Micro Frontends

How to evolve to an extensible frontend

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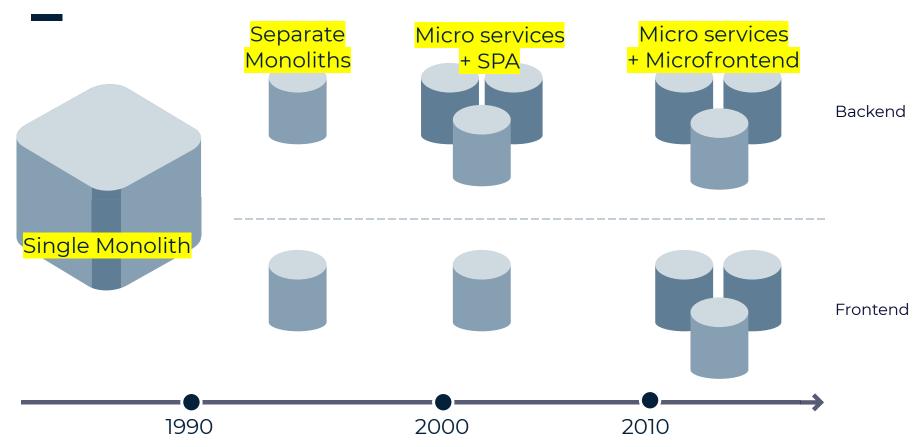
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The Problem

You have this complex software that is developed by a huge team and it's a mess to maintain. To make it even worse, you have additional requirements like high availability and short delivery times.

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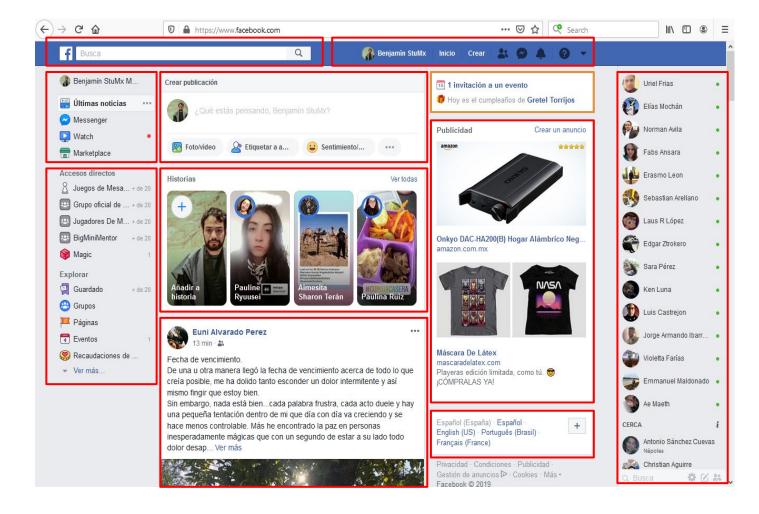
A brief history of web apps architecture



What is micro frontend architecture?

It is an approach to develop web applications as a composition of small frontend apps representing a business subdomain.

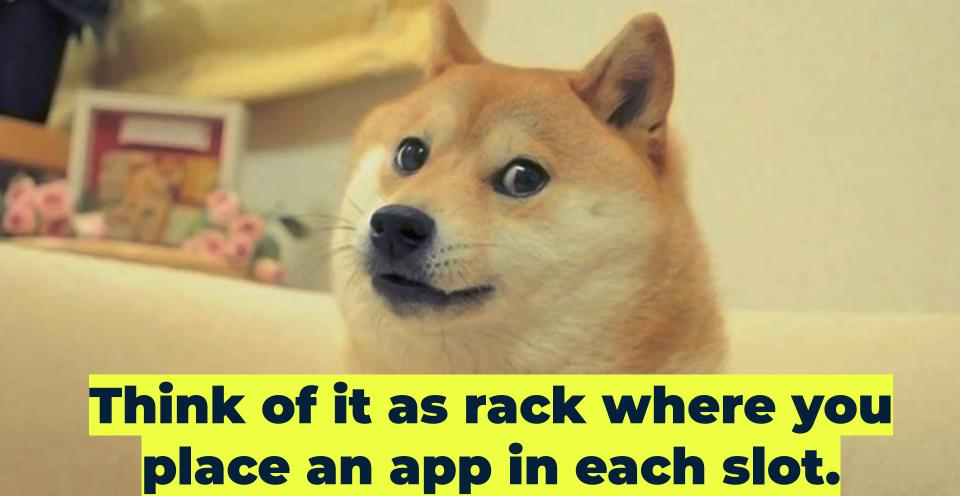
How do they look to the user?



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How do they look like to the browser?





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Challenges

Web page composition

We want it to feel as a single application Visual consistency

We still want our users to feel as if they are interacting with a single application **Share data**

Even if they are highly independent, they still need to talk to each other.

Testing strategy

Enfasis on integration tests







Design Guild



NgRx





Redux







Trade offs



→ Organizational Flexibility





- → Increased complexity
- → Increased bundle sizes and data transfer
- → Accessibility issues

When should I use them



One person

Useful in this range



Group



Simple HTML

Useful in this range



Image editor



https://github.com/StuMx/microfrontends-talk

Thanks

