



Asia's Largest

AI & Cloud

Conference 2024

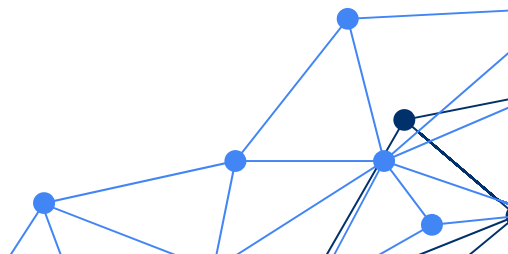
15 - 16, November 2024

Chennai Trade Center, Chennai





Micro Frontends Breaking Monoliths





It's me

Bipul Kumar

Principal Engineer @ Intuit

About Me

I am a software architect with over 22 years of experience in the tech industry, dedicated to building complex software applications from the ground up, with a strong focus on full-stack development, big data and AI. I am currently working as a Principal Engineer at Intuit, leading TurboTax and Professional Tax product development. I am passionate about exploring the latest industry trends and sharing my knowledge in various technical forums.



It's me

Neetu SN

Engineering Manager @ Saviynt

About Me

I am an Engineering Manager with over 16 years of experience in the tech industry. Expertise in managing the full spectrum of UI design and development, from conceptualization to optimization. Skilled in leveraging emerging technologies and industry best practices to deliver cutting-edge solutions that exceed project objectives. One of my key strengths is building collaborative environments that empower teams to perform at their best. I take pride in mentoring talent and fostering a culture of growth and learning, which has consistently led to exceptional results.

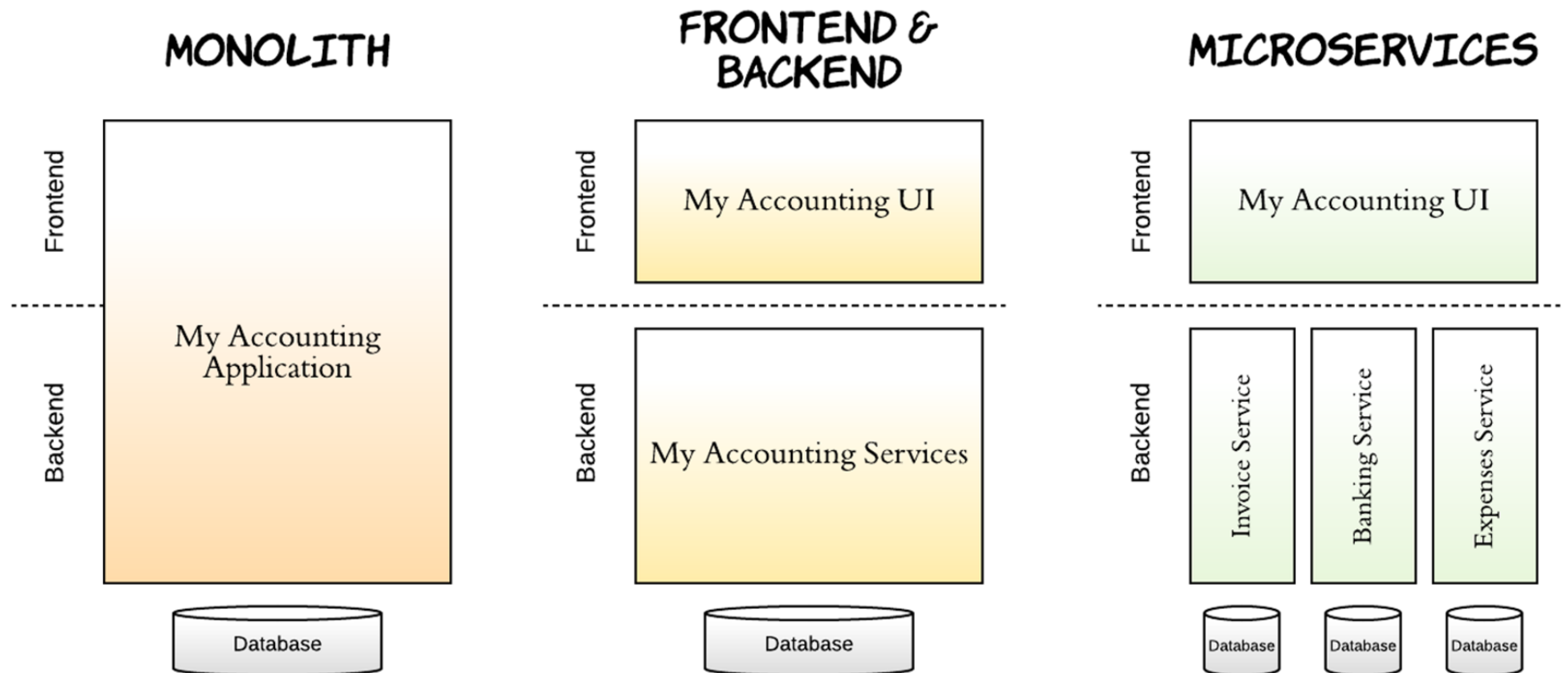
What are Micro Frontends?





