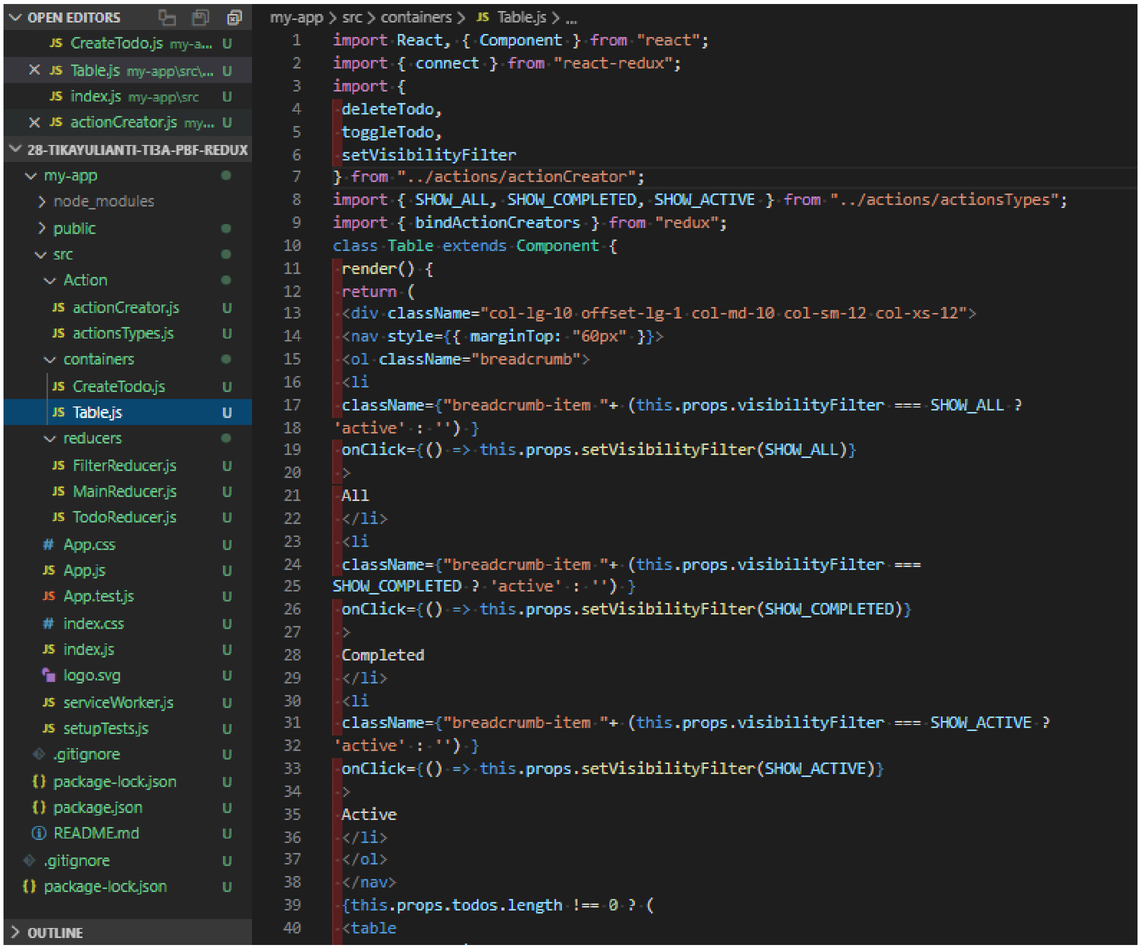
```javascript
export const ADD_TODO = 'ADD_TODO'
export const TOGGLE_TODO = 'TOGGLE_TODO'
export const REMOVE_TODO = 'REMOVE_TODO'
export const SHOW_ALL = 'SHOW_ALL'
export const SHOW_COMPLETED = 'SHOW_COMPLETED'
export const SHOW_ACTIVE = 'SHOW_ACTIVE'
export const SET_VISIBILITY_FILTER = 'SET_VISIBILITY_FILTER'
```

