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## 1.UmiJS #

- [UmiJS \(https://umijs.org/zh/guide/\)](https://umijs.org/zh/guide/) 是一个类 Next.JS 的 react 开发框架。
- 他基于一个约定，即 pages 目录下的文件即路由，而文件则导出 react 组件
- 然后打通从源码到产物的每个阶段，并配以完善的插件体系，让我们能把 umi 的产物部署到各种场景里。

## 2.安装 #

- [umi源码 \(https://github.com/umijs/umi\)](https://github.com/umijs/umi)
- [create-umi \(https://github.com/umijs/create-umi\)](https://github.com/umijs/create-umi)
- [umi-plugin-react文档 \(https://umijs.org/zh/plugin/umi-plugin-react.html\)](https://umijs.org/zh/plugin/umi-plugin-react.html)
- [umi-plugin-react源码 \(https://github.com/umijs/umi/tree/master/packages/umi-plugin-react\)](https://github.com/umijs/umi/tree/master/packages/umi-plugin-react)
- [umi-plugin-dva \(https://github.com/umijs/umi/tree/master/packages/umi-plugin-dva\)](https://github.com/umijs/umi/tree/master/packages/umi-plugin-dva)
- [dva-immersrc \(https://github.com/dvajs/dva/blob/master/packages/dva-immersrc/index.js\)](https://github.com/dvajs/dva/blob/master/packages/dva-immersrc/index.js)
- [immer \(https://immerjs.github.io/immer/docs/introduction\)](https://immerjs.github.io/immer/docs/introduction)
- [umi-blocks \(https://github.com/umijs/umi-blocks\)](https://github.com/umijs/umi-blocks)
- [pro-blocks \(https://github.com/ant-design/pro-blocks\)](https://github.com/ant-design/pro-blocks)

```
cnpm install -g umi
```

### 2.1 目录约定 #

```
.
├── dist/
├── mock/
├── config/
│   └── config.js
├── src/
│   ├── layouts/index.js
│   └── pages/
│       ├── .umi/
│       ├── .umi-production/
│       ├── document.ejs
│       ├── 404.js
│       ├── page1.js
│       ├── page1.test.js
│       └── page2.js
│   ├── global.css
│   └── global.js
├── .umirc.js
├── .env
└── package.json
```

## 3. 新建项目 #

### 3.1 新建项目目录 #

```
mkdir zhufeng-umi
cd zhufeng-umi
cnpm init -y
```

### 3.2 新建pages目录 #

```
mkdir pages
```

### 3.3 新建页面 #

- [generate \(https://github.com/umijs/umi/blob/5f450307b47f79fdd5fc8904294fd1aa6709f8c/packages/umi-build-dev/src/plugins/commands/generate/index.js\)](https://github.com/umijs/umi/blob/5f450307b47f79fdd5fc8904294fd1aa6709f8c/packages/umi-build-dev/src/plugins/commands/generate/index.js)
- [link.js \(https://github.com/umijs/umi/blob/master/packages/umi/src/link.js\)](https://github.com/umijs/umi/blob/master/packages/umi/src/link.js)
- [router.js \(https://github.com/umijs/umi/blob/master/packages/umi/src/router.js\)](https://github.com/umijs/umi/blob/master/packages/umi/src/router.js)

#### 3.3.1 Home组件 #

```
umi g page index
```

pagesindex.js

```
import React, { Component } from 'react'
import Link from 'umi/link';
export default class componentName extends Component {
  render() {
    return (
      <div>
        首页
        <Link to="/profile">个人中心Link</Link>
      </div>
    )
  }
}
```

#### 3.3.2 个人中心 #

```
umi g page profile
```

pagesprofile.js

```
import React, { Component } from 'react'
import router from 'umi/router';
export default class componentName extends Component {
  render() {
    return (
      <div>
        <button onClick={() => router.goBack()} >返回button</button>
        个人中心
      </div>
    )
  }
}
```

