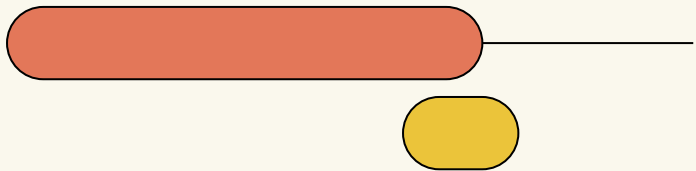




Microfrontends at Fastly

Shipping User Experience, Not the Org Chart



Bekah Suttner Cheek (she/her)



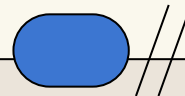


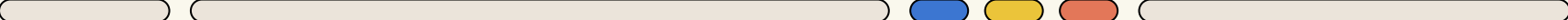
Hi ATO! I'm Bekah 🖐️

Senior Software Engineer

Fastly
UX Platform

bekah.io

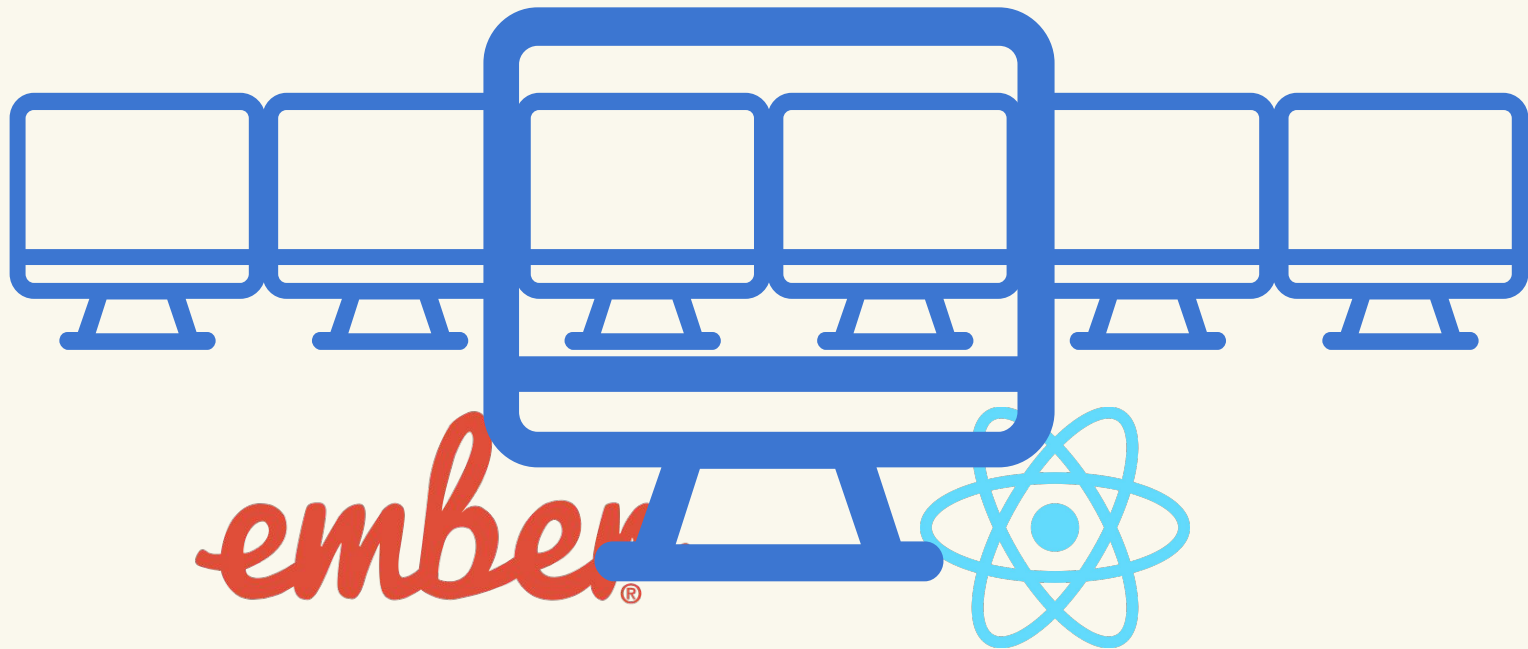


