高阶组件装饰器

装饰器函数的整个演变过程如下

```
import React from 'react';
// 1 组件原型
class Reg extends React.Component {
   render() {
        return <_Reg service={service} />;
   }
}
// 2 匿名组件
const Reg = class extends React.Component {
   render() {
       return <_Reg service={service} />;
   }
           .cends React.Component {
der() {
  return <Comp service={service} />;
};
// 3 提参数
function inject(Comp) {
    return class extends React.Component {
        render() {
        }
   };
}
// 继续提参数
function inject(service, Comp) {
    return class extends React.Component {
        render() {
           return <Comp service={service} />;
       }
   };
}
// 4 props
function inject(obj, Comp) {
   return class extends React.Component {
        render() {
           return <Comp {...obj} />;
        }
   };
}
// 5 柯里化
function inject(obj) {
   function wrapper(Comp) {
```

```
return class extends React.Component {
           render() {
              return <Comp {...obj} />;
       };
   }
   return wrapper;
}
// 变形
function inject(obj) {
   return function wrapper(Comp) {
       return class extends React.Component {
           render() {
              return <Comp {...obj} />;
          }
       };
   };
}
// 6 箭头函数简化
const inject = obj => {
   return Comp => {
                                      工人的资源取业学院
       return class extends React.Component {
           render() {
              return <Comp {...obj} />;
       };
   };
}
// 继续简化
const inject = obj => Comp => {
   return class extends React.Component {
       render() {
           return <Comp {...obj} />;
   };
};
/**
* 本质上就是被包装的组件Comp作为了返回的新匿名组件的子组件
* 换句话说,也就是原来的组件Comp被包装成一个新的组件,增强的功能通过obj属性注入
*/
// 7 函数式组件简化
const inject = obj => Comp => {
   return props => <Comp {...obj} />;
}
const inject = obj => Comp => props => <Comp {...obj} />;
const inject = obj => Comp => props => <Comp {...obj} {...props}/>;
```

```
import React from 'react';

const inject = obj => Comp => props => <Comp {...obj} {...props}/>;

export {inject};
```

将登陆、注册组件装饰一下

```
// reg.js修改如下
import React from 'react';
import { Link, Redirect } from 'react-router-dom';
import '../css/login.css'
import { observer } from 'mobx-react';
import { userService as service } from '../service/user';
import {inject} from '../utils';
// 注意装饰器顺序
@inject({service}) //+ 装饰器注入属性
@observer
export default class Reg extends React.Component {
                                          人的海斯职业学院
   validatePwd(pwd1, pwd2) {
       return pwd1.value === pwd2.value
   }
   handleClick(event) {
       event.preventDefault();
       const [name, email, password, confirm] = event.target.form;
       console.log(this.validatePwd(password, confirm)) // +要验证表单数据后才发往后台
       this.props.service.reg(name.value, email.value, password.value);
   }
   render() {
       if (this.props.service.loggedin) return <Redirect to="/" />
       let em = this.props.service.errMsg; //+ 引用这个值留作观察
       return (
           <div className="login-page">
              <div className="form">
                  <form className="register-form">
                      <input type="text" placeholder="姓名" />
                      <input type="text" placeholder="邮箱" />
                      <input type="password" placeholder="密码" />
                      <input type="password" placeholder="确认密码" />
                      <button onClick={this.handleClick.bind(this)}>注册
                      如果已经注册 <Link to="/login">请登录</Link>
                  </form>
              </div>
           </div>
       );
```

```
componentDidUpdate(nextProps, nextState) { //+ 渲染后显示消息组件
   if (nextProps.service.errMsg) {
       message.info(this.props.service.errMsg, 3, () => nextProps.service.errMsg = '');
   }
}
```

```
// login.js修改如下
//component/login.js
import React from 'react';
import {Link, Redirect} from 'react-router-dom';
import '../css/login.css'
import {observer} from 'mobx-react';
import {userService as service} from '../service/user';
import { message } from 'antd'; // 增加消息组件
import {inject} from '../utils';
import 'antd/lib/message/style'; // 增加样式
// 注意装饰器顺序
@inject({service}) //+ 装饰器注入属性
                                         人的高薪瓜业学院
@observer
export default class Login extends React.Component
   handleClick(event) {
       event.preventDefault();
       let fm = event.target.form;
       this.props.service.login(
           fm[0].value, fm[1].value
       );
   }
   render() {
       console.log("~~~~~")
       if (this.props.service.loggedin) {
           return <Redirect to='/' />; // 跳转
       }
       let em = this.props.service.errMsg; // 引用这个值留作观察
       return (<div className="login-page">
           <div className="form">
              <form className="login-form">
                  <input type="text" placeholder="邮箱" />
                  <input type="password" placeholder="密码" />
                  <button onClick={this.handleClick.bind(this)}>登录</button>
                  还未注册? <Link to="/reg">请注册</Link>
               </form>
           </div>
       </div>);
   }
```

```
componentDidUpdate(nextProps, nextState) { //+ 渲染后显示消息组件
  if (nextProps.service.errMsg) {
    message.info(this.props.service.errMsg, 3, ()=>nextProps.service.errMsg='');
  }
}
```

Mobx的observer装饰器有要求, 所以装饰的顺序要注意一下

