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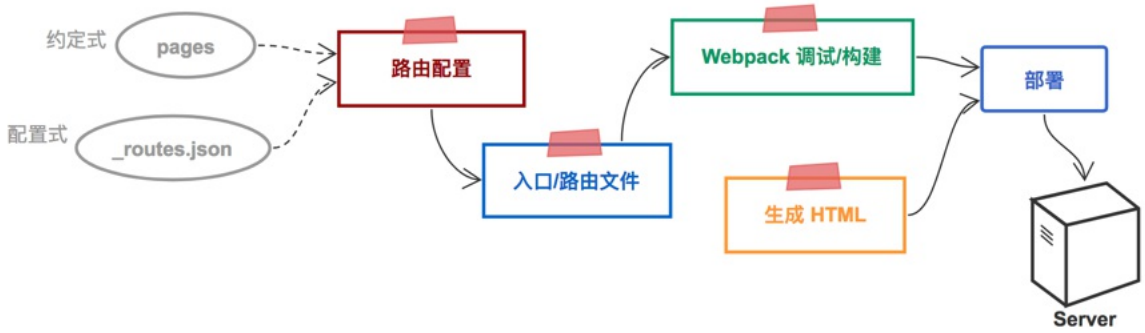
1.UmiJS

- UmiJS (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)
- create-umi (https://github.com/umijs/create-umi)
- umi-plugin-react文档 (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)
- umi-plugin-dva (https://github.com/umijs/umi/tree/master/packages/umi-plugin-dva)
- dva-immer (https://github.com/dvajs/dva/blob/master/packages/dva-immer/src/index.js)
- immer (https://immerjs.github.io/immer/docs/introduction)
- umi-blocks (https://github.com/umijs/umi-blocks)
- 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/5f450307b47f79fdd5fc8904294fd1aea6709f8c/packages/umi-build-dev/src/plugins/commands/generate/index.js)
- 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)

3.3.1 Home组件

```
umi g page index
```

pages\index.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>
      div>
    )
  }
}
```

3.3.2 个人中心

```
umi g page profile
```

pages\profile.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>
        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>
                      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>

          Fragment>
      )
  }
}
```

5. 用户管理

5.1 嵌套路由

- umi 里约定目录下有 _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>
            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>
                    <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>值td>
                  tr>
              thead>
              <tbody>
                  <tr>
                      <td>1td>
                      <td>张三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>
    )
  }
}
```

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
      }
    ]
  }
];
```