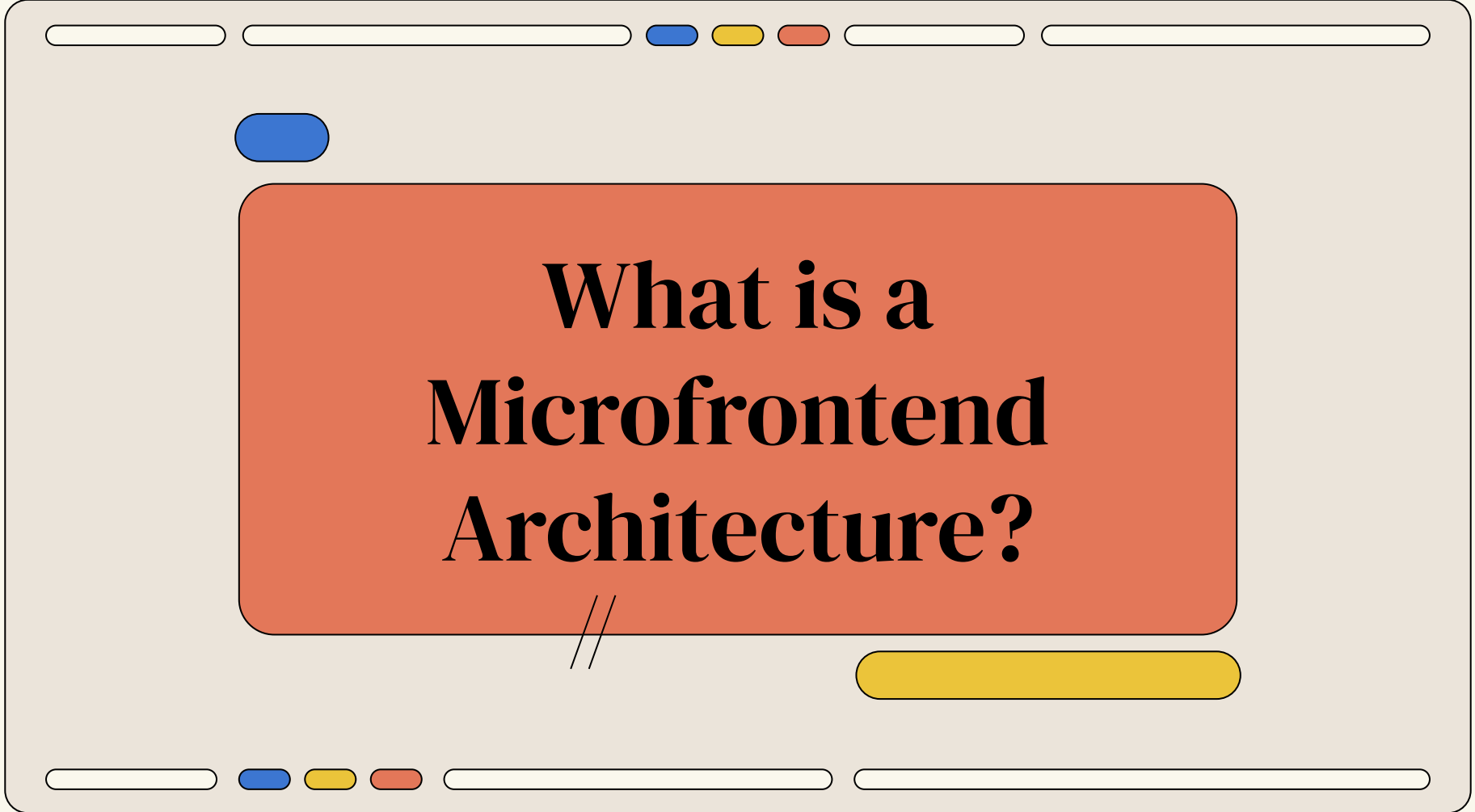


fastly®



Where We Were



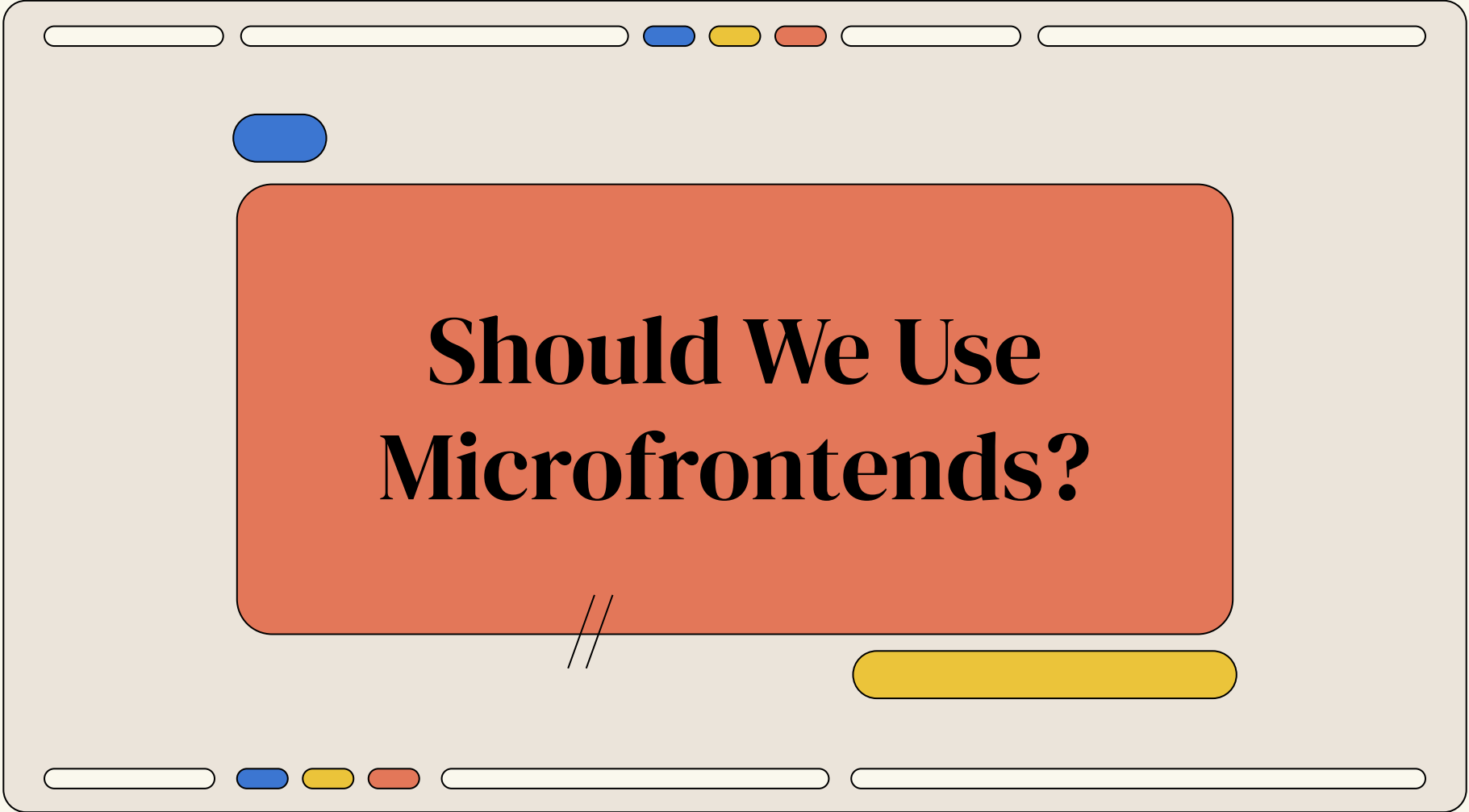


What is a Microfrontend Architecture?