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

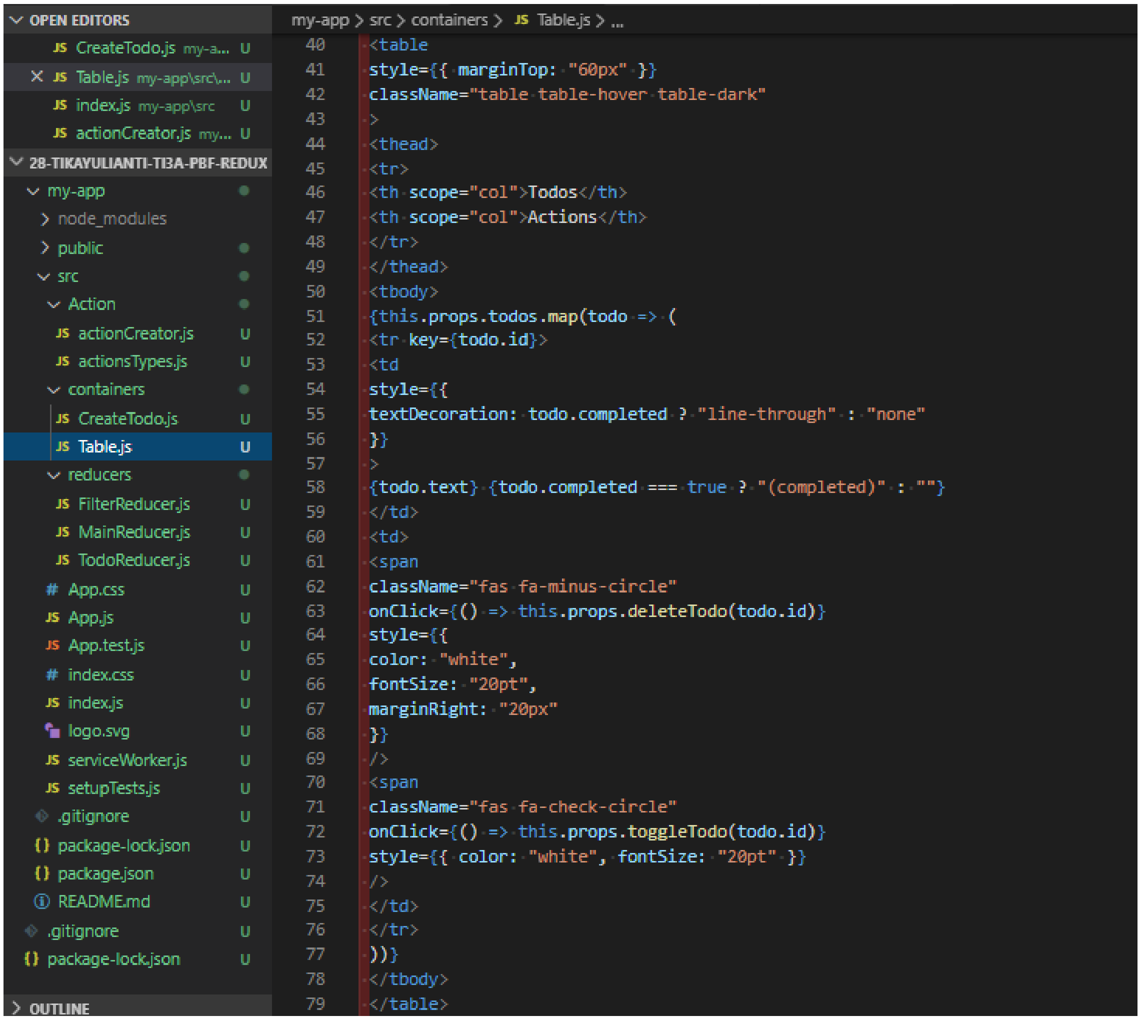


```
import React, {Component} from './node_modules/react'
import { connect } from './node_modules/react-redux'
import { addTodo } from '../actions/actionCreator'
import {bindActionCreators} from './node_modules/redux'
class CreateTodo extends Component {
 constructor(props){
 super(props)
 this.state = {
 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="inputEmail3" placeholder="add todo here"/>
 <button type="button" onClick={ () => this.setState({ todotext: '' }) }
style={{marginTop: "25px", marginRight: "15px"}} className="btn btndanger">Cancel</button
 <button type="button" onClick={() =>{
this.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)
```

