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1. 安装 dva-cli

```
$ npm install dva-cli -g  
$ dva -v
```

2. 创建新应用

```
$ dva new zhufeng-umi-dva  
$ cd zhufeng-umi-dva  
$ npm start
```

3. 使用 antd

- babel-plugin-import 是用来按需加载 antd 的脚本和样式的
- 编辑 .webpackrc, 使 babel-plugin-import 插件生效。

```
cnpm i antd -S  
cnpm i babel-plugin-import -D
```

```
{  
  "extraBabelPlugins": [  
    ["import", { "libraryName": "antd", "libraryDirectory": "es", "style": "css" }]  
  ]  
}
```

4. 首页导航

src/router.js

- 去掉exact属性

+

src/routes/IndexPage.js

```
import React from 'react';  
import { connect } from 'dva';  
import styles from './IndexPage.less';  
import {Layout} from 'antd';  
import NavBar from '../components/NavBar';  
const {Content} = Layout;  
function IndexPage(props) {  
  return (  
    <Layout>  
      <NavBar {...props}/>  
      <Content>内容Content</Content>  
    </Layout>  
  );  
}  
export default connect()(IndexPage);
```

src/components/NavBar/index.js

```
import styles from './index.less';  
import {Link} from 'dva/router';  
import React, { Component } from 'react';  
import {Layout,Menu} from 'antd';  
let logo = require('../../assets/logo.png');  
export default class NavBar extends Component {  
  render() {  
    return (  
      <Layout.Header className={styles.header}>  
        <img src={logo}/>  
        <Menu className={styles.menu} mode="horizontal" selectedKeys={[this.props.location.pathname]} >  
          <Menu.Item key="/home"><Link to="/home">主页Link</Menu.Item>  
          <Menu.Item key="/user"><Link to="/user">用户管理Link</Menu.Item>  
          <Menu.Item key="/profile"><Link to="/profile">个人中心Link</Menu.Item>  
          <Menu.Item key="/login"><Link to="/login">登录Link</Menu.Item>  
          <Menu.Item key="/register"><Link to="/register">注册Link</Menu.Item>  
        </Menu>  
      </Layout.Header>  
    );  
  }  
}
```

src/components/NavBar/index.less

```
.header{  
  height:48px;  
  line-height: 48px;  
  background-color: #FFF;  
  img{  
    height:48px;  
  }  
  .menu{  
    display:inline-block;  
    height:48px;  
  }  
}
```

5. 实现路由

src/routes/IndexPage.js

```
import React from 'react';
import { connect } from 'dva';
import styles from './IndexPage.less';
import {Layout} from 'antd';
import NavBar from '../components/NavBar';
import {Route,Switch,Redirect} from 'dva/router';
import Home from './Home';
import User from './User';
import Profile from './Profile';
import Register from './Register';
import Login from './Login';
const {Content} = Layout;
function IndexPage(props) {
  return (
    <Layout>
      <NavBar {...props}/>
      <Content>
        <Switch>
          <Route path="/home" component={Home} />
          <Route path="/user" component={User} />
          <Route path="/profile" component={Profile} />
          <Route path="/register" component={Register} />
          <Route path="/login" component={Login} />
          <Redirect to="/home"/>
        </Switch>
      </Content>
    </Layout>
  );
}
export default connect()(IndexPage);
```

6. 配置式路由

src/router.js

```
import React from 'react';
import { Router, Switch } from 'dva/router';
import {renderRoutes} from './utils/routes';
import routesConfig from './routeConfig';
function RouterConfig({ history }) {
  return (
    <Router history={history}>
      <Switch>
        {renderRoutes(routesConfig)}
      </Switch>
    </Router>
  );
}
export default RouterConfig;
```

src/routes/IndexPage.js

```
import React from 'react';
import { connect } from 'dva';
import {Layout} from 'antd';
import NavBar from '../components/NavBar';
import {Switch} from 'dva/router';
import NoMatch from '../components/NoMatch';
import {renderRoutes,renderRedirect} from './utils/routes';
const {Content} = Layout;
function IndexPage(props) {
  return (
    <Layout>
      <NavBar {...props}/>
      <Content>
        <Switch>
          {renderRoutes(props.routes)}
          {/**把/重定向到/home**/}
          {renderRedirect('/',true,props.routes)}
          <NoMatch/>
        </Switch>
      </Content>
    </Layout>
  );
}
export default connect()(IndexPage);
```

src/utils/routes.js

```
import {Route,Redirect} from 'dva/router';
export function renderRoutes(routesConfig){
  return routesConfig.map(({path,exact=false,component:Component,routes=[]},index)=>{
    <Route path={path} exact={exact} key={index} render={props=><Component {...props} routes={routes}/>}/>
  ))
}
export function renderRedirect(from,exact,routesConfig){
  let {path} = routesConfig.find(route=>route.redirect)||routesConfig[0];
  return <Redirect exact={exact} from={from} to={path}/>
}
```

