

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} />;
  }
};

// 3 提参数
function inject(Comp) {
  return class extends React.Component {
    render() {
      return <Comp service={service} />;
    }
  };
}

// 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 => {
        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} />;
        }
    };
};

// 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}/>;

```

新建src/utils.js，放入以下内容

```
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

```
// login.js修改如下
import React from 'react';
import {Link, Redirect} from 'react-router-dom';
import '../css/login.css'
import UserService from '../service/user';
import {observer} from 'mobx-react';
import { message } from 'antd';
import 'antd/lib/message/style';
import { inject } from '../utils';

const service = new UserService();

// 注意装饰器顺序
@Inject({service}) // 生成{service:service}对象
@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="/" />;
    }

    if (this.props.service.errMsg) {
      message.info(this.props.service.errMsg, 3,
        () => setTimeout(()=>this.props.service.errMsg = ''),1000);
    }

    return (<div className="login-page">
      <div className="form">
        <form className="login-form">
          <input type="text" placeholder="邮箱" value='tom@magedu.com' />
          <input type="password" placeholder="密码" />
          <button onClick={this.handleClick.bind(this)}>登录</button>
          <p className="message">还未注册? <Link to="/reg">请注册</Link></p>
        </form>
      </div>
    </div>
```

```

    </div>);
  }
}

```

// reg.js修改如下

```

import React from 'react';
import { Link, Redirect } from 'react-router-dom';
import './css/login.css'
import UserService from '../service/user';
import { observer } from 'mobx-react';
import { message } from 'antd';
import 'antd/lib/message/style';
import { inject } from '../utils';

const service = new UserService();

// 注意装饰器顺序
@inject({service}) // 生成{service:service}对象
@observer
export default class Reg extends React.Component {
  handleClick(event) {
    event.preventDefault();
    let fm = event.target.form;
    this.props.service.reg(fm[0].value, fm[1].value, fm[2].value);
  }

  render() {
    if (this.props.service.loggedin){
      return <Redirect to="/" />;
    }

    if (this.props.service.errMsg) {
      message.info(this.props.service.errMsg, 3,
        () => setTimeout(()=>this.props.service.errMsg = ''),1000);
    }

    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</button>
            <p className="message">如果已经注册 <Link to="/login">请登录</Link></p>
          </form>
        </div>
      </div>
    );
  }
}

```

Mobx的observer装饰器有要求，所以装饰的顺序要注意一下