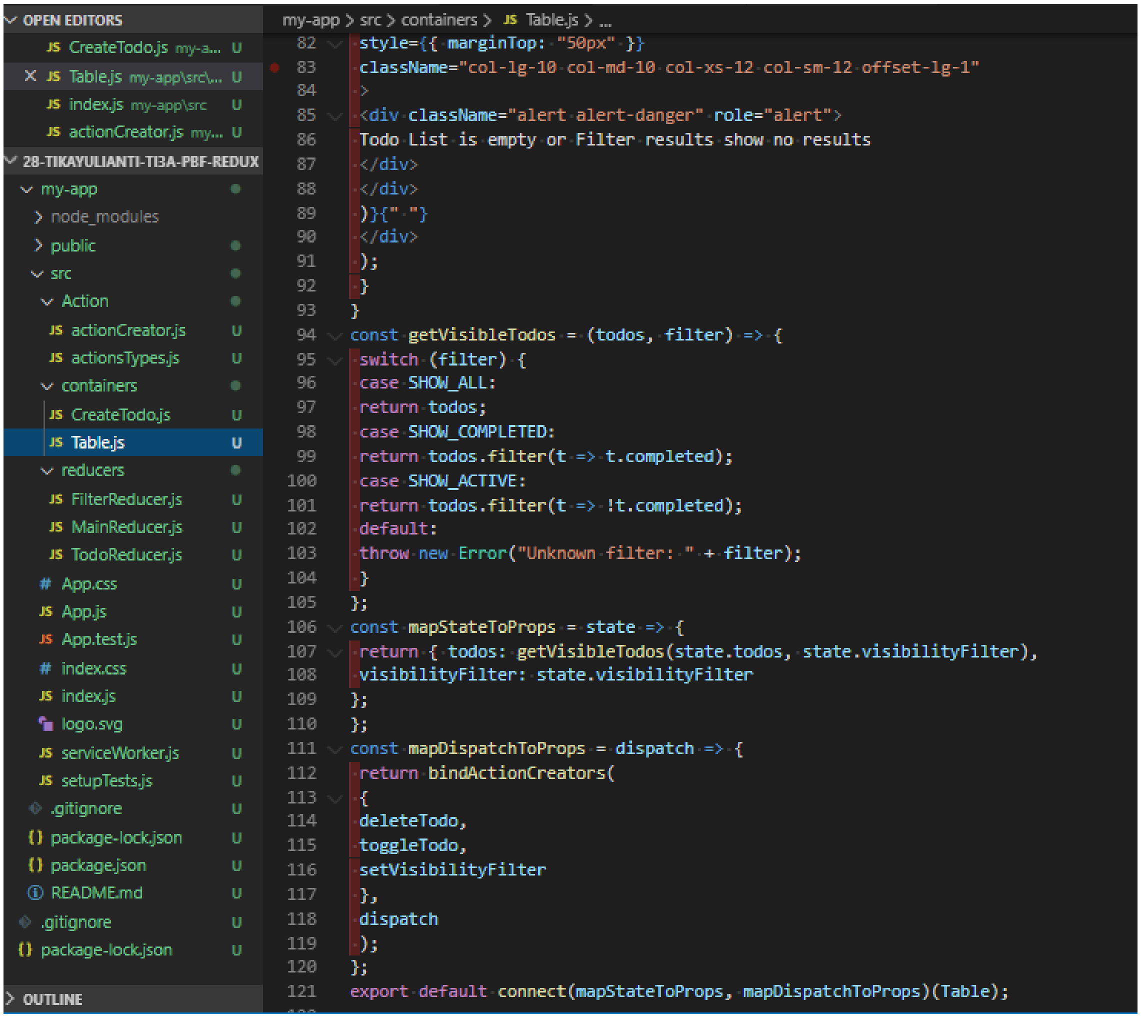
6. Membuat file di dalam folder **containers** dengan nama **Table.js**



```
import React, { Component } from "react";
import { connect } from "react-redux";
import {
 deleteTodo,
 toggleTodo,
 setVisibilityFilter
} from "../actions/actionCreator";
import { SHOW_ALL, SHOW_COMPLETED, SHOW_ACTIVE } from "../actions/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.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>
 {this.props.todos.length !== 0 ? (
 <table
```