src/routeConfig.js

```
import IndexPage from './routes/IndexPage';
import Home from './routes/Home';
import User from './routes/User';
import Profile from './routes/Profile';
import Register from './routes/Register';
import Login from './routes/Login';
export default [
  {
    path: '/',
    component: IndexPage,
    routes: [
      {
        path: '/home',
        redirect: true,
        component: Home
      },
      {
        path: '/user',
        component: User
      },
      {
        path: '/profile',
        component: Profile
      },
      {
        path: '/login',
        component: Login
      },
      {
        path: '/register',
        component: Register
      }
    ]
  }
]
```

src/components/NoMatch/index.js

```
import React from 'react'

export default () => {
  return (
    <div>
      此页面不存在
    </div>
  )
}
```

7. 按需加载

src/routeConfig.js

```
export default [
  {
    path: '/',
    component: () => import('./routes/IndexPage'),
    routes: [
      {
        path: '/home',
        models: [import('./models/home')],
        component: () => import('./routes/Home')
      },
      {
        path: '/user',
        component: () => import('./routes/User')
      },
      {
        path: '/profile',
        component: () => import('./routes/Profile')
      },
      {
        path: '/login',
        component: () => import('./routes/Login')
      },
      {
        path: '/register',
        component: () => import('./routes/Register')
      }
    ]
  }
]
```

src/router.js

```
import React from 'react';
import { Router, Switch } from 'dva/router';
import { renderRoutes } from './utils/routes';
import routesConfig from './routeConfig';
function RouterConfig({ history, app }) {
  return (
    <Router history={history}>
      <Switch>
        {renderRoutes(routesConfig, app)}
      </Switch>
    </Router>
  );
}

export default RouterConfig;
```

src/routes/Home/index.js

```
import React, { Component } from 'react'
import styles from './index.less';
import { connect } from 'dva';
class componentName extends Component {
  render() {
    return (
      <div>
        {this.props.title}
      </div>
    )
  }
}
export default connect(state=>state.home) (componentName);
```

src/routes/IndexPage.js

```
import React from 'react';
import { connect } from 'dva';
import {Layout} from 'antd';
import NavBar from '../components/NavBar';
import {Switch} from 'dva/router';
import NoMatch from '../components/NoMatch';
import {renderRoutes,renderRedirect} from '../utils/routes';
const {Content} = Layout;
function IndexPage(props) {
  return (
    <Layout>
      <NavBar {...props}/>
      <Content>
        <Switch>
          {renderRoutes(props.routes,props.app)}
          {renderRedirect('/',true,props.routes)}
        </Switch>
      </Content>
    </Layout>
  );
}
export default connect() (IndexPage);
```

src/utils/routes.js

```
import {Route,Redirect} from 'dva/router';

function dynamic({app,models,component}){
  class Dynamic extends React.Component{
    state={Component: null}
    componentDidMount() {
      Promise.all(
        [
          Promise.all(models()),
          component()
        ]
      ).then(([models,Component])=>{
        models.map(item=>item.default).forEach(model=>app.model(model));
        this.setState({Component});
      });
    }
    render(){
      let Component = this.state.Component;
      return Component&&<Component {...this.props}/>
    }
  }
  return Dynamic;
}

export function renderRoutes(routesConfig,app){
  return routesConfig.map(({path,exact=false,component,routes=[],models=[]},index)=>(
    <Route
      path={path} exact={exact} key={index}
      component={dynamic({
        app,
        models: ()=>models,
        component: ()=>{
          return component().then(result=>{
            let Component = result.default || result;
            return props=><Component {...props} routes={routes}/>;
          })
        }
      })}
    />
  ))
}

export function renderRedirect(from,exact,routesConfig){
  let {path} = routesConfig.find(route=>route.redirect)||routesConfig[0];
  return <Redirect exact={exact} from={from} to={path}/>
}
```

src/models/home.js

```
export default {
  namespace: 'home',
  state: {
    title:'我是首页'
  }
}
```

8. 路由守卫

```

export function renderRoutes(routesConfig, app) {
+   return routesConfig.map((({path, exact=false, component, routes=[], models=[], authority}, index))=>{
      models,
      component: ()=>{
+         if(authority && !localStorage.getItem('login')){
+           return ()=>;
+         }
        return component().then(result=>{
          let Component = result.default || result;
          return props=>;
        })
      }
    })
  />
})
}

```

src/routesConfig.js

```

{
  path: '/profile',
  component: ()=>import('./routes/Profile'),
+  authority: true
},

```