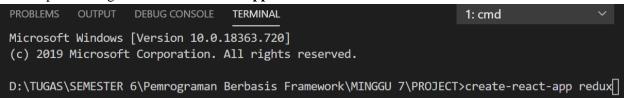
PRAKTIKUM MINGGU 7 REDUX

1. Buat proect dengan cara 'create-react-app redux' kemudian enter



Instalasi sudah selesai

```
run `npm audit fix` to fix them, or `npm audit` for details

Created git commit.

Success! Created redux at D:\TUGAS\SEMESTER 6\Pemrograman Berbasis Framework\MINGGU 7\PROJECT\redux Inside that directory, you can run several commands:

npm start
Starts the development server.

npm run build
Bundles the app into static files for production.

npm test
Starts the test runner.

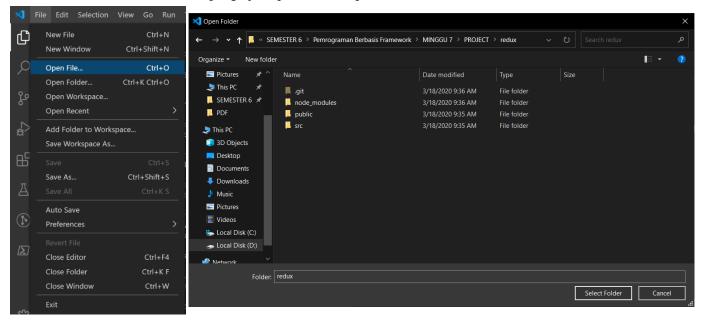
npm run eject
Removes this tool and copies build dependencies, configuration files and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

cd redux
npm start

Happy hacking!
```

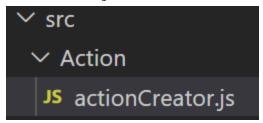
2. Kemudian untuk memudahkan pengerjaan praktukum, open folder 'redux'



3. Install redux dengan cara 'npm install react-redux' kemudian enter

```
D:\TUGAS\SEMESTER 6\Pemrograman Berbasis Framework\MINGGU 7\PROJECT\redux>npm install react-redux
npm WARN eslint-config-react-app@5.2.0 requires a peer of eslint-plugin-flowtype@3.x but none is installe
d. You must install peer dependencies yourself.
npm WARN tsutils@3.17.1 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0
-dev | >= 3.5.0-dev | >= 3.6.0-dev | >= 3.6.0-beta | >= 3.7.0-dev | >= 3.7.0-beta but none is instal
led. You must install peer dependencies yourself.
npm WARN react-redux@7.2.0 requires a peer of redux@72.0.0 || ^3.0.0 || ^4.0.0-0 but none is installed. Y
ou must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.2: wanted {"os":"darw
in", "arch": "any"} (current: {"os": "win32", "arch": "x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\webpack-dev-server\node_mod
ules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"os":"dar
win", "arch": "any" } (current: {"os": "win32", "arch": "x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\watchpack\node_modules\fsev
ents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"os":"dar
win", "arch": "any" { (current: {"os": "win32", "arch": "x64" })
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\jest-haste-map\node_modules
\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"os":"dar
win", "arch": "any" { (current: {"os": "win32", "arch": "x64" })
```

4. Buat folder bernama 'Action' di dalam folder src, kemudian di dalam folder Action, buat file bernama 'actionCreator.js'



5. Ketikan code berikut pada file actionCreator.js

```
import {
   ADD_TODO,
   REMOVE_TODO,
   TOGGLE_TODO,
   SET_VISIBILITY_FILTER
} from "./actionsTypes";

let TodoId = 2;

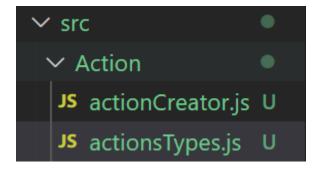
export const addTodo = text => ({ type: ADD_TODO, id: TodoId++, text });

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
});
```

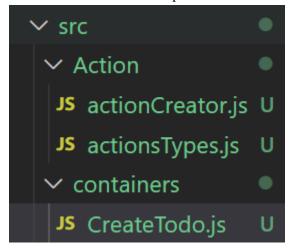
6. Buat file 'actionsTypes.js' pada folder Action



7. Ketikkan code berikut pada 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";
```

8. Buat folder 'containers' pada di dalam folder src, kemudian buat file dengan nama 'CreateTodo.js'



9. Ketikkan code berikut

