1. 生成项目

```
$ create-react-app jwt-frontend
cd jwt-frontend
cnpm i redux react-redux redux-logger redux-saga react-router-dom react-router-redux@next history axios jsonwebtoken -S
```

2.跑通路由和仓库

```
import createHistory from 'history/createBrowserHistory';
let history=createHistory();
export default history;
```

```
+ import {Provider} from 'react-redux';
+ import store from './store';
+ import App from './containers/App';
+ import {ConnectedRouter} from 'react-router-redux';
+ import history from './history';
+ import 'bootstrap/dist/css/bootstrap.css'
+ ReactDOM.render(
+
+
+
+ , document.getElementById('root'));
```

```
import React,{Component,Fragment} from 'react'
import {Link} from 'react-router-dom';
class App extends Component{
    render() {
        return (
            <Fragment>
                <nav className="navbar navbar-default">
                    <div className="container-fluid">
                        <div className="navbar-header">
                            <a className="navbar-brand" href="#">珠峰博客a>
                        div>
                        <div>
                            <ul className="nav navbar-nav">
                                <li><Link to="/">首页Link>li>
                                <li><Link to="/users/signup">注册Link>li>
                                <li><Link to="/users/signin">登录Link>li>
                                <li><Link to="/articles/add">发表文章Link>li>
                            ul>
                        div>
                    div>
                nav>
            Fragment>
        )
    }
}
export default App;
```

```
import {createStore} from 'redux';
import reducers from './reducers';
let store=createStore(reducers);
export default store;
```

```
import {combineReducers} from 'redux';
import user from './user';
export default combineReducers({
  user
});
```

```
let initState={};
export default function (state=initState,action) {
    return state;
}
```

3. 连接组件和仓库

src/components/NavHeader.js

```
import React,{Component} from 'react'
import {Link} from 'react-router-dom';
import {connect} from 'react-redux';
class NavHeader extends Component{
    render() {
        return (
            <nav className="navbar navbar-default">
                    <div className="container-fluid">
                        <div className="navbar-header">
                            <a className="navbar-brand" href="#">珠峰博客a>
                        div>
                        <div>
                            <ul className="nav navbar-nav">
                                <li><Link to="/">首页Link>li>
                                <li><Link to="/users/signup">注册Link>li>
                                <li><Link to="/users/signin">登录Link>li>
                                <li><Link to="/articles/add">发表文章Link>li>
                            ul>
                            <ul className="nav navbar-nav navbar-right">
                            <li>
                                <Link to="/users/signout">欢迎:{this.props.username}Link>
                            li>
                            <li>
                                <Link to="/users/signout">退出Link>
                            li>
                            ul>
                        div>
                    div>
                nav>
        )
    }
}
export default connect(state=>state.user)(NavHeader);
```

src/containers/Home.js

```
import React,{Component} from 'react'
export default class Home extends Component{
    render() {
        return (
            <div>Homediv>
        )
    }
}
```

src/containers/Signin.js

```
import React,{Component} from 'react'
export default class Signin extends Component{
    render() {
        return (
            <div>Signindiv>
        )
    }
}
```

src/containers/Signup.js

```
import React,{Component} from 'react'
export default class Signup extends Component{
    render() {
        return (
            <div>Signupdiv>
        )
    }
}
```

src/containers/article/Add.js

```
import React,{Component} from 'react'
export default class Add extends Component{
    render() {
        return (
            <div>Article Adddiv>
        )
    }
}
```

src/store/reducers/user.js

```
-let initState={};
+let initState={username:'张三'};
```

