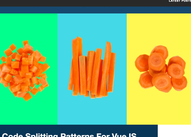

3 Code Splitting Patterns For VueJS and Webpack

BY ANTHONY GORE ON JULY 8, 2017 · 3 COMMENTS

Code splitting a single page app is a great way to improve its initial loading speed. Since a user doesn't have to download all the code in one hit, they'll be able to see and interact with the page sooner. This will improve UX, especially on mobile, and it's a win for SEO, as Google penalizes slow loading sites.

Last week I wrote about how to code split a VueJS app with Webpack. Long story short, anything you wrap in a single file component can easily be code split, as Webpack can create a split point when it imports a module, and Vue is happy to load a component asynchronously.

I believe the hardest part of code splitting is not getting it to work, but knowing where and when to do it. I'll go as far as to say that code splitting needs to be an architectural consideration when designing your app.

In this article I'll present three patterns for code splitting a VueJs single page app:

- *By page*
- *By page fold*
- *By condition*

1. By Page

Splitting your code by page is an obvious place to start. Take this simple app, which has three pages:

If we make sure each page is represented by its own single file component e.g. Home.vue, About.vue and Contact.vue, then we can use Webpack's dynamic import function to split each into a separate build file. Then, when the user visits a different page, Webpack will asynchronously load the requested page's file.

This is trivial to implement if you're using vue-router, as your pages will already need to be in separate components.

routes.js

```
const Home = () => import('./views/Home.vue')
const About = () => import('./views/About.vue')
const Contact = () => import('./views/Contact.vue')

const routes = [
  { path: '/', name: 'home', component: Home },
  { path: '/about', name: 'about', component: About },
  { path: '/contact', name: 'contact', component: Contact }
]
```

Take a look at stats generated when we build this code. Each page is in its own file, but also note there's a main bundle file called build_main.js, which contains any common code as well as the logic for asynchronously loading the other files. It will need to be loaded no matter what route the user visits.

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Another >5KB so don't have to load up front.

Conclusion

Those are three ideas for architecting an app for code splitting. I'm sure there are other ways to do it if you use your imagination!

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TAGS: VUE.JS WEBPACK COMPONENTS ROUTER

— ABOUT ANTHONY GORE

Anthony is a web developer and online course instructor with a passion for Javascript. He currently resides in Chiang Rai, Thailand.

@ANTHGOREDEV

PREVIOUS
Code Splitting With Vue.js And Webpack
JULY 3, 2017

— COMMENTS

Dinesh Ramesh Kumarasamy, de on Disqus
Bellow, sorry.

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