day17笔记

1、react-router-dom

- react-router 核心库
- react-router-dom DOM操作路由库
- react-router-native ReactNative 的路由库
- 文档地址: https://reactrouter.com/web/guides/quick-start
- 如何使用

```
npm i react-router-dom
```

2、基础语法

2.1、基础使用

- 路由模式组件必须是顶层组件(**所有的路由组件都必须在路由模式组件包裹范围之内!!!**)
- 路由的配置

```
<HashRouter>
 <Header/>
 <div className="container">
   <Switch>
        <Route path="/" exact component={Index} ></Route>
       <Route path="/about" component={About} ></Route>
       <Route path="/news" exact >
           <News />
        </Route>
       <Route path="/news/:id" component={Info} ></Route>
       <Route path="/user" component={User} ></Route>
       <Route path="/404">
           <Notfound />
       </Route>
       {/* 404的配置,一定要放在最下方!!! */}
        <Route path="/*">
           <Redirect to='/404' />
       </Route>
   </Switch>
 </div>
</HashRouter>
```

- 常用组件
 - BrowserRouter history模式
 - HashRouter history模式
 - o Route 路由映射组件
 - path
 - component
 - exact 严格模式
 - Switch 匹配到第一个匹配就跳出!
 - o NavLink 导航链接,有激活class,默认为active!
 - exact
 - to
 - o Link 普通链接
 - to
 - to='/地址'
 - to={pathname:'/地址',search:'?a=b&c=d',hash:'#e=f&g=h'}
 - Redirect
 - to 重定向

2.2、动态路由

● 配置路由

```
<Route path="/news/:id" component={Info} ></Route>
```

● 设置链接

• 获取参数

```
// 动态路由的数据!
console.log(this.props.match.params)
```

注意:

使用Route组件建立映射关系,如果component属性指定了对应的组件!那么该组件的props 里面将会包含路由相关信息! 如果不是页面组件,或者页面组件不是通过component设立的,那么可以使用 withRouter 来进行数据的设置

2.3、编程式导航

• 编程式导航

```
this.props.history.go()/goBack()/goForward()/replace()/push()
```

- 如果在非组件里面的JS中使用编程式导航跳转
 - o hash模式! 推荐

```
import { createHashHistory } from "history"
const history = createHashHistory();
history.go()/goBack()/goForward()/replace()/push()
```

o history模式!

```
// history.js文件
import { createBrowserHistory } from "history"

const history = createBrowserHistory();

export default history;
```

任意代码位置:

```
import history "./history.js"
history.go()/goBack()/goForward()/replace()/push()
```

2.4、嵌套路由

- 嵌套路由的配置是写在对应的嵌套页面组件里面,而不是顶级
- 嵌套路由的上级路由不能是严格模式!

```
import React, { Component } from 'react';
import { NavLink, Route, Switch } from 'react-router-dom';
import { createHashHistory } from "history"
import UserIndex from "./UserIndex"
import UserClass from "./UserClass"
import UserOrder from "./UserOrder"
import UserInfo from "./UserInfo"
let history = createHashHistory();
class User extends Component {
   quit=()=>{
       // this.props.history.push('/')
       history.push('/')
   render() {
       return (
           <div className="main">
               <div className="nav">
                   <u1>
                      <NavLink activeClassName="on" to='/user/class'>我的课
程</NavLink>
                      <NavLink activeClassName="on" to='/user/order'>我的订
单</NavLink>
                      <NavLink activeClassName="on" to='/user/info'>我的资料
</NavLink>
                   </div>
```

```
<div className="box">
                  <div>
                      <div>欢迎您:<button onClick={this.quit}>退出</button></div>
                      <hr/>
                      {/* 主体内容 */}
                      <Switch>
                          <Route path="/user/" exact component={UserIndex}></Route>
                          <Route path="/user/order" component={UserOrder}></Route>
                          <Route path="/user/class" component={UserClass}></Route>
                          <Route path="/user/info" component={UserInfo}></Route>
                      </Switch>
                  </div>
              </div>
           </div>
       );
   }
}
// 嵌套路由:
   // 嵌套路由的配置是写在对应的嵌套页面组件里面, 而不是顶级!
   // 嵌套路由的上级路由不能是严格模式!
export default User;
```