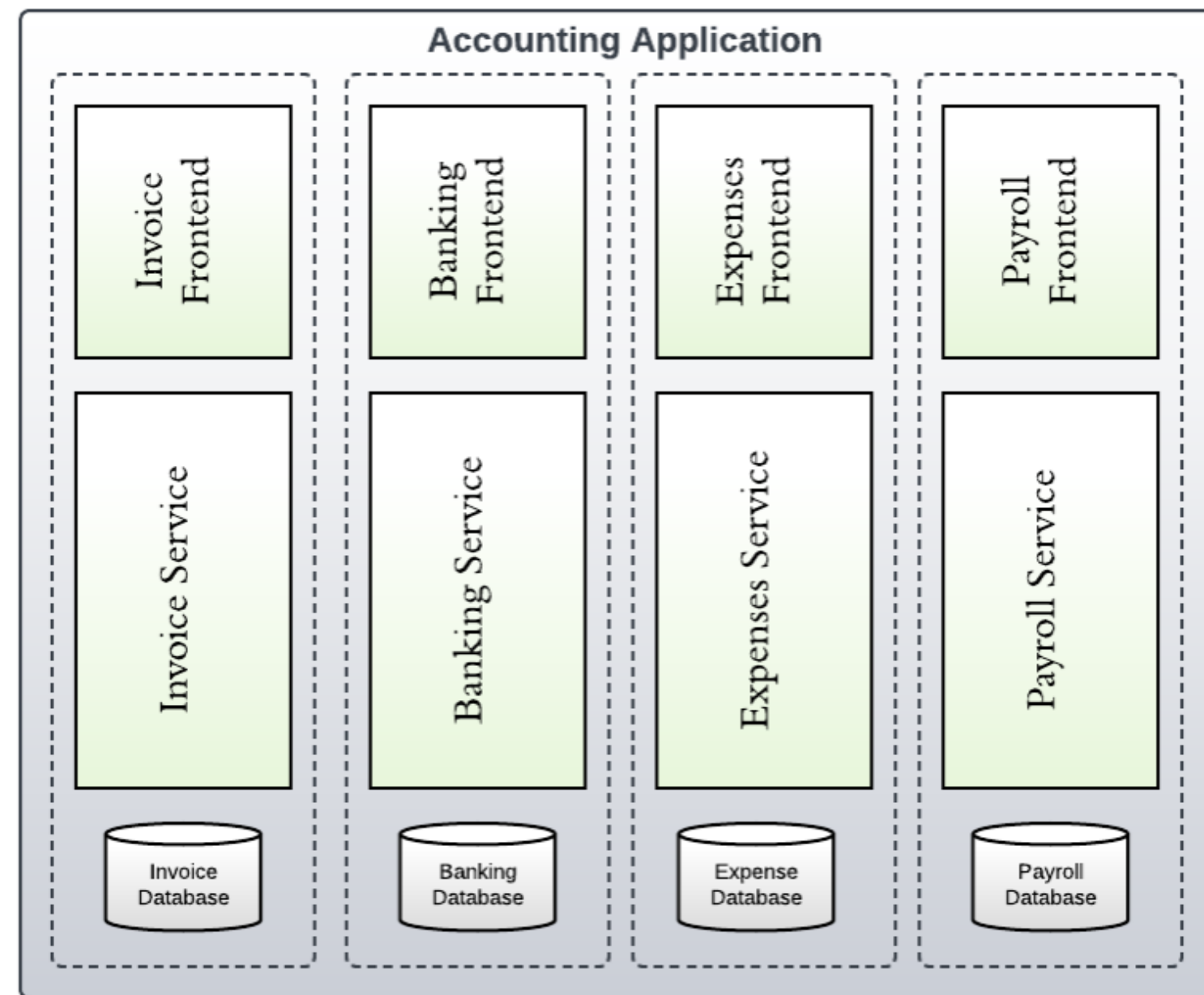
“It’s an architecture pattern that breaks down the user interface of a web application into smaller, independently deployable units.”