```
import React, { Component } from "react";
import { connect } from "react-redux";
import { addTodo } from "../Action/actionCreator";
import { bindActionCreators } from "redux";

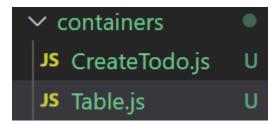
class CreateTodo extends Component {
  constructor(props) {
    super(props);
    this.state = {
      todotext: ""
    };
    this.onChangeTodoText = this.onChangeTodoText.bind(this);
}

onChangeTodoText(e) {
  this.setState({
    todotext: e.target.value
  });
```

```
render() {
    return (
      <div className="form-group row">
        <div className="col-sm-10">
          <input</pre>
            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 btn-danger"
            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);
```

10. Buat file 'Table.js' di dalam folder containers



11. Ketikkan code berikut

```
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" }}>
         <1i
             className={
               "breadcrumb-item " +
               (this.props.visibilityFilter === SHOW_ALL ? "active" : "")
             onClick={() => this.props.setVisibilityFilter(SHOW ALL)}
             A11
           <1i
             className={
               "breadcrumb-item " +
```

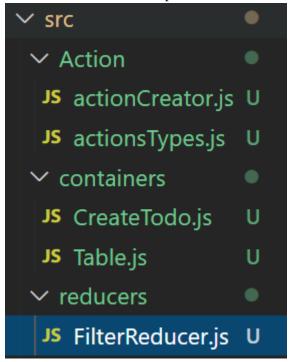
```
(this.props.visibilityFilter === SHOW COMPLETED ? "active" : "")
     onClick={() => this.props.setVisibilityFilter(SHOW_COMPLETED)}
     Completed
   className={
       "breadcrumb-item " +
      (this.props.visibilityFilter === SHOW_ACTIVE ? "active" : "")
     onClick={() => this.props.setVisibilityFilter(SHOW ACTIVE)}
     Active
   {this.props.todos.length !== 0 ? (
 <table
   style={{ marginTop: "60px" }}
   className="table table-hover table-dark"
   <thead>
    Todos
       Actions
     </thead>
   {this.props.todos.map(todo => (
       style={{
            textDecoration: todo.completed ? "line-through" : "none"
          }}
          {todo.text} {todo.completed === true ? "(completed)" : ""}
        className="fas fa-minus-circle"
            onClick={() => this.props.deleteTodo(todo.id)}
            style={{
              color: "white",
              fontSize: "20pt",
```

```
marginRight: "20px"
                     }}
                     className="fas fa-check-circle"
                     onClick={() => this.props.toggleTodo(todo.id)}
                     style={{ color: "white", fontSize: "20pt" }}
                 ))}
           <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
```

12. Edit file 'index.js' yang ada di dalam folder src seperti berikut

```
import React from "react";
import ReactDOM from "react-dom";
import { Provider } from "react-redux";
import { createStore, compose } from "redux";
import MainReducer from "./reducers/MainReducer";
import App from "./App";
import registerServiceWorker from "./serviceWorker";
const store = compose(
 window.devToolsExtension ? window.devToolsExtension() : f => f
)(createStore)(MainReducer);
ReactDOM.render(
  <Provider store={store}>
    <App />
 </Provider>,
 document.getElementById("root")
registerServiceWorker();
```

13. Buat folder 'reducers' pada didalam folder src, kemudian buat file 'FilterReducers.js'



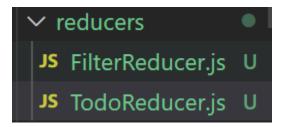
14. Kemudian ketikkan code berikut

```
import { SHOW_ALL, SET_VISIBILITY_FILTER } from "../actions/actionsTypes";

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

export default visibilityFilter;
```

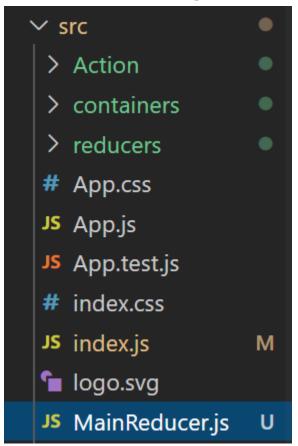
15. Buat file 'TodoReducer.js' di dalam folder reducers



16. Ketikkan code berikut