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Growing a Frontend

Monolith	Conglomerate	Microfrontend
Centralized builds	Decentralized builds	Decentralized builds
Monolith deployment	Independent deployments	Independent deployments
Static composition	Page swapping	Dynamic composition



Should We Use Microfrontends?



Outgrowing a Monolith

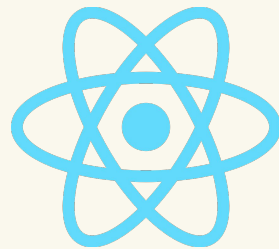
The Good

- User experience is smooth
- Page changes are cohesive
- Team boundaries are invisible

The Bad

- Teams lack autonomy
- Merges are painful
- Velocity is slow

Outgrowing a Monolith

The logo for Ember.js, featuring the word "ember" in a red, lowercase, cursive script font with a registered trademark symbol.



Microfrontend over Conglomerate

1. Prolonged migration
2. Supporting multiple frameworks indefinitely
3. Clean user experience





The Overgrown Conglomerate

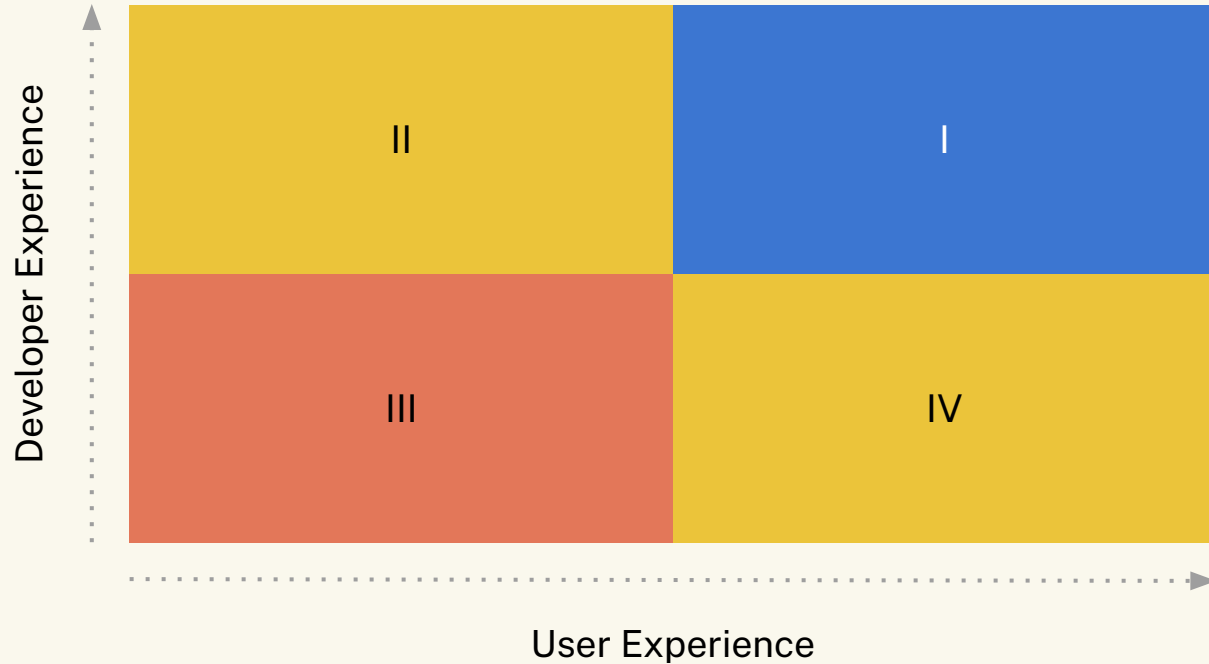
The Good

- Teams choose tooling
- Teams merge independently
- Teams deploy independently
- Teams ship quickly