Architecture

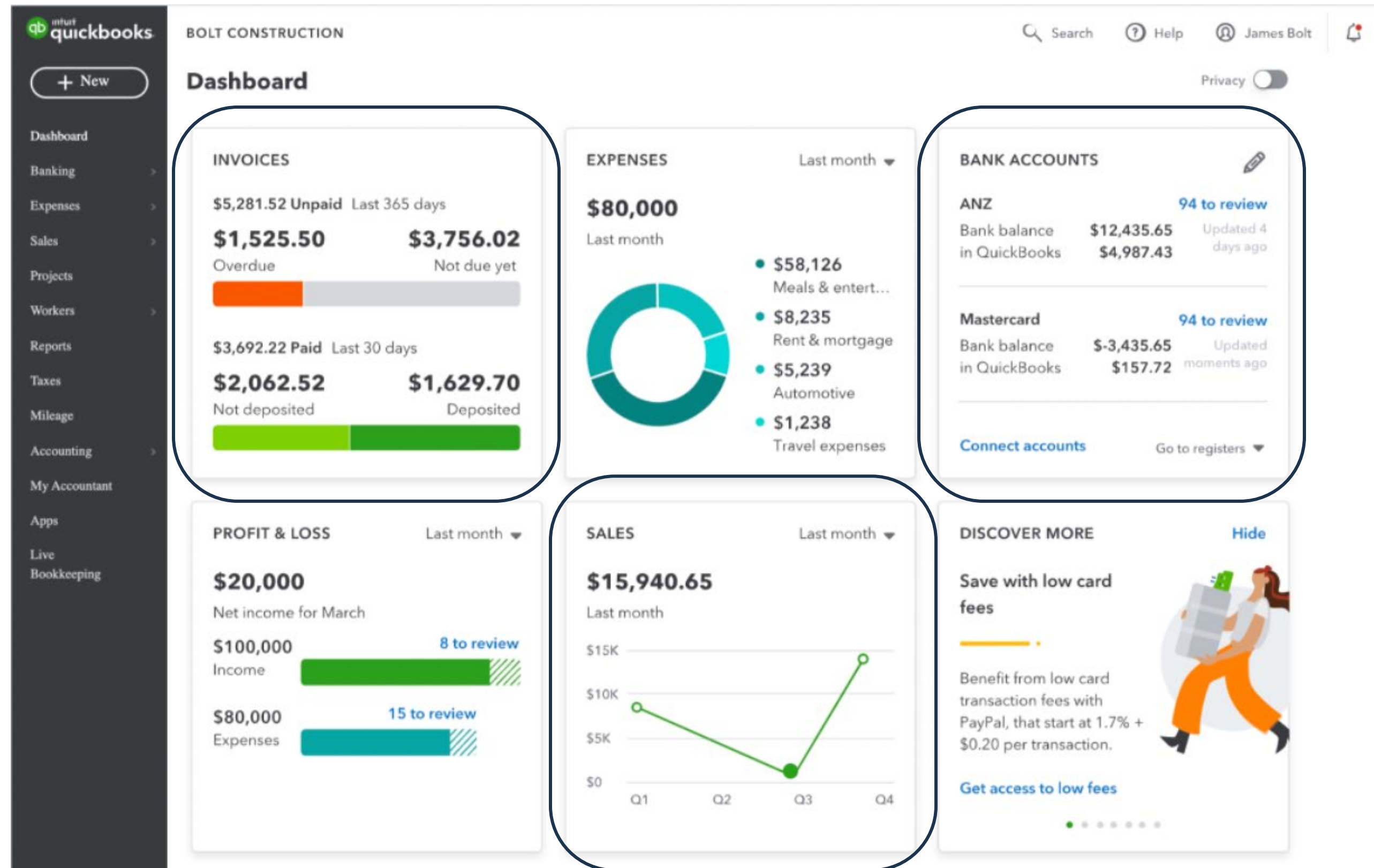


Architecture (Contd.)

MICRO APPS (MICRO FRONTENDS & MICRO SERVICES)