### 3.3.3 启动服务器 #

#### 3.3.3.1 启动配置 #

```
"scripts": {
  "dev": "umi dev",
  "build": "umi build",
  "test": "umi test",
  "serve": "serve ./dist"
}
```

#### 3.3.3.2 启动项目 #

```
npm run dev
```

#### 3.3.3.3 部署发布 #

- 

```
npm run build
```

#### 3.3.3.4 本地验证 #

```
npm run serve
```

#### 3.3.3.5 测试 #

```
test\sum.test.js
```

```
let assert = require('assert');
describe('sum', () => {
  it('1+1', () => {
    assert(1+1==2);
  });
});
```

```
npm run test
```

## 4. 全局 layout #

- 约定 src/layouts/index.js 为全局路由，返回一个 React 组件，通过 props.children 渲染子组件。

```
cnpm i bootstrap@3 -S
```

```
src/layouts/index.js
```

```
import React, { Component, Fragment } from 'react';
import 'bootstrap/dist/css/bootstrap.css';
import Link from 'umi/link';
export default class Layout extends Component {
  render() {
    return (
      <Fragment>
        <nav className="navbar navbar-default">
          <div className="container-fluid">
            <div className="navbar-header">
              <Link to="/" className="navbar-brand">珠峰培训Link</Link>
            </div>
            <div>
              <ul className="nav navbar-nav">
                <li className="active"><Link to="/" >首页Link</li>
                <li><Link to="/user" >用户管理Link</li>
                <li><Link to="/profile" >个人设置Link</li>
              </ul>
            </div>
          </div>
          <nav>
            <div className="container">
              <div className="row">
                <div className="col-md-12">
                  {this.props.children}
                </div>
              </div>
            </div>
          </nav>
        </Fragment>
      </div>
    )
  }
}
```

## 5. 用户管理 #

### 5.1 嵌套路由 #

- umi 里约定目录下 \_layout.js 时会生成嵌套路由，以 \_layout.js 为该目录的 layout pages/user/\_layout.js

```
import React, {Component, Fragment} from 'react';
import Link from 'umi/link';
export default class User extends Component {
  render() {
    return (
      <div className="row">
        <div className="col-md-3">
          <ul className="nav nav-stack">
            <li><Link to="/user/list">用户列表Link</li>
            <li><Link to="/user/add">新增用户Link</li>
          </ul>
        </div>
        <div className="col-md-9">
          {this.props.children}
        </div>
      </div>
    )
  }
}
```

## 5.2 user/list.js #

/pages/user/list.js

```
import React, {Component, Fragment} from 'react';
import Link from 'umi/link';
export default class List extends Component {
  render() {
    return (
      <ul className="list-group">
        <li className="list-group-item">
          <Link to="/user/detail/1">1Link</li>
        </li>
      </ul>
    )
  }
}
```

## 5.3 pages/user/add.js #

pages/user/add.js

```
import React, {Component, Fragment} from 'react';
export default class Add extends Component {
  render() {
    return (
      <form className="form-horizontal">
        <div className="form-group">
          <label className="control-label col-md-2">用户名label</label>
          <div className="col-md-10">
            <input className="form-control" />
          </div>
        </div>
        <div className="form-group">
          <div className="col-md-10 col-offset-2">
            <input type="submit" className="btn btn-primary"/>
          </div>
        </div>
      </form>
    )
  }
}
```

## 5.3 动态路由 #

- umi 里约定，带 \$ 前缀的目录或文件为动态路由。 pages/user/detail/\$id.js

```
import React, {Component, Fragment} from 'react';
export default class List extends Component {
  render() {
    console.log(this.props);
    return (
      <table className="table table-bordered">
        <thead>
          <tr>
            <td>字段td</td>
            <td>值td</td>
          </tr>
        </thead>
        <tbody>
          <tr>
            <td>1td</td>
            <td>张三td</td>
          </tr>
        </tbody>
      </table>
    )
  }
}
```