4. 用户登录

src/components/NavHeader.js

```
 import React,{Component} from 'react'
 import {Link} from 'react-router-dom';
 import {connect} from 'react-redux';
+import actions from '../store/actions/user';
 class NavHeader extends Component{
+    componentDidMount() {
+        this.props.loadUser();
+    }
     render() {
         return (

-                            珠峰博客
+                            珠峰博客

-                                首页
-                                注册
-                                登录
-                                发表文章
-
-
-
-                            欢迎:{this.props.username}

+                            首页
+                            {
+                                !this.props.user&&(注册
+                                )
+                            }
+                            {
+                                !this.props.user&&(登录)
+                            }
+                            {
+                                this.props.user&&this.props.user.admin&&发表文章
+                            }
+
+                        {
+                            this.props.user&&

-                                退出
-
-
+                            欢迎:{this.props.user.username}
+
+
+                                    退出
+
+
+                        }

             )
         }
 }
-export default connect(state=>state.user)(NavHeader);
+export default connect(state=>state.user,actions)(NavHeader);
```

src/containers/App.js

```
-import {Link,Route} from 'react-router-dom';
+import {Route} from 'react-router-dom';
```

src/containers/Signin.js

```
 import React,{Component} from 'react'
-export default class Signin extends Component{
+import actions from '../store/actions/user';
+import {connect} from 'react-redux';
+class Signin extends Component{
+    handleSubmit=(event) => {
+        event.preventDefault();
+        let username=this.username.value;
+        let password=this.password.value;
+        let user={username,password};
+        this.props.login(user);
+    }
     render() {
         return (
-            Signin
+
+
+                    用户名
+                    this.username=input}/>
+
+
+                    密码
+                    this.password=input}/>
+
+
+
+
+                {
+                    this.props.error&&(
+
+
+                            {this.props.error.toString()}
+
+
+                    )
+                }
+
+
+        )
+    }
-}
+}
+export default connect(
+    state => state.user,
+    actions
+)(Signin);
```

src/store/action-types.js

```
export const LOGIN='LOGIN';
export const LOGOUT='LOGOUT';
export const LOGIN_SUCCESS='LOGIN_SUCCESS';
export const LOGIN_ERROR='LOGIN_ERROR';
export const LOGIN_OUT_SUCCESS='LOGIN_OUT_SUCCESS';
export const LOAD_USER='LOAD_USER';
```

src/store/index.js

```
-import {createStore} from 'redux';
+import {createStore,applyMiddleware} from 'redux';
 import reducers from './reducers';
-let store=createStore(reducers);
+import createSagaMiddelware from 'redux-saga';
+import logger from 'redux-logger';
+import rootSaga from './saga';
+import {routerMiddleware} from 'react-router-redux';
+import history from '../history';
+let router=routerMiddleware(history);
+let sagaMiddleware=createSagaMiddelware();
+let store=createStore(reducers,applyMiddleware(sagaMiddleware,router,logger));
+sagaMiddleware.run(rootSaga);
 export default store;
```

src/store/saga.js

```
import * as types from './action-types';
import {put,call,take,all,takeEvery} from 'redux-saga/effects';
import {push} from 'react-router-redux';
import userApi from './api/user';
import {decode} from '../utils/jwt';
function* login(action) {
    try {
        const response=yield call(userApi.login,action.user);
        let {data: {data: {token}}}=response;
        window.localStorage.setItem('token',token);
        const user=decode(token);
        yield put({type: types.LOGIN_SUCCESS,user});
        yield put(push('/'));
    } catch (error) {
        yield put({type: types.LOGIN_ERROR,error});
    }
}
function* logout() {
    window.localStorage.removeItem('token');
    yield put({type: types.LOGIN_OUT_SUCCESS});
    yield put(push('/'));
}
function* loginFlow() {
    yield takeEvery(types.LOGIN,login);
    yield takeEvery(types.LOGOUT,logout);
}
function* loadUser() {
    let token = window.localStorage.getItem('token');
    if (token) {
        const user=decode(token);
        if (user) {
            yield put({type: types.LOGIN_SUCCESS,user});
            yield put(push('/'));
        } else {
            yield put(push('/users/signin'));
        }
    }
}
function* watchLoadUser() {
    yield takeEvery(types.LOAD_USER,loadUser);
}

export default function* rootSaga() {
    yield all([loginFlow(),watchLoadUser()]);
}
```

src/store/actions/user.js

```
import * as types from '../action-types';
export default {
    login(user) {
        return {type:types.LOGIN,user}
    },
    logout() {
        return {type:types.LOGOUT};
    },
    loadUser() {
        return {type:types.LOAD_USER};
    }
}
```