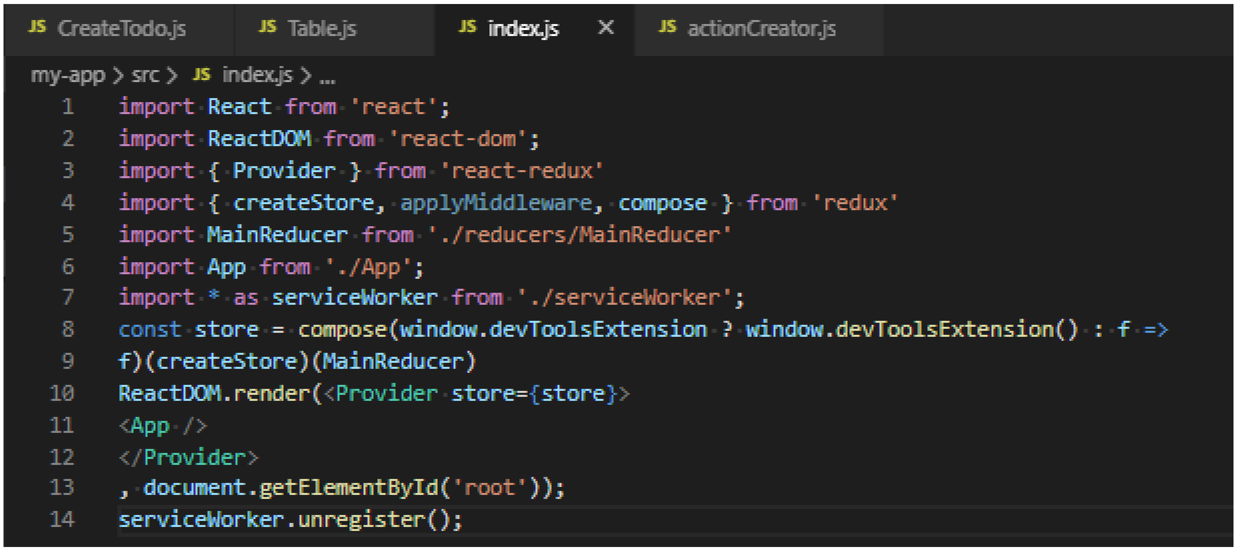


```
<table
style={{ marginTop: "60px" }}
className="table table-hover table-dark"
>
<thead>
<tr>
<th scope="col">Todos</th>
<th scope="col">Actions</th>
</tr>
</thead>
<tbody>
{this.props.todos.map(todo => (
<tr key={todo.id}>
<td
style={{
textDecoration: todo.completed ? "line-through" : "none"
}}
>
{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>
```



```
 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);
```

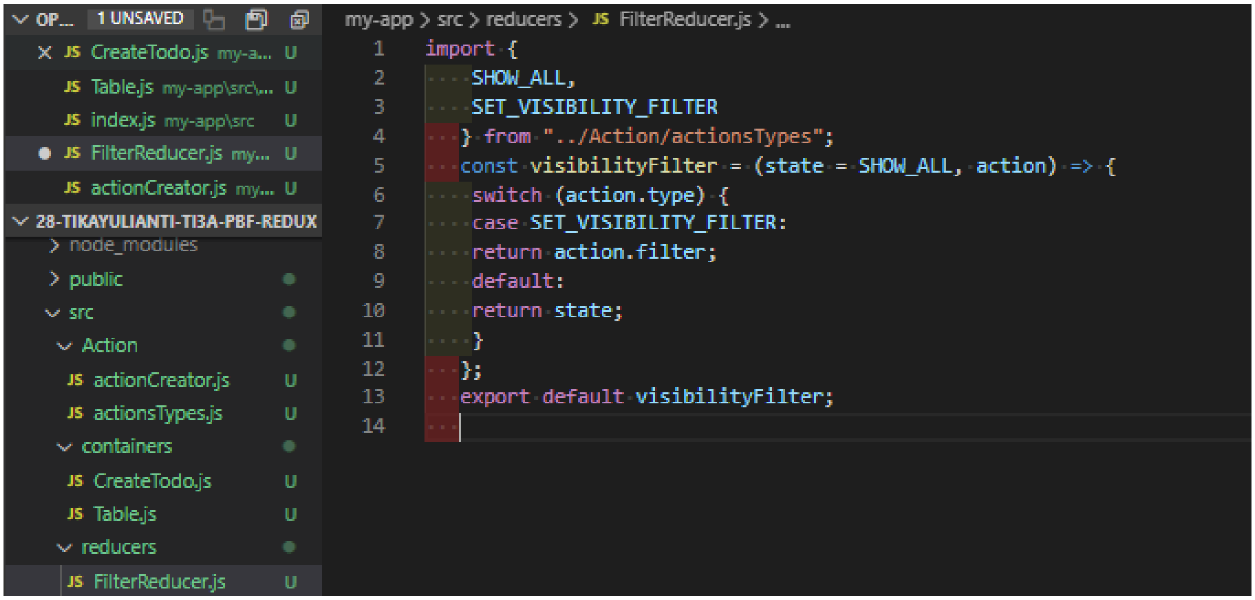
7. Mengedit **index.js** dengan source code sebagai berikut:



```
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();
```

