

## React Native Redux Middleware

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- 1. Intro about Redux Saga
- 2. How Redux Saga Works
- 3. Implementation Redux Saga

## **GOALS**



## 1. Intro about REDUX SAGA

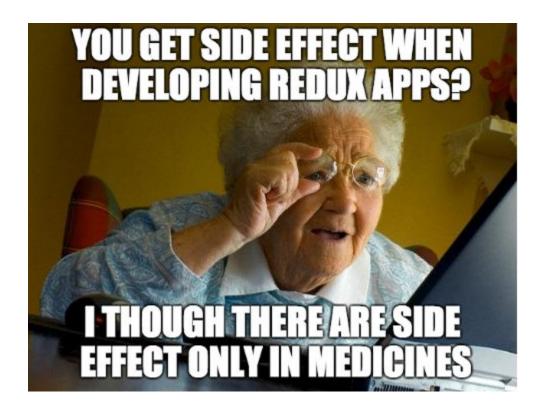
Redux-saga is a redux middleware library, that is designed to make handling side effects in your redux app nice & simple. It achieves this by leveraging an ES6 feature called Generators, allowing us to write asynchronous code that looks synchronous, and is very easy to test.



#### **Benefits?**

- 1. Do synchronous job smoothly
- 2. Maintainability

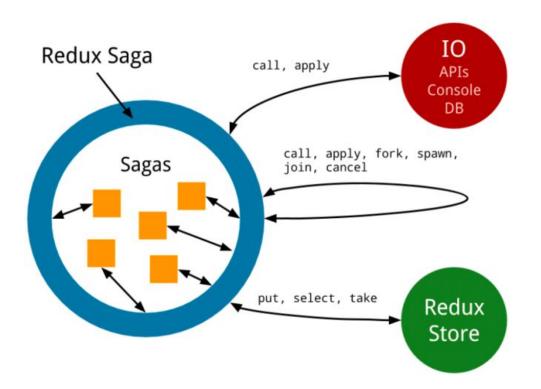






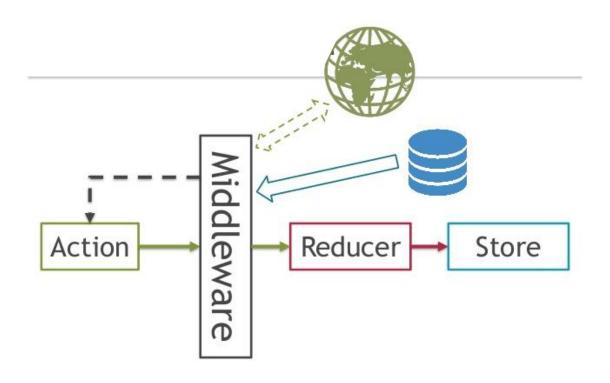
### \*

#### 2. How Redux Saga Works









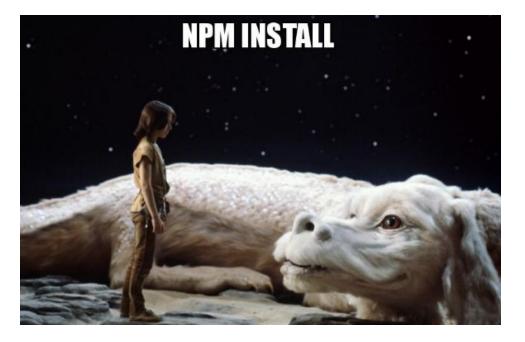


#### \*

#### 3. Implementation Redux

Install (Redux Basic): npm i redux react-redux

- redux
- react-redux
- redux-saga







#### ./store.js

```
import { createStore, applyMiddleware } from 'redux';
import createSagaMiddleware from 'redux-saga';
import rootReducer from './src/redux/reducer/index';
import IndexSaga from './src/redux/saga/index';
const configureStore = () => {
const sagaMiddleware = createSagaMiddleware();
return {
   ...createStore(rootReducer,
applyMiddleware(sagaMiddleware)),
   runSaga: sagaMiddleware.run(IndexSaga)
};
};
export default configureStore;
```



#### ./src/redux/saga/index.js

```
import { all, takeLatest } from 'redux-saga/effects';
import { REQUEST_USER_DATA } from '../type/UserType';
import { getUserData } from './user';

export default function* IndexSaga() {
  yield all([takeLatest(REQUEST_USER_DATA, getUserData)]);
}
```



#### ./src/redux/saga/user.js

```
import { put, call } from 'redux-saga/effects'
import { SHOW USER DATA, FAILED GET USER DATA, SUCCESS USER DATA
} from '../type/UserType';
import { apiGetUser } from './api/apiUser';
export function* getUserData(action) {
try {
  const { token } = action;
   const users = yield call(apiGetUser, token)
   console.log(action)
   yield put({ type: SHOW USER DATA, payload: users })
   yield put({ type: SUCCESS USER DATA, payload: 'Successfully get ' })
 } catch (error) {
   yield put({ type: FAILED GET USER DATA, payload: 'Fatal ERROR' })
   console.log(error)
```



#### ./src/redux/saga/api/apiUser.js

```
import axios from 'axios';
export const apiGetUser = token => {
 console.log('token nya ', token);
 let headers = {
   Authorization: token
 };
 return axios
   .get(
     'http://ec2-3-0-98-199.ap-southeast-1.compute.amazonaws.com:3000/users/,'
     { headers: headers }
   .then(function(res) {
    return res.data.results;
   });
};
```

## \*

#### ./src/redux/type/userType.js

```
export const REQUEST_USER_DATA = 'REQUEST_USER_DATA'
export const SHOW_USER_DATA = 'SHOW_USER_DATA'
export const FAILED_GET_USER_DATA = 'FAILED_GET_USER_DATA'
export const SUCCESS_USER_DATA = 'SUCCESS_USER_DATA'
```



#### ./src/redux/action/user.js (create file)

```
import { REQUEST_USER_DATA } from '../type/UserType'
export const getUser = (data) => {
    return {
        type : REQUEST_USER_DATA,
        token : data
    }
}
```



#### ./src/redux/reducer/index.js (edit file)

```
import { combineReducers } from 'redux'
import user from './user'
import auth from './auth'
const IndexReducer = combineReducers ({
    user : user,
    auth : auth
})
```



#### ./src/redux/reducer/user.js

```
import {
    REQUEST USER DATA,
    SHOW USER DATA,
    FAILED_GET_USER_DATA, SUCCESS_USER_DATA } from '../type/UserType'
const initialState = {
    loading : true,
    data : [],
    message : null
export default (state = initialState, action) => {
    switch (action.type) {
        case REQUEST USER DATA :
            return {
                ...state,
                loading : true
```

//to be continued...



#### ./src/redux/reducer/user.js (continue)

```
case SHOW USER DATA:
                                                     case SUCCESS USER DATA :
           return {
                                                                 return {
               ...state,
                                                                     ...state,
               loading : false,
                                                                     loading : false,
               data: action.payload
                                                                     message : action.payload
case FAILED GET USER DATA :
                                                      default :
           return {
                                                                 return state
               ...state,
               loading : false,
               message : action.payload
```



# Udah deh tinggal DISPATCH aja Kk..



dan rasakanlah efek sampingnya...

## **Exercise**

Refactor your Profile App using Redux Saga;)