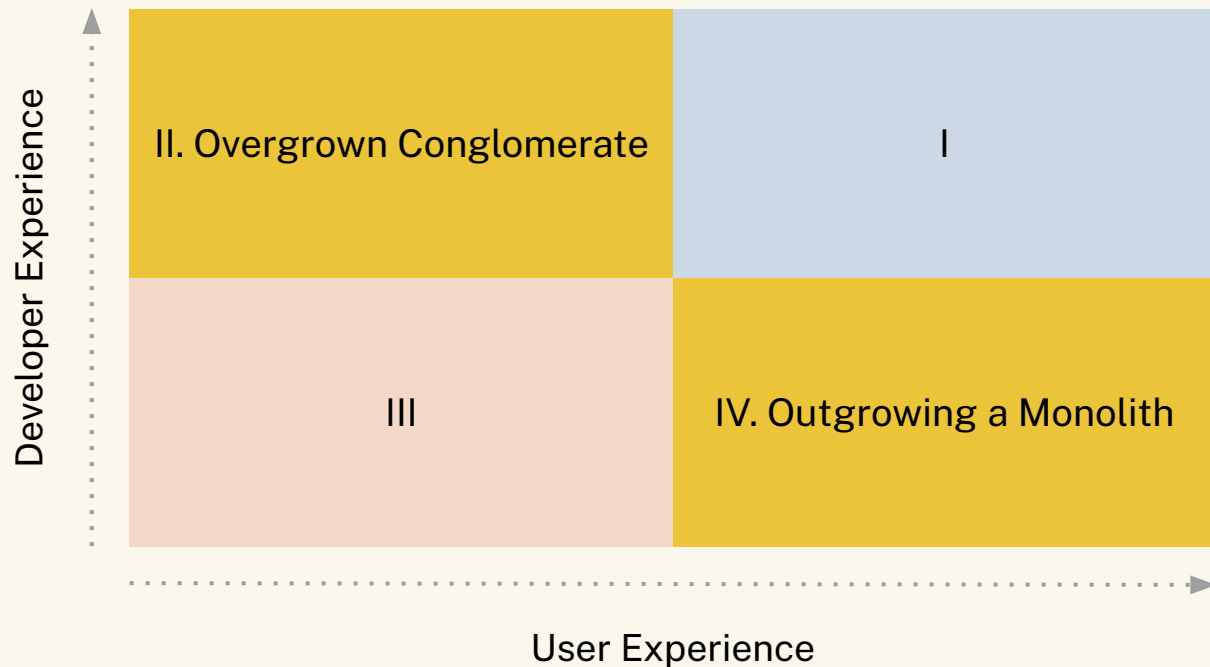
The Bad

- User experience differs by team
- The frontend feels jumpy
- Boundaries between teams are visible

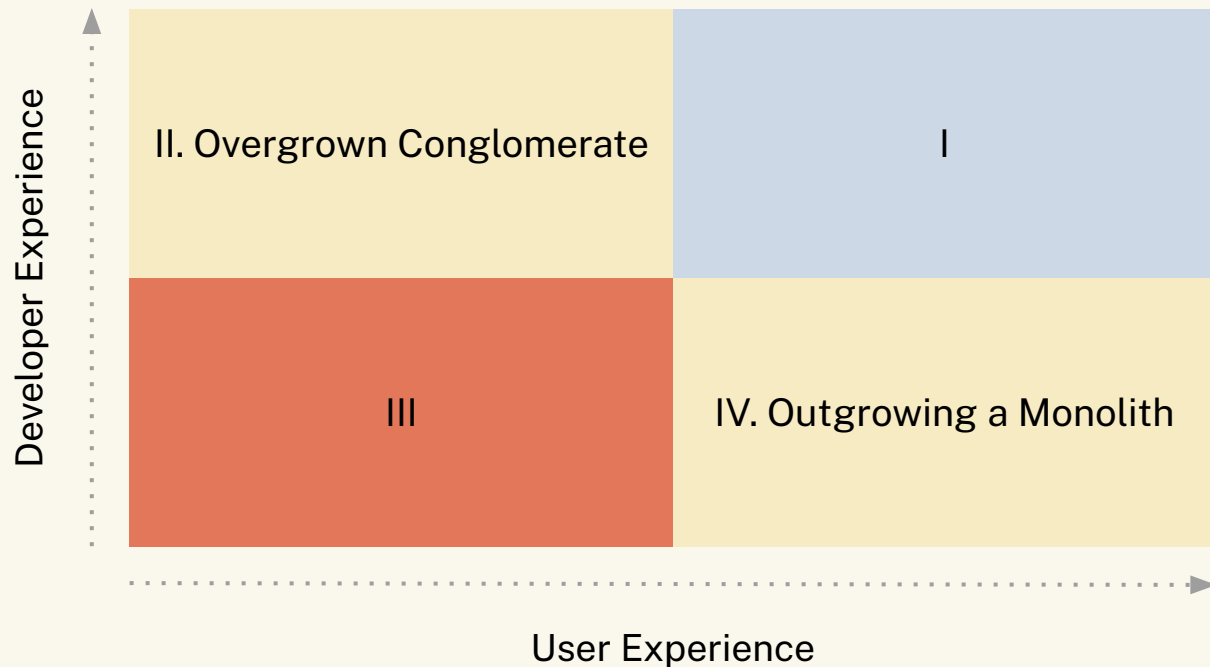
To Microfrontend or Not to Microfrontend?



