04. 核心原理

一、核心技术和工具

- 核心: vue技术栈+webpack+babel+postcss开发和构建的,基于模块封装和异步组件加载的单页应用。
- 核心框架和工具:

框架和库	版本
vue.js	2.6.x
vue-router	3.0.x
vuex	3.x
webpack	4.x
babel	7.x
postcss	7.x

• 编译和打包目标: chrome >= 67

二、前端模块module的设计

• 通用模块module目录结构:

alarm

|— i18n (当前module的国际化i18n相关)

|—zh-CN.js

- pages (当前module路由对应的页面容器组件)

|—alarm.vue

— store (当前module的局部数据vuex store)

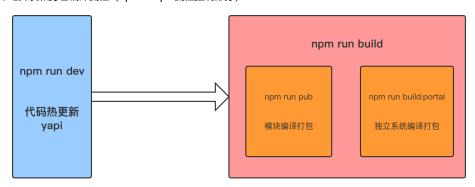
i— alarm.router.js (当前module的路由配置,如果有子路由,只需配置children子路由)

— alarm.service.js (当前module和服务端交互的api集合)

— export js(当前module的导出,作为webpack打包module的入口)

三、开发和编译打包流程

• 本地开发和打包编译流程 (npm scripts流程控制部分)



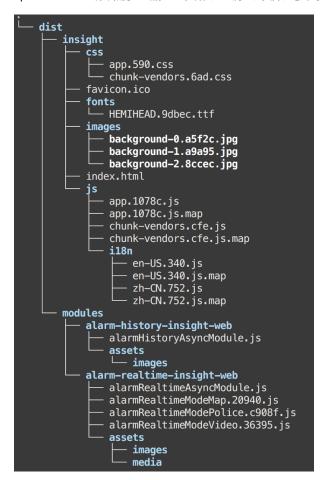
- 开发模式和环境:
 - npm run dev
 - 通用的基于webpack dev server默认机制,支持热更新等。
 - 通过require.context加载modules下的模块,保证开发和线上环境加载模块加载机制一致。
 - dev模式下的webpack loader cache配置: babel-loader、eslint-loader、vue-loader。
- 注:cache配置在个别环境下,可能会引起热更新或者机器内存溢出更问题。cache的配置正在完善中...
- 编译和打包模式:
 - 分为两种模式和步骤进行: npm run pub && npm run build:portal
 - npm run pub: 通过webpack多入口配置,打包modules下需要发布的module。
 - npm run build:portal: main.js为入口,打包本工程为独立单页应用。

四、打包和部署

- 编译和打包:
 - npm run build: npm run pub && npm run build:portal,编译和打包分为独立系统和当前工程下全部的模块:

```
|_ insight (独立系统)
      – js
      css
_modules (当前工程编译和打包后的模块)
      - alarm-insight-web
```

- npm run pub:按照modules目录下的模块,通过webpack的多入口配置,编译和打包模块,编译和打包后的模块还是按照模块独立目录 形式,目录名称规范: module alias-clientAppld(如: alarm-insight-web,来源于洞鉴系统的报警模块)。
 • npm run build:编译和打包当前独立系统,如:洞鉴、灵探、慧寻等,部署后可以作为独立系统使用。



- 部署:
 - 当前工程编译和打包后的独立系统,以系统名称作为根目录部署。

● 编译和打包后的模块,都以扁平层级的形式部署在服务器web根目录下。

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