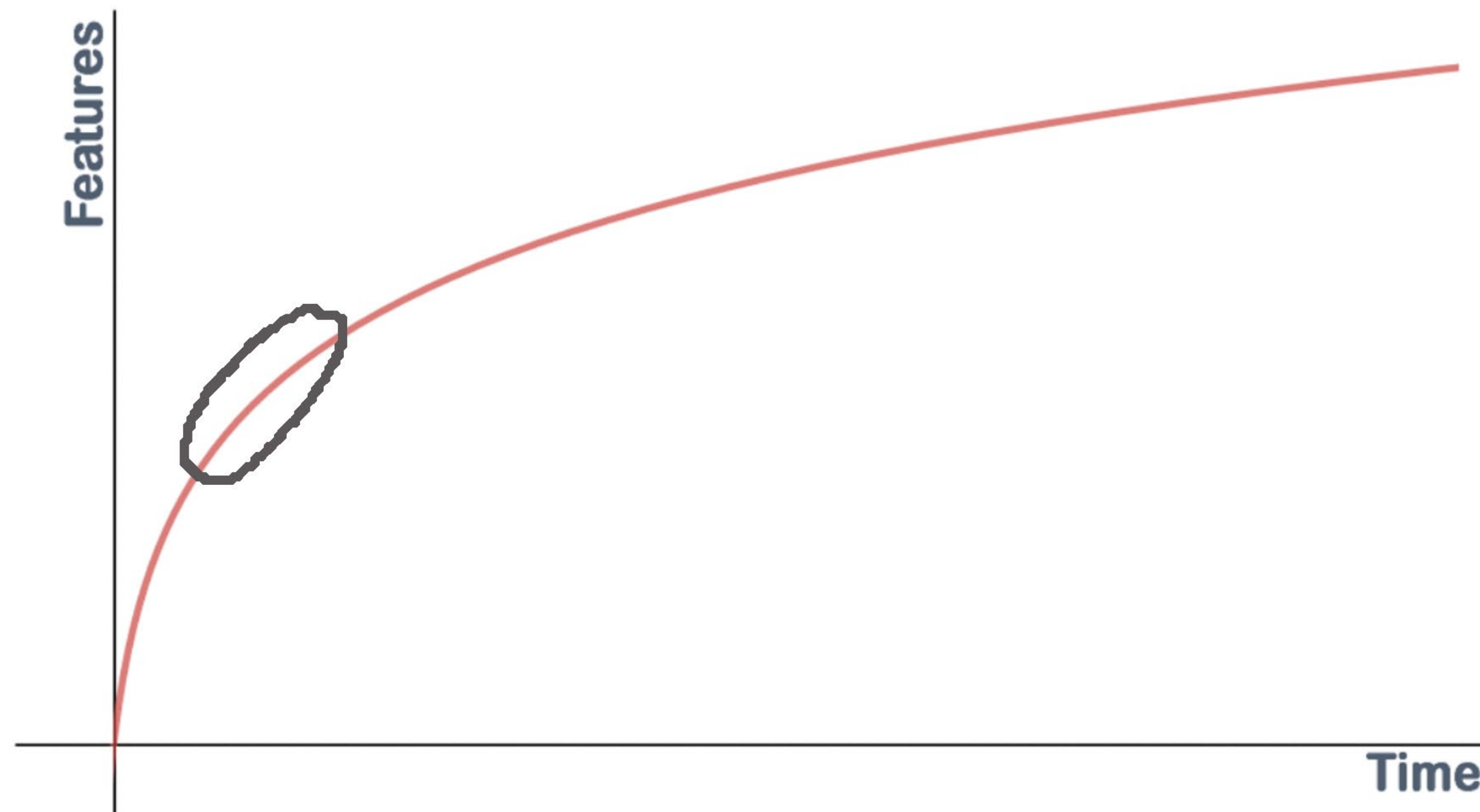
Micro Frontends in Action



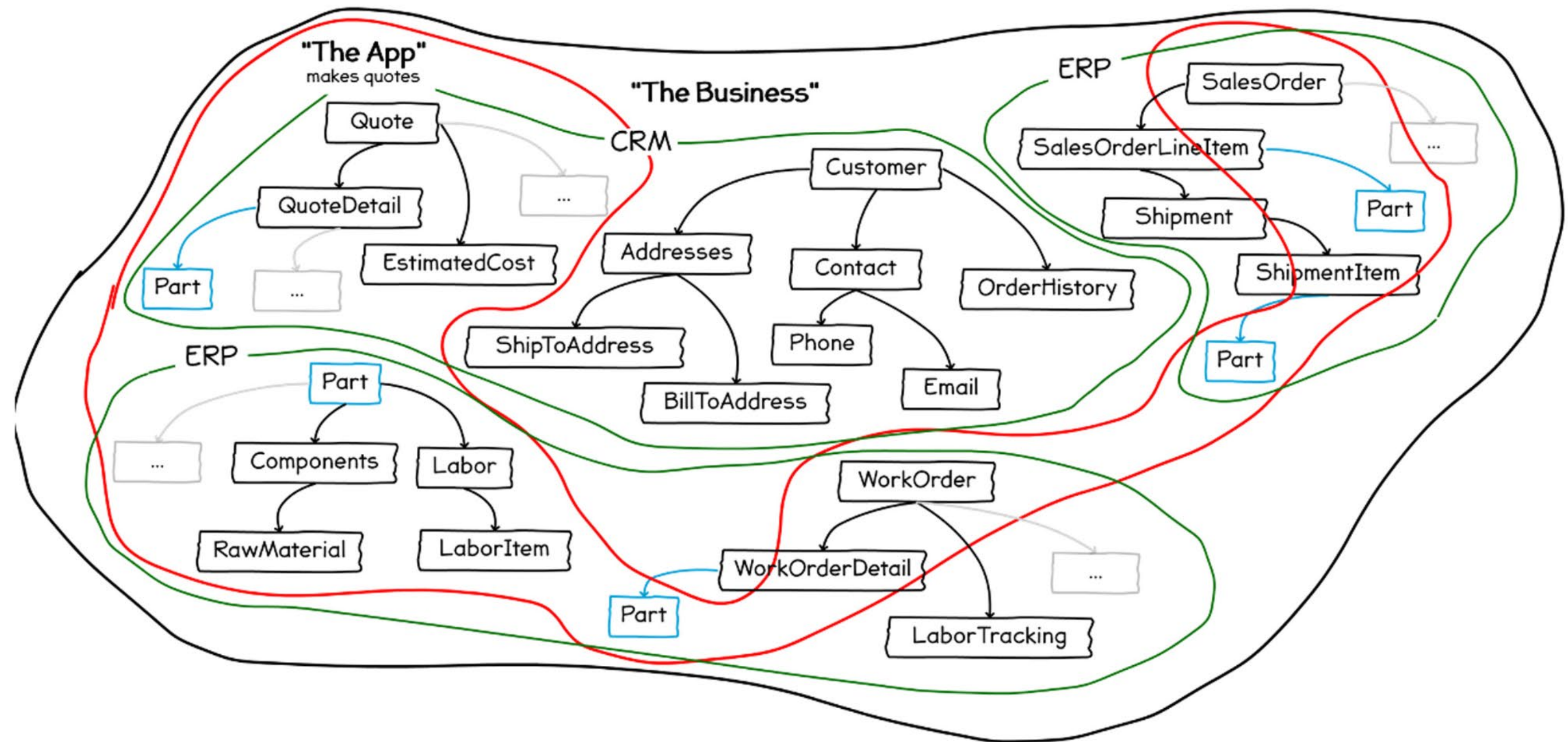
Why Micro Frontends?



