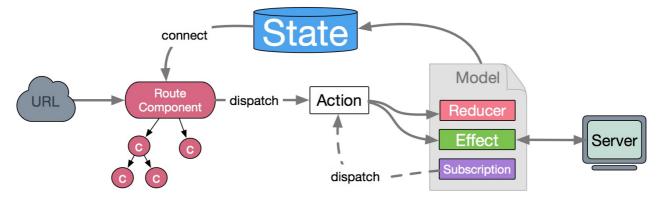
link null title: 珠峰架构师成长计划 description: null keywords: null author: null date: null publisher: 珠峰架构师成长计划 stats: paragraph=81 sentences=207, words=2064

1.dva介绍

• dva (https://github.com/dvajs/dva) 首先是一个基于 redux 和 redux-saga 的数据流方案,然后为了简化开发体验,dva 还额外内置了 react-router 和 fetch,所以也可以理解为一个轻量级的应用框架



1.1 前置知识

- react
- react-router-dom
- redux
- react-redux
- react-sagaredux-first-history

2. 初始化项目 **#**

```
create-react-app zhufeng-dva-source
cd zhufeng-dva-source
npm install dva
npm install redux react-redux redux-saga react-router-dom redux-first-history --save
npm start
```

3. 基本计数器

3.1 使用 <u>#</u>

3.1.1 index.js

```
import React from 'react';
import dva, { connect } from './dva';
const app = dva();
app.model({
    namespace: 'counter',
    state: { number: 0 },
reducers: {
        add(state) {
            return { number: state.number + 1 };
const actionCreator = app.createAction();
function Counter (props) {
    return (
        <div>
            {props.number}p>
             <button onClick={() => props.dispatch({ type: "counter/add" })}>+button>
 const ConnectedCounter = connect(
    (state) => state.counter
) (Counter
app.router(() => <ConnectedCounter />);
app.start('#root');
```

3.2 实现 <u>#</u>

3.2.1 dv a\index.js

```
import React from 'react';
import ReactDOM from 'react-dom';
import { createStore, combineReducers } from 'redux';
import { connect, Provider } from 'react-redux';
import prefixNamespace from './prefixNamespace';
 export { connect };
            const app = {
   _models: [],
                          model,
                         router,
                          _router: null, start,
                         createAction
             const initialReducers = {};
             function model (model) {
                          const prefixedModel = prefixNamespace(model);
                           app._models.push(prefixedModel);
                           return prefixedModel;
             function router(router) {
                         app._router = router;
             function createAction() {
                         let actionCreators = {};
for (const model of app._models) {
                                    let { reducers } = model;
for (let key in reducers) {
                                                  actionCreators[key] = () => ({ type: key })
                           return actionCreators:
             function start(root) {
                         for (const model of app._models) {
  initialReducers[model.namespace] = getReducer(model);
                          let rootReducer = createReducer();
                          let store = createStore(rootReducer);
                          \verb|ReactDOM.render(<Provider store={store})>{app.\_router()}| Provider>, document.querySelector(root)); | Prov
                          function createReducer() {
    return combineReducers(initialReducers);
            }
             return app;
  function getReducer(model) {
            let { reducers, state : defaultState } = model;
let reducer = (state = defaultState, action) => {
  let reducer = reducers[action.type];
                           if (reducer) {
                                      return reducer(state, action);
                           return state;
             return reducer;
export default dva;
```

3.2.2 prefixNamespace.js

src\dva\prefixNamespace.js

```
function prefix(obj, namespace) {
    return Object.keys(obj).reduce((memo, key) => {
        const newKey = `$(namespace)/${key}`;
        memo[newKey] = obj[key];
        return memo;
    }, {});
}
export default function prefixNamespace(model) {
    if (model.reducers)
        model.reducers = prefix(model.reducers, model.namespace);
    return model;
}
```