2.5、导航守卫

- 思路: 让所有 Route 组件渲染的时候都走同一个函数,在这个函数里面去做拦截!
- 实现:
 - 思路引导1

○ 思路引导2

```
class MyRouter extends Component {
    renderCom=(val)=>{
```

使用render去渲染组件,组件当然也没有了props!可以使用withRouter来进行处理!

○ 思路引导3

```
// 路由的配置信息!
const routeConfig = [
    { path: "/", exact: true, component: <Index />, title: "首页" },
    {path:"/about", exact:false, component:<About/>,title:"关于我们"},
    { path: "/news", exact: true, component:<News/>,title:"新闻列表"},
   { path: "/news/:id", exact: false, component: <Info />, title: "新闻详情"
},
    { path: "/user", exact: false, component: <User />, title: "用户中
心",needLogin:true },
    { path: "/login", exact: false, component: <Login />, title: "登录" },
    { path: "/404", exact: false, component: <Notfound />, title: "404页面"
},
   { path: "/*", exact: false, redirect: "/404"}
]
class MyRouter extends Component {
    renderCom=(val)=>{
        document.title = val.title
        if(val.redirect){
           return <Redirect to={val.redirect} />
       }else{
           // 这里!!! 要做判断! 登录判断, 权限判断!!!
           if (val.needLogin){
               if (localStorage.getItem('userinfo')) {
                   return val.component;
               } else {
                   return <Redirect to="/login" />
               }
           }else{
```

```
return val.component;
           }
       }
   }
   render() {
       return (
           <Switch>
               {/* <Route path="/" exact render={()</pre>
=>this.renderCom(<Index/>)} ></Route>
               <Route path="/about" render={() =>this.renderCom(<About/>)}
></Route>
               <Route path="/news" render={() =>this.renderCom(<News/>)} >
</Route> */}
               {routeConfig.map((val,idx)=>{
                   return <Route key={idx} path={val.path} exact={val.exact}</pre>
render={() => this.renderCom(val)} ></Route>
               })}
           </Switch>
       );
   }
}
export default MyRouter;
// 让所有的组件都走renderCom函数,在这个函数里面去做标题设置、权限判断、等等,符合条
件就返回对应的组件内容。
```

2.6、路由懒加载

● 核心插件: react-loadable

● 文档地址: https://www.npmjs.com/package/react-loadable

● 使用

```
yarn add react-loadable
// 或者
npm i react-loadable
```

```
import Loadable from 'react-loadable';
import Loading from './my-loading-component'; // 自定义等待组件

const LoadableComponent = Loadable({
  loader: () => import('./my-component'),
  loading: Loading,
});

/*
```

```
const 异步组件 = Loadable({
  loader:()=>import('组件')
  loading:等待组件
})
*/
```

示例

```
import Loadable from 'react-loadable';
import Loading from '../components/Loading';
// import Index from "../pages/Index"
// import About from "../pages/About"
// import News from "../pages/News"
// import Info from "../pages/Info"
// import User from "../pages/User"
// import Notfound from "../pages/Notfound"
// import Login from "../pages/Login"
const Index = Loadable({ loader: () => import("../pages/Index"), loading: Loading
const About = Loadable({ loader: () => import("../pages/About"), loading: Loading
})
const News = Loadable({ loader: () => import("../pages/News"), loading: Loading })
const User = Loadable({ loader: () => import("../pages/User"), loading: Loading })
const Notfound = Loadable({ loader: () => import("../pages/Notfound"), loading:
Loading })
const Login = Loadable({ loader: () => import("../pages/Login"), loading: Loading
})
const Info = Loadable({ loader: () => import("../pages/Info"), loading: Loading})
```