Features vs Time

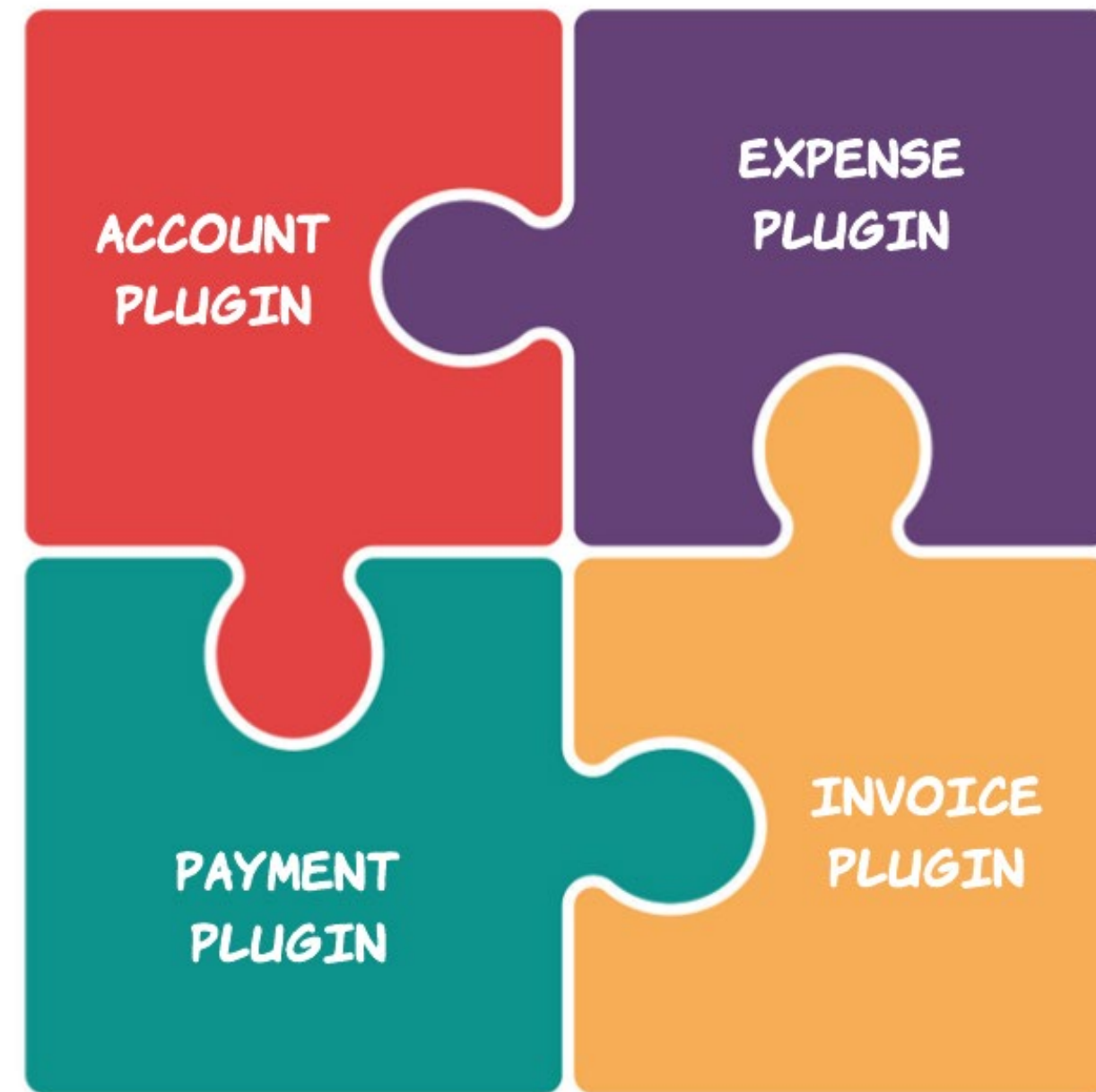


Big Ball of Mud



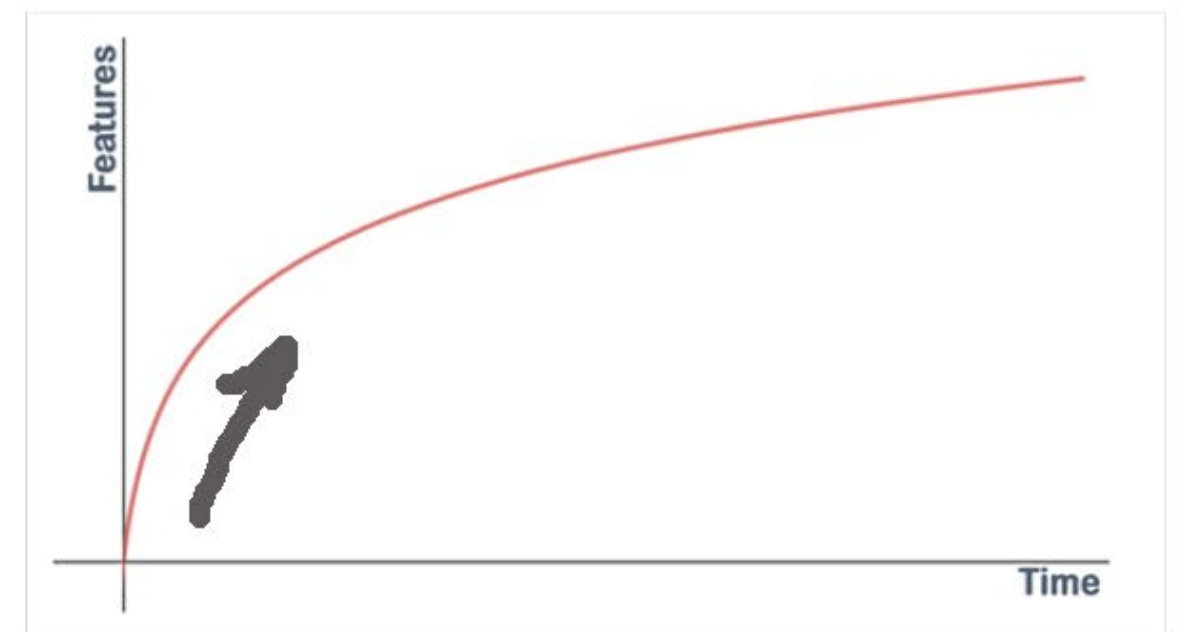