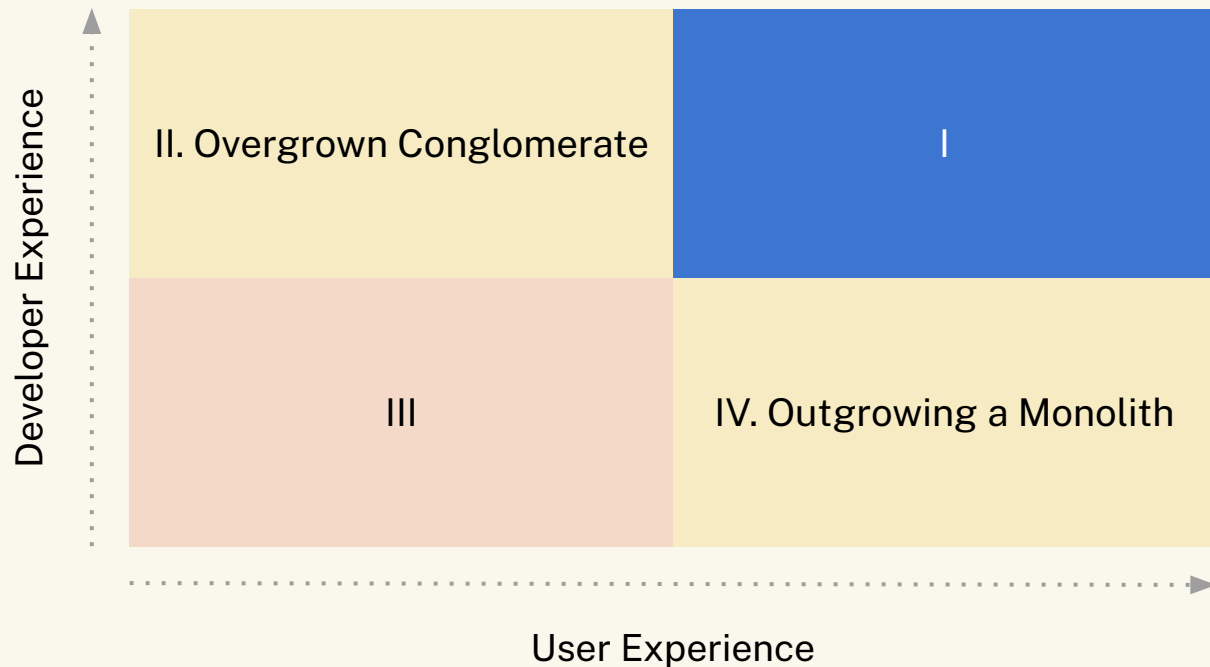
To Microfrontend or Not to Microfrontend?

