

Redux Saga

Middleware story continues...

Redux - Middleware - Redux Saga



- A library that aims to make *side effects* (i.e. asynchronous things like data fetching and impure things like accessing the browser cache) in React/Redux applications easier and better
- The mental model is that a saga is like a separate thread in your application that's solely responsible for side effects. redux-saga is a redux middleware, which means this thread can be started, paused and cancelled from the main application with normal redux actions, it has access to the full redux application state and it can dispatch redux actions as well
- It uses an ES6 feature called Generators to make those asynchronous flows easy to read, write and test

Redux - Middleware - Redux Saga Setup



npm install redux-saga --save

Redux - Middleware - Redux Saga In Action recolerant

Create sagas.jsCreate saga middleware

```
import createSagaMiddleware from 'redux-saga'
const sagaMiddleware = createSagaMiddleware();
```

Run middleware by configuring the watchers

```
import {getReposWatcher} from './sagas'
sagaMiddleware.run(getReposWatcher);
```

Saga API



- Middleware API
 - createSagaMiddleware(options)
 - middleware.run(saga, ...args)
- Saga Helpers
 - takeEvery(pattern, saga, ...args)
 - takeLatest(pattern, saga, ..args)
 - throttle(ms, pattern, saga, ..args)
- Effect creators
 - take(pattern)
 - put(action)
 - call(fn, ...args)
 - fork(fn, ...args)
 - spawn(fn, ...args)
 - cancel(task)
 - select(selector, ...args)

- Effect combinators
 - race(effects)
 - all(effects)