

Before committing to a micro-frontend architecture, consider the following:

• Do you have the necessary infrastructure to share code across your apps? One way to achieve this while staying DRY is to publish shared code as npm packages in an npm

registry internal to your organization. Another option - you could use a monorepo.

- Do you have a component library? Your applications will likely need to look and feel
 the same. A design system makes this much easier, if your organization does not have
 one of it's own consider using Google's material or creating a shared component
 library with something like Storybook.
- Do you have a mature CI/CD pipeline? Micro-frontends can make releases faster and less risky, and give dev teams full autonomy of the SDLC of smaller sections of a large application. However, each micro-app needs to be built and deployed independently, so make sure the overhead of setting up new CI/CD pipelines for each app is taken into account.

Disclaimer

The authors of single-spa generally discourage a parent-child application setup like this because it could lead to tighter coupling between the parent and child applications if you're not careful, and also because it does extra work to manage application life-cycles that single-spa already does for you.

The key difference is that the container app in this repository manages the lifecycles of the single-spa-angular micro-apps manually *using Angular's router* (by making use of single-spa "parcels"), rather than letting single-spa control the application life-cycles and routing (by registering the single-spa-angular micro-apps as single-spa "applications").

Reasons you may prefer the approach implemented here:

- You're an all-Angular shop and want to keep everything within the Angular CLI
 platform (maybe to reduce the mental overhead for your developers). This approach
 encapsulates single-spa calls into an Angular service, making single-spa more of an
 implementation detail.
- You are incrementally adding or experimenting with micro-frontends in a large Angular application, and are not necessarily ready to run everything with single-spa.
- You are migrating an existing Angular application to a micro-frontend whose app-toapp hand-off is complex and simply needs more control than single-spa's activity function provides.

Other resources

This example was originally created as part of this presentation: youtube link

Here are the associated slides: slides