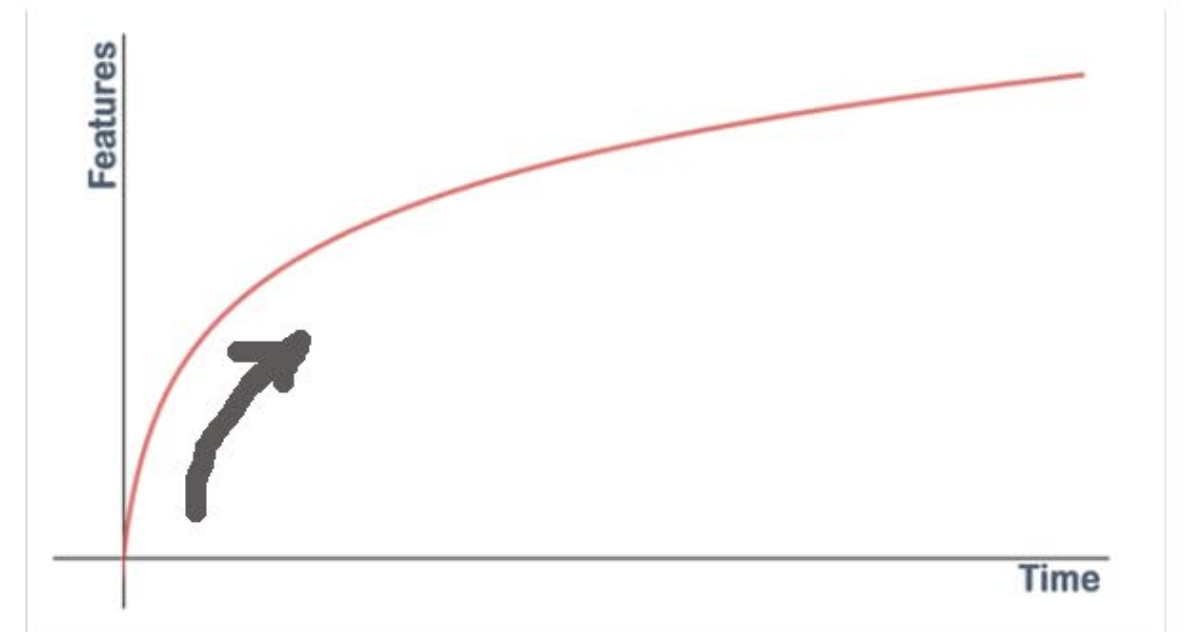
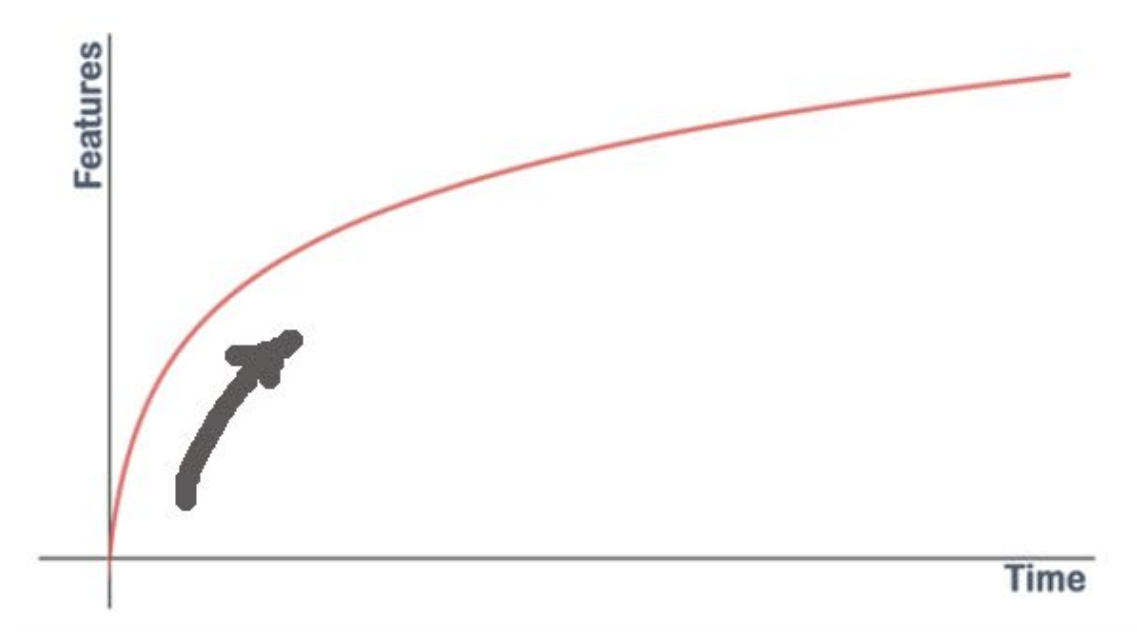