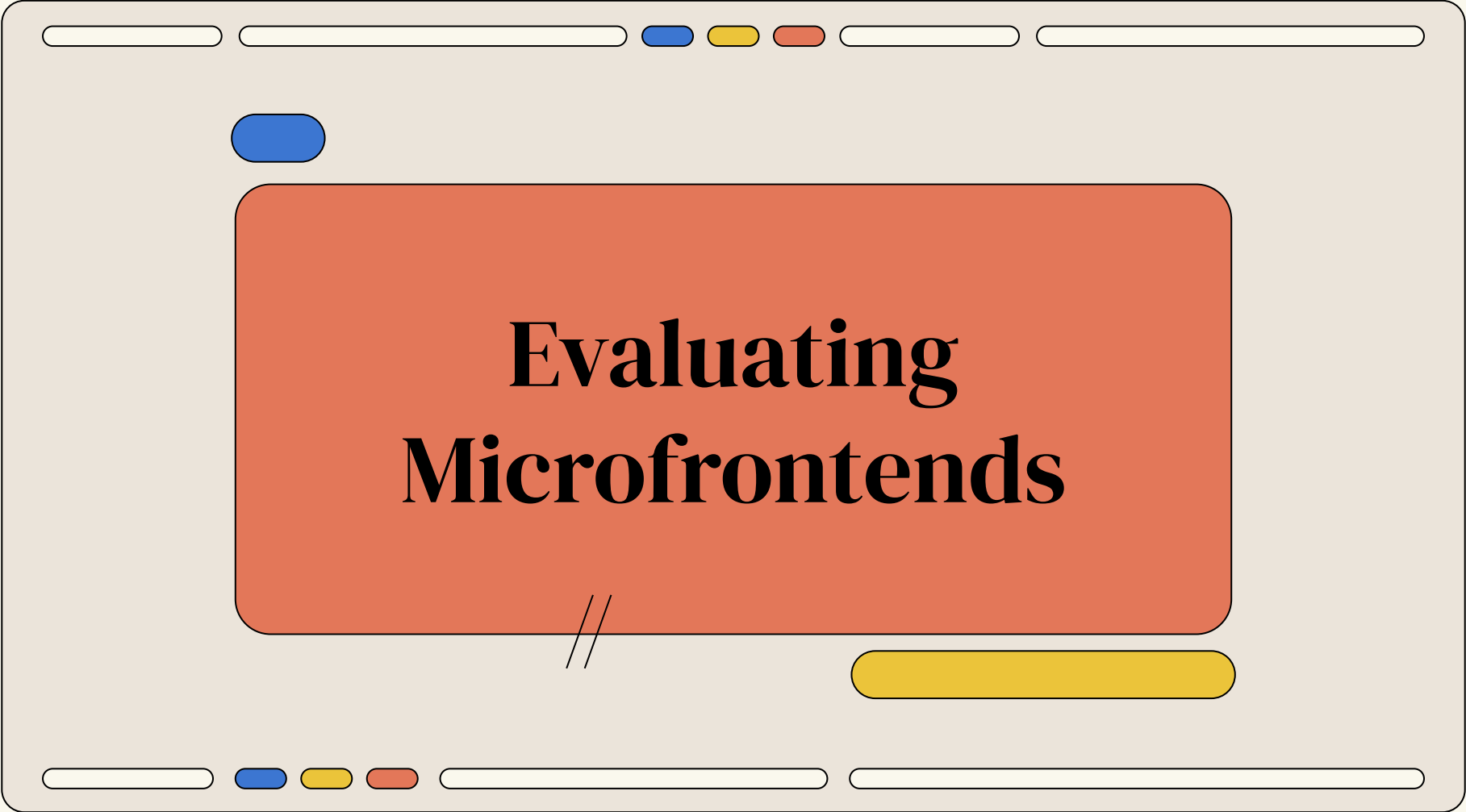


To Microfrontend or Not to Microfrontend?



To Microfrontend or Not to Microfrontend?