## 6. 权限路由 #

- umi 的权限路由是通过配置路由的 Routes 属性来实现。约定式的通过 yaml 注释添加，配置式的直接配上即可。
- PrivateRoute.js 的位置是相对于根目录的

### 6.1 profile.js #

### 6.2 PrivateRoute.js #

PrivateRoute.js

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

export default ({ render, ...others }) => {
  return <Route
    {...others}
    render={props => localStorage.getItem('login')?render(props):<Redirect to={{pathname:'/login',state:{from:props.location.pathname}}}/>
  />;
}
```

### 6.3 pages/login.js #

pages/login.js

```
import React, { Component } from 'react'
import Link from 'umi/link';
import router from 'umi/router';
export default class componentName extends Component {
  login = ()=>{
    localStorage.setItem('login','true');
    if(this.props.location.state&&this.props.location.state.from){
      router.push(this.props.location.state.from);
    }
  }
  render() {
    return (
      <button onClick={this.login}>登录button</button>
    )
  }
}
```

## 7. umi dev #

### 7.1 安装依赖 #

```
cnpm i @babel/core @babel/plugin-proposal-class-properties @babel/plugin-proposal-decorators @babel/preset-env @babel/preset-react babel-loader css-loader file-loader html-webpack-plugin react react-dom react-router-dom style-loader url-loader bootstrap@3 webpack webpack-cli webpack-dev-server -S
```

### 7.2 webpack.config.js #

webpack.config.js

```
const path = require("path");
const htmlWebpackPlugin = require('html-webpack-plugin');
module.exports = {
  context: process.cwd(),
  entry: './src/index.js',
  output: {
    path: path.resolve(__dirname, "dist"),
    filename: "bundle.js"
  },
  module: {
    rules: [
      {
        test: /\.js$/,
        use: {
          loader: "babel-loader",
          options: {
            presets: ["@babel/preset-env","@babel/preset-react"],
            plugins: [
             ["@babel/plugin-proposal-decorators", { legacy: true }],
             ["@babel/plugin-proposal-class-properties", { loose: true }]
            ]
          }
        }
      },
      {
        test:/\.css$/,
        use:[
          "style-loader","css-loader"
        ]
      }
    ]
  },
  plugins: [new htmlWebpackPlugin({
    template:'./src/index.html'
  })],
  devServer: {
    contentBase:path.resolve('dist')
  }
};
```

### 7.3 index.html #

Document

### 7.4 index.js #

```
import React from 'react';
import ReactDOM from 'react-dom';
import Router from './router';
ReactDOM.render(<Router/>,document.getElementById('root'));
```

### 7.5 src/router.js #

```

import React from "react";
import { HashRouter as Router, Route } from "react-router-dom";
let routesConfig = require("../routesConfig");
function renderRoutes(routesConfig) {
  return routesConfig.map(({ path, exact = false, routes, component: RouteComponent, Routes: PrivateRoute }, index) => (
    <Route key={index} path={path} exact={exact} render={
      props => {
        let render = props => (
          <RouteComponent {...props}>
            {routes && routes.length > 0 && renderRoutes(routes)}
          <RouteComponent>
        )
        if (PrivateRoute) {
          let privateRouteProps = { render, path, exact };
          return <PrivateRoute {...privateRouteProps} />
        } else {
          return render(props);
        }
      }
    } />
  ));
}
export default props => <Router>{renderRoutes(routesConfig)}Router>;

```

## 7.5 src\routes.config.js #

```

module.exports = [
  {
    "path": "/",
    "component": require('../layouts/index.js').default,
    "routes": [
      {
        "path": "/",
        "exact": true,
        "component": require('../pages/index.js').default
      },
      {
        "path": "/login",
        "exact": true,
        "component": require('../pages/login.js').default
      },
      {
        "path": "/profile",
        "exact": true,
        "component": require('../pages/profile.js').default,
        "Routes": require('../PrivateRoute.js').default
      }
    ]
  }
];

```