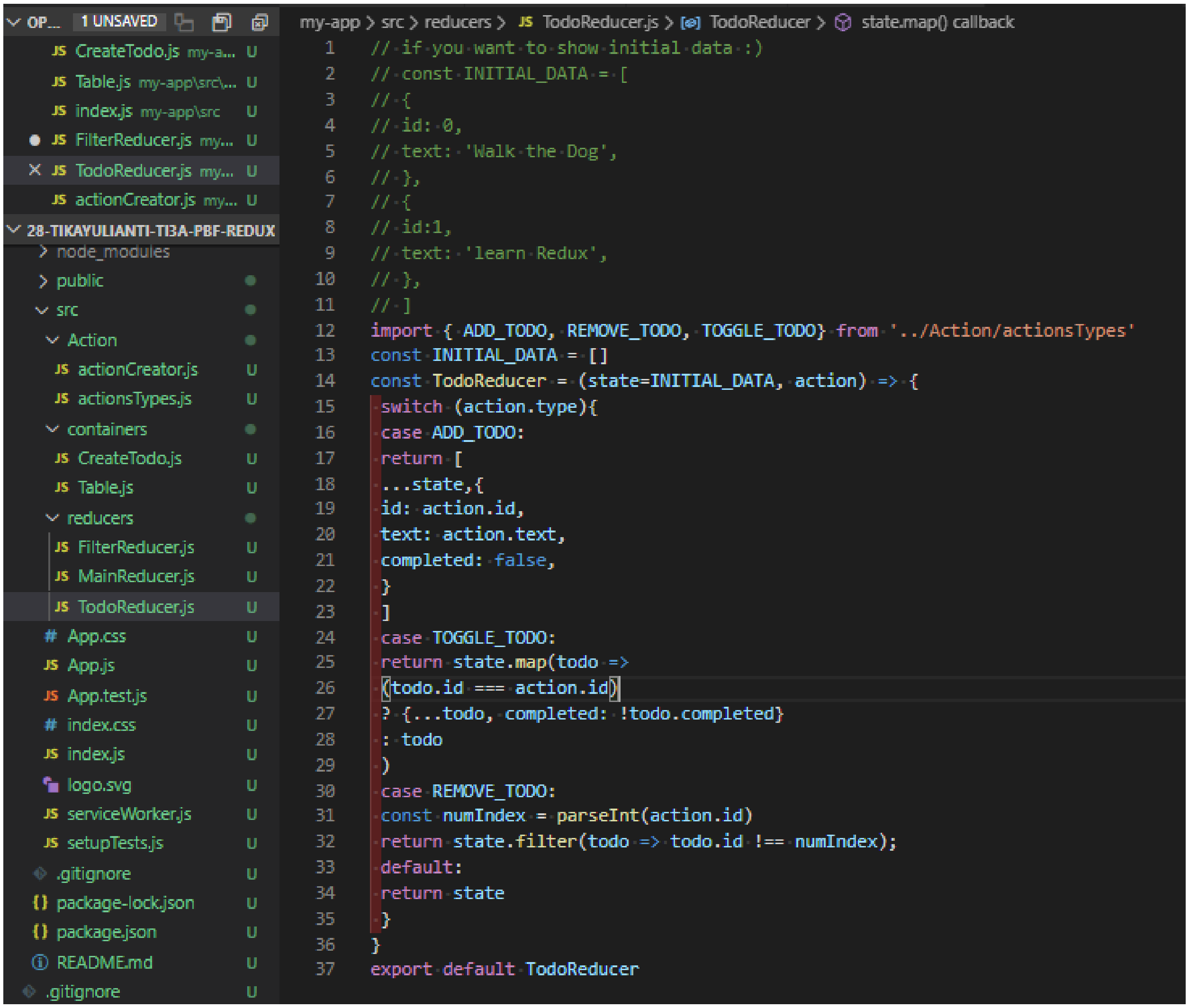
8. Membuat folder baru dengan nama **reducers** di dalam src