Evaluating Microfrontends



So You Want To Use a Microfrontend

- ❑ Define high quality user experience
- ❑ Define high quality developer experience
- ❑ Define micro
- ❑ Evaluate maintainability
- ❑ Evaluate scalability
- ❑ Confirm framework support
- ❑ Establish a design system

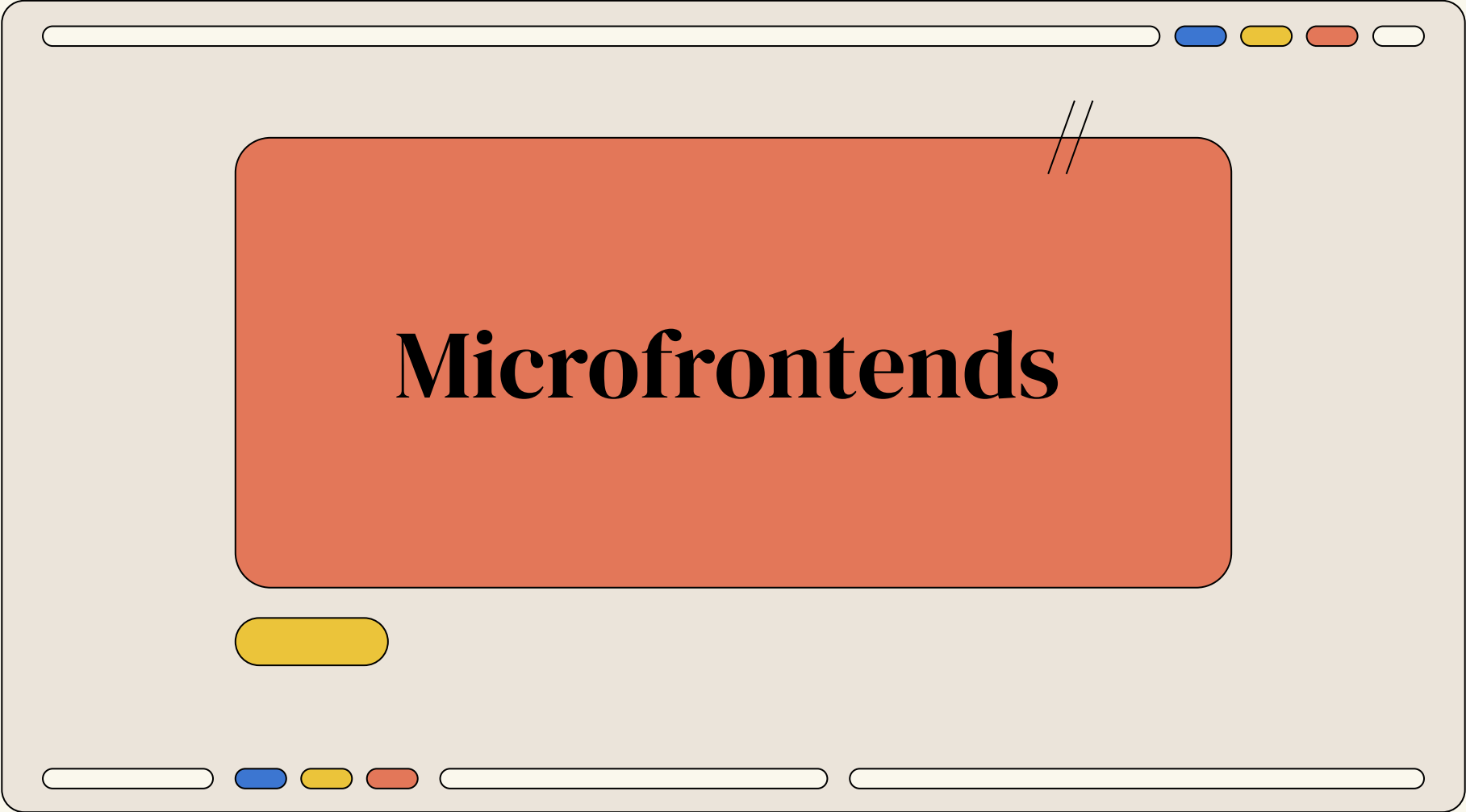


Want the Details?

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Microfrontends

Thank you!

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