```
import { ADD_TODO, REMOVE_TODO, TOGGLE_TODO } from "../actions/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;
```

17. Buat file 'MainReducer.js' pada folder src



18. Ketikkan code berikut

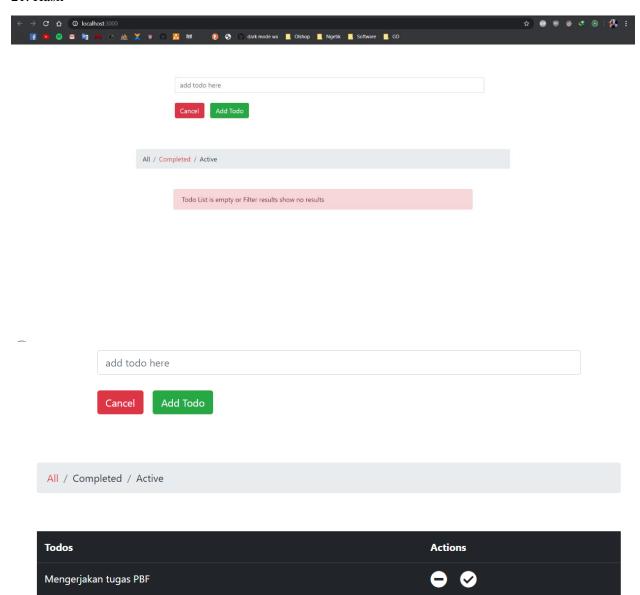
```
import { combineReducers } from "redux";
import todos from "./TodoReducer";
import visibilityFilter from "./FilterReducer";
export default combineReducers({ todos, visibilityFilter });
```

19. Edit file app.js seperti berikut

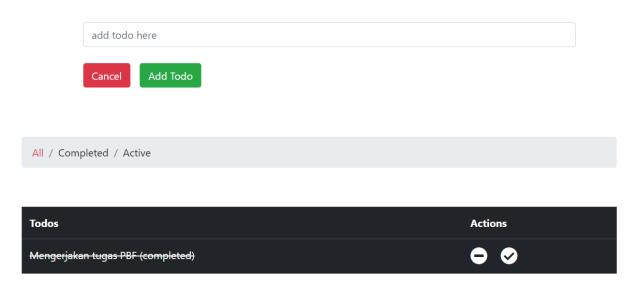
20. Untuk tema css yang menarik, copy-paste link ini pada file 'index.html'

```
link
      rel="stylesheet"
      href="https://use.fontawesome.com/releases/v5.1.0/css/all.css"
      integrity="sha384-
1KuwvrZot6UHsBSfcMvOkWwlCMgc0TaWr+30HWe3a4ltaBwTZhyTEggF5tJv8tbt"
      crossorigin="anonymous"
    link
      rel="stylesheet"
      href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.1/css/bootstrap.min.
css"
      integrity="sha384-
WskhaSGFgHYWDcbwN70/dfYBj47jz9qbsMId/iRN3ewGhXQFZCSftd1LZCfmhktB"
      crossorigin="anonymous"
    <style>
      .breadcrumb-item.active {
        color: #dc3545;
    </style>
```

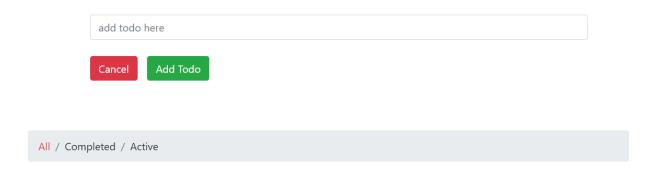
21. Hasil

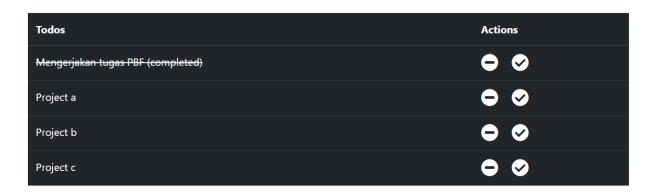


Jika tombol centang di klik

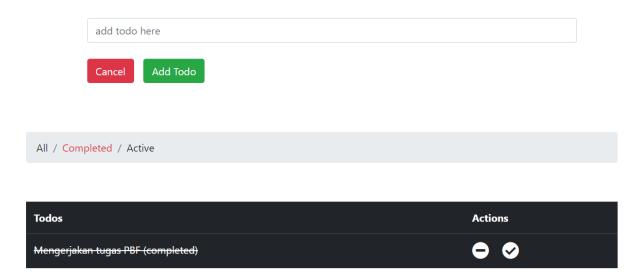


Pada tab all, semua todo akan muncul





Pada tab complete, akan muncul project yang sudah di klik tombol centang



Project yang sedang aktif akan muncul di tab Active