4. 支持effects

4.1 使用 <u>#</u>

4.1.1 src\index.js

src\index.js

4.2 实现

4.2.1 dva\index.js

```
import React from 'react';
import ReactDOM from 'react-dom';
import { createStore, combineReducers, applyMiddleware } from 'redux';
+import createSagaMiddleware from 'redux-saga';
+import * as sagaEffects from 'redux-saga/effects';
import { connect, Provider } from 'react-redux';
import prefixNamespace from './prefixNamespace';
export { connect };
function dva() {
    const app = {
   _models: [],
         model,
        router,
        _router: null, start
    const initialReducers = {};
    function model(model) {
   const prefixedModel = prefixNamespace(model);
         app. models.push(prefixedModel);
         return prefixedModel;
    function router(router)
        app._router = router;
    function start(root) {
        for (const model of app._models) {
  initialReducers[model.namespace] = getReducer(model);
         let rootReducer = createReducer();
          const sagas = getSagas(app);
          const sagaMiddleware = createSagaMiddleware();
          let store = createStore(rootReducer, applyMiddleware(sagaMiddleware));
sagas.forEach(saga => sagaMiddleware.run(saga));
        ReactDOM.render({app._router()}, document.querySelector(root));
function createReducer() {
              return combineReducers(initialReducers);
     function getSagas(app) {
          let sagas = [];
          for (const model of app._models) {
              sagas.push(getSaga(model));
          return sagas;
    return app;
 function getSaga(model) {
     const { effects } = model;
return function* () {
          });
+function prefixType(type, model) {
+   if (type.indexOf(''') === -1) {
          return `${model.namespace}/${type}`;
     return type;
function getReducer(model) {
    let { reducers, state: defaultState } = model;
let reducer = (state = defaultState, action) => {
        let reducer = reducers[action.type];
        if (reducer) {
   return reducer(state, action);
         return state;
    return reducer;
export default dva;
```

4.2.2 prefixNamespace.js

src\dva\prefixNamespace.js

```
import { NAMESPACE_SEP } from './constants';
function prefix(obj, namespace) {
    return Object.keys(obj).reduce((memo, key) => {
        const newKey = '$(namespace)$(NAMESPACE_SEP)$(key)';
        memo[newKey] = obj[key];
        return memo;
    }, { });
}
export default function prefixNamespace(model) {
    if (model.reducers)
        model.reducers = prefix(model.reducers, model.namespace);
    if (model.effects {
        model.effects = prefix(model.effects, model.namespace);
    }
    return model;
}
```

5. 支持路由

5.1 使用

5.1.1 src\index.js <u>#</u>

src\index.js

```
import React from 'react';
import dva, { connect } from './dva';
+import { Router, Route,Link } from './dva/router';
 const app = dva();
app.model({
     namespace: 'counter',
       state: { number: 0 },
reducers: {
  add(state) {
            return { number: state.number + 1 };
}
       feffects: {
    *asyncAdd(action, { call, put }) {
        yield call(delay, 1000);
        yield put({ type: 'counter/add' });
}
} } ;
 function Counter(props) {
       return (
                    {props.number}
props.dispatch({ type: "counter/add" })}>+
props.dispatch({ type: "counter/asyncAdd" })}>异步+
      )
 const ConnectedCounter = connect(
    (state) => state.counter
)(Counter);
+const Home = () => Home
+app.router(() => (
               \Diamond
                  Home
Counter
                     } />
} />
 +));
app.start('#root');
function delay(ms) {
   return new Promise((resolve) => {
      setTimeout(function () {
          resolve();
}
     resc
}, ms);
});
```

5.2 实现 <u>#</u>

5.2.1 dv a\index.js <u>#</u>

```
import React from 'react';
import ReactDOM from 'react-dom';
import {    createStore, combineReducers, applyMiddleware } from 'redux'; import createSagaMiddleware from 'redux-saga';
import * as sagaEffects from 'redux-saga/effects';
import { NAMESPACE_SEP } from './constants';
import { connect, Provider } from 'react-redux';
import prefixNamespace from './prefixNamespace';
import { BrowserRouter } from 'react-router-dom';
export { connect };
    const app = {
   _models: [],
          model.
          router,
          _router: null, start
     const initialReducers = {};
     function model(model) {
          const prefixedModel = prefixNamespace(model);
          app._models.push(prefixedModel);
return prefixedModel;
     function router(router) {
          app._router = router;
          for (const model of app._models) {
  initialReducers[model.namespace] = getReducer(model);
          const sagas = getSagas(app);
const sagaMiddleware = createSagaMiddleware();
          let store = createStore(rootReducer, applyMiddleware(sagaMiddleware));
sagas.forEach(saga => sagaMiddleware.run(saga));
          ReactDOM.render(
                      {app._router()}
          document.querySelector(root))
          function createReducer() {
               return combineReducers(initialReducers);
     function getSagas(app) {
          let sagas = [];
for (const model of app._models) {
               sagas.push(getSaga(model));
          return sagas;
     return app;
 function getSaga(model) {
    const { effects } = model;
return function* () {
          for (const key in effects) {//key=asyncAdd
yield sagaEffects.takeEvery(key, function* (action) {
                   });
              });
 function prefixType(type, model) {
   if (type.indexOf('/')
         return `${model.namespace}${NAMESPACE_SEP}${type}`;
     return type;
 unction getReducer(model) {
    let { reducers, state: defaultState } = model;
let treducer = (state = defaultState, action) => {
    let reducer = reducers[action.type];
          if (reducer) {
               return reducer(state, action);
          return state;
     return reducer;
export default dva;
```