Modularize





Gains



All Benefits



Release
Velocity



Independent
Teams



Functionality
Reuse



Scalability



Resiliency



Polyglot

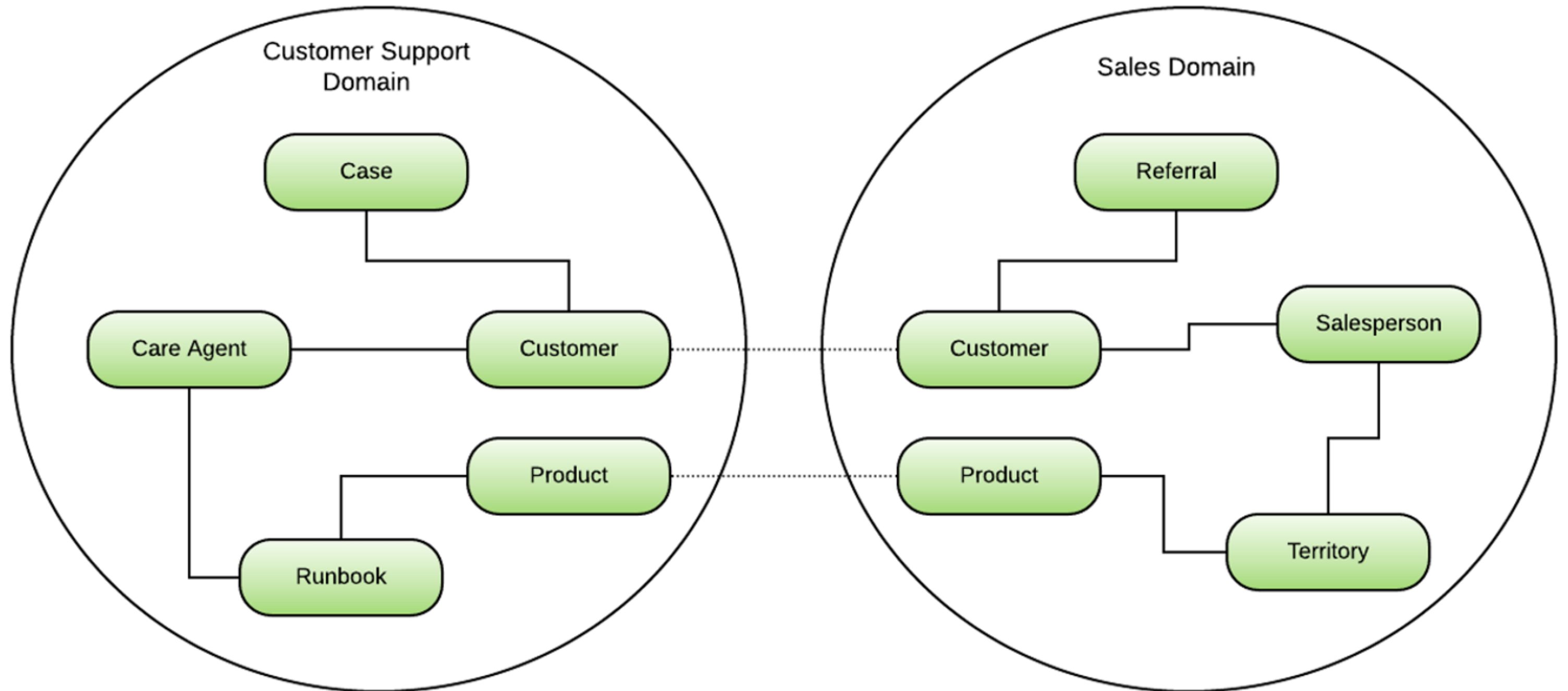
How to build Micro Frontends?