src/store/api/index.js

```
import axios from 'axios';
const BASE_URL='http://localhost:8080';
axios.interceptors.request.use(config => {
    let token=localStorage.getItem('token');
    if (token) {
        config.headers.Authorization=token;
    }
    return config;
});
export function post(url,body) {
    return axios.post(BASE_URL+'/users/signin',body);
}
```

src/store/api/user.js

```
import {post} from './index';
async function login(body) {
    return post('/users/signin',body);
}
export default {
    login
}
```

src/store/reducers/index.js

```
 import {combineReducers} from 'redux';
 import user from './user';
+import {routerReducer} from 'react-router-redux';
 export default combineReducers({
+  router:routerReducer
 });
```

src/store/reducers/user.js

```
-let initState={username:'张三'};
+import * as types from '../action-types';
+let initState={};
 export default function (state=initState,action) {
-    return state;
+    switch (action.type) {
+        case types.LOGIN_SUCCESS:
+            return {...state,user:action.user,error: null};
+        case types.LOGIN_ERROR:
+            return {...state,user: null,error: action.error};
+            case types.LOGIN_OUT_SUCCESS:
+            return {...state,user: null,error: null};
+        default:
+            return state;
+    }
}
```

src/utils/jwt.js

```
import jwt from 'jsonwebtoken';
export function decode(token) {
    return jwt.decode(token);;
}
```

5. 发表文章权限控制

src/containers/article/Add.js

```
 import React,{Component} from 'react'
-export default class Add extends Component{
+import actions from '../../store/actions/article';
+import {connect} from 'react-redux';
+class Signin extends Component{
+    handleSubmit=(event) => {
+        event.preventDefault();
+        let title=this.title.value;
+        let content=this.content.value;
+        let article={title,content};
+        this.props.add(article);
+    }
    render() {
        return (
-            Article Add
+
+
+                        标题
+                        this.title=input}/>
+
+
+                        内容
+                        this.content=input}/>
+
+
+
+
+                {
+                        this.props.error&&(
+
+
+                                    {this.props.error.toString()}
+
+
+                    )
+                }
+
+
+            )
+        }
-}
+}
+export default connect(
+    state => state.article,
+    actions
+)(Signin);
```

src/store/action-types.js

```
-export const LOAD_USER='LOAD_USER';
+export const LOAD_USER='LOAD_USER';
+export const ADD_ARTICLE='ADD_ARTICLE';
+export const ADD_ARTICLE_SUCCESS='ADD_ARTICLE_SUCCESS';
+export const ADD_ARTICLE_ERROR='ADD_ARTICLE_ERROR';
```

src/store/saga.js

```
+function* addArticle(action) {
+    try {
+        debugger;
+        yield call(articleApi.add,action.article);
+        yield put(push('/'));
+    } catch (error) {
+        yield put({type: types.ADD_ARTICLE_ERROR,error});
+    }
+}
+
+function* watchAddArticle() {
+    yield takeEvery(types.ADD_ARTICLE,addArticle);
+}
+
 export default function* rootSaga() {
-    yield all([loginFlow(),watchLoadUser()]);
+    yield all([loginFlow(),watchLoadUser(),watchAddArticle()]);
 }
```

src/store/actions/article.js

```
import * as types from '../action-types';
export default {
    add(article) {
        return {type:types.ADD_ARTICLE,article}
    }
}
`
```

src/store/api/article.js

```
import {post} from '.';
async function add(body) {
    return post('/articles/add',body);
}
export default {
    add
}
```

src/store/api/index.js

```
-    return axios.post(BASE_URL+'/users/signin',body);
+    return axios.post(BASE_URL+url,body);
```

src/store/api/user.js

```
-import {post} from './index';
+import {post} from '.';
 async function login(body) {
    return post('/users/signin',body);
 }
```

src/store/reducers/article.js

```
import * as types from '../action-types';
let initState={};
export default function (state=initState,action) {
    switch (action.type) {
        case types.ADD_ARTICLE_ERROR:
            return {...state,user: null,error: action.error};
        default:
            return state;
    }
}
```

src/store/reducers/index.js

```
+ import {routerReducer} from 'react-router-redux';
export default combineReducers({
  user,
+  article,
  router:routerReducer
});
```

参考仓库