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



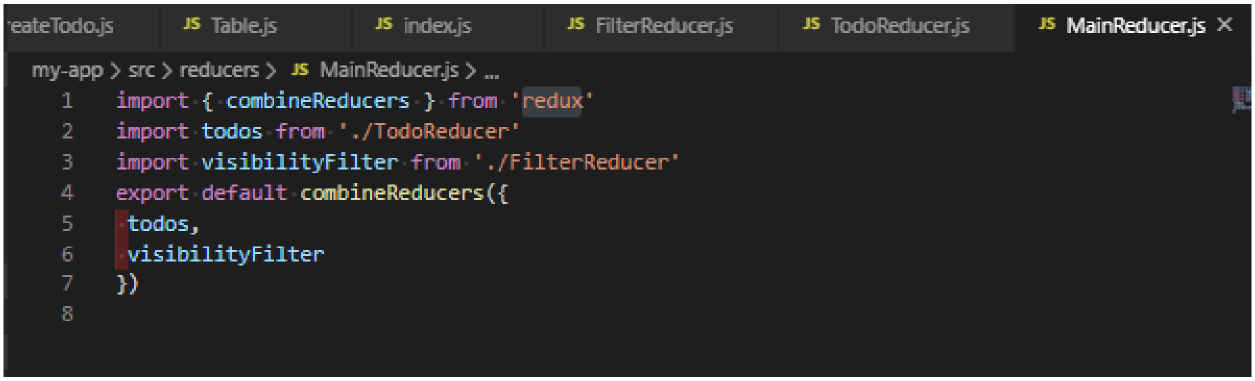
```
import {
    SHOW_ALL,
    SET_VISIBILITY_FILTER
   } from "../Action/actionsTypes";
   const visibilityFilter = (state = SHOW_ALL, action) => {
    switch (action.type) {
    case SET_VISIBILITY_FILTER:
    return action.filter;
    default:
    return state;
    }
   };
   export default visibilityFilter;
```

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



```
// if you want to show initial data :)
// const INITIAL_DATA = [
// {
// id: 0,
// text: 'Walk the Dog',
// },
// {
// id:1,
// text: 'learn Redux',
// },
// ]
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
```

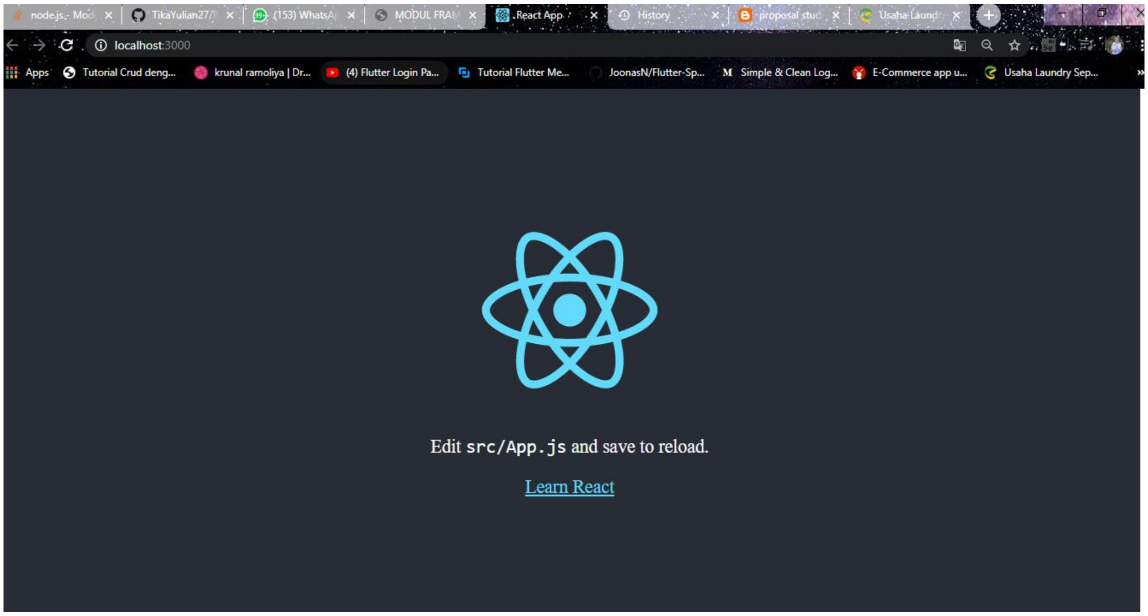
11. Membuat file baru di dalam folder **reducers** dengan nama **MainReducer.js**



```
import { combineReducers } from 'redux'
import todos from './TodoReducer'
import visibilityFilter from './FilterReducer'
export default combineReducers({
 todos,
 visibilityFilter
})

```

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



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

Learn React

13. Selesai