5.2.2 router.js <u>#</u>

src\dva\router.js

export * from 'react-router-dom';

6. 跳转路径

6.1 使用 <u>#</u>

6.1.1 src\index.js <u>#</u>

src\index.js

```
import React from 'react';
import dva, { connect } from './dva';
+import { Router, Route,Link,routerRedux } from './dva/router';
const app = dva();
app.model({
     namespace: 'counter',
      state: { number: 0 },
reducers: {
  add(state) {
           return { number: state.number + 1 };
}
      feffects: {
    *asyncAdd(action, { call, put }) {
       yield call(delay, 1000);
       yield put({ type: 'counter/add' });
}
            yield put({ type: 'counter/add'
},
*goto({ to }, { put }) {
   yield put(routerRedux.push(to));
}
});
 function Counter(props) {
      return (
                    {props.number}
                      props.dispatch({ type: "counter/add" })}>+
props.dispatch({ type: "counter/asyncAdd" })}>异步+
props.dispatch({ type: "counter/goto", to: '/' })}>跳转到/
 const ConnectedCounter = connect(
    (state) => state.counter
(State) -> State.com
)(Counter);
const Home = () => Home
app.router(() => (
                   Home
                    Counter
));
app.start('#root');
function delay(ms) {
     return new Promise((resolve) => {
    setTimeout(function () {
    resc
}, ms);
});
                   resolve();
```

6.2 实现 <u>#</u>

6.2.1 dva\index.js

```
import React from 'react';
import ReactDOM from 'react-dom';
import {    createStore, combineReducers, applyMiddleware } from 'redux'; import createSagaMiddleware from 'redux-saga';
import * as sagaEffects from 'redux-saga/effects';
import { NAMESPACE_SEP } from './constants';
import { connect, Provider } from 'react-redux';
import prefixNamespace from './prefixNamespace';
+import { createBrowserHistory } from 'history';
+import { HistoryRouter } from "redux-first-history/rr6";
+import { createReduxHistoryContext } from "redux-first-history";
+const { routerReducer, routerMiddleware, createReduxHistory } = createReduxHistoryContext({ history: createBrowserHistory() });
export { connect };
function dva() {
   const app =
         _models: [], model,
         router,
         _router: null,
         start
    const initialReducers = { router: routerReducer };
    function model(model) {
   const prefixedModel = prefixNamespace(model);
         app._models.push(prefixedModel);
         return prefixedModel;
    function router(router)
        app._router = router;
    }
    function start(root) {
         for (const model of app._models) {
             initialReducers[model.namespace] = getReducer(model);
         let rootReducer = createReducer();
        const sagas = getSagas(app);
const sagaMiddleware = createSagaMiddleware();
         const store = createStore(rootReducer, applyMiddleware(routerMiddleware, sagaMiddleware));
         sagas.forEach(saga => sagaMiddleware.run(saga));
         ReactDOM.render(
                  {app._router()}
              , document.querySelector(root))
         function createReducer() {
            return combineReducers(initialReducers);
    function getSagas(app) {
         let sagas = [];
         for (const model of app._models) {
             sagas.push(getSaga(model));
    return app;
function getSaga(model) {
   const { effects } = model;
    return function* () {
        for (const key in effects) {
            { ...action, type: prefixType(action.type, model.namespace) })
            });
});
   }
function prefixType(type, model) {
   if (type.indexOf('/')
    return `${model.namespace}${NAMESPACE_SEP}${type}`;
    return type;
function getReducer(model) {
    let { reducers, state: defaultState } = model;
let reducer = (state = defaultState, action) => {
        let reducer = reducers[action.type];
         if (reducer) {
            return reducer(state, action);
         return state:
    return reducer;
export default dva;
```

6.2.2 src\dva\router.js

src\dva\router.js

```
import * as routerRedux from 'redux-first-history';
export * from 'react-router-dom';
export {
   routerRedux
}
```