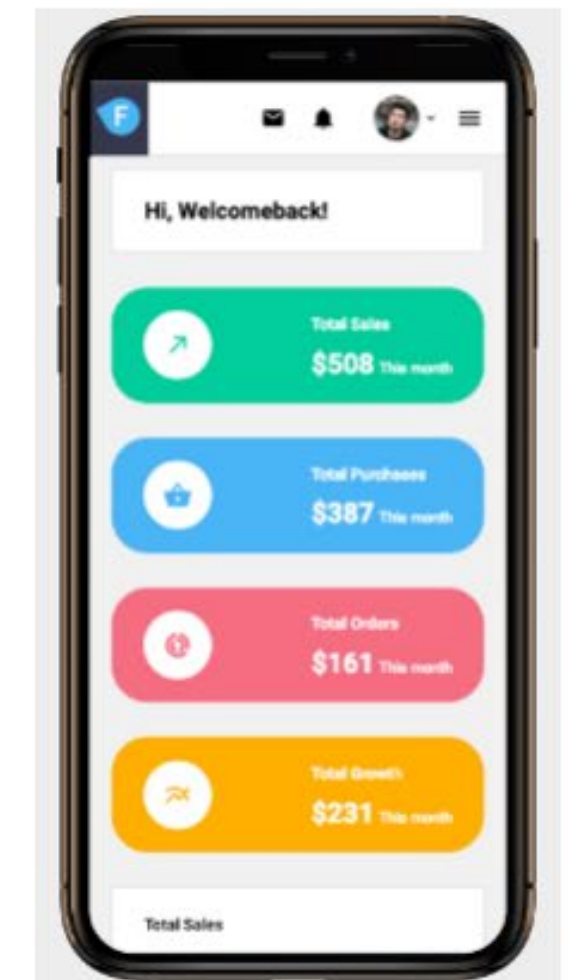
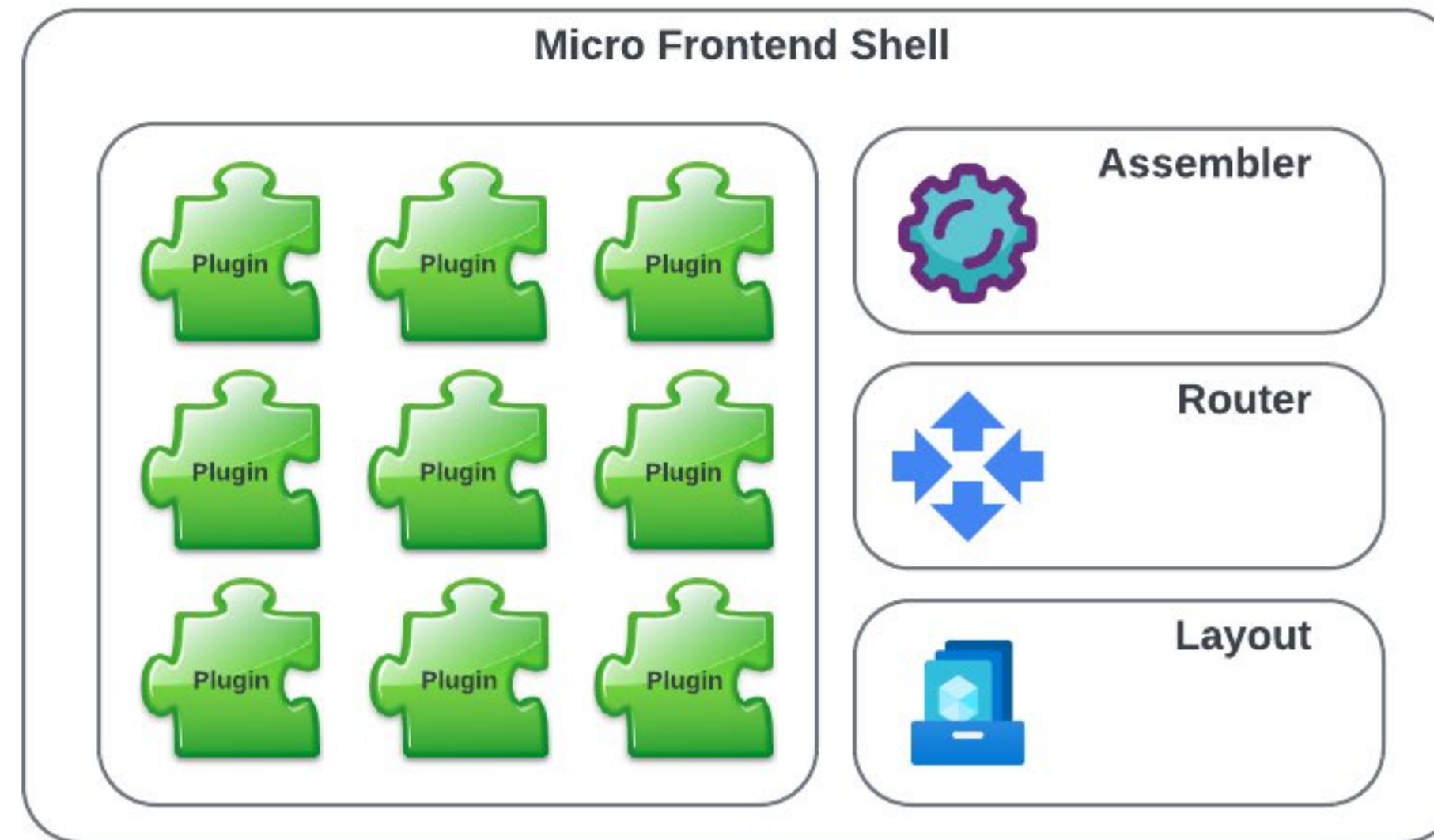


- Build time integration
- Server-side integration
- Run-time integration
 - `<iframe>`
 - **JavaScript**
 - **Web Components**

Domain Driven Design



Architecture





Design System

Primer Design System

BrandAbout

Search Primer

Rails

React

Component lifecycle

Component status

Accessibility

Contribute

Foundations

Color

Primitives

Getting started

Token names

Color

Size

Typography

Migrating

Responsive

CSS utilities

Layout

Typography

Icons and visuals

Content

UI patterns

Data visualization

Foundations / Primitives / Color

Color

An overview of all available color CSS variables

Foundational

Foreground

Theme: Light

View in Storybook

Sample	Token	Output value
Aa	--fgColor-default	#1f2328
Aa	--fgColor-muted	#59636e
Aa	--fgColor-onEmphasis	ffffff
	--fgColor-onInverse	ffffff
Aa	--fgColor-white	ffffff
Aa	--fgColor-black	#1f2328
Aa	--fgColor-disabled	#818b98
Aa	--fgColor-link	#0969da

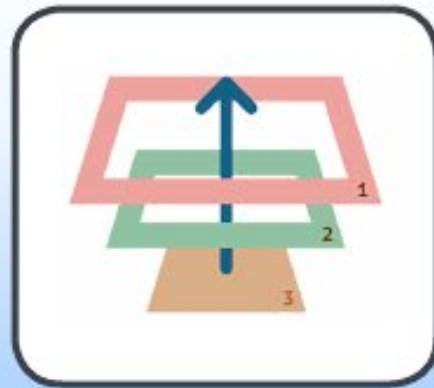
On this page

Foundational

Pattern

https://primer.style/foundations/primitives/color

Data Sharing



Custom Events

Use DOM event propagation mechanism



Backend

Share data via backend microservices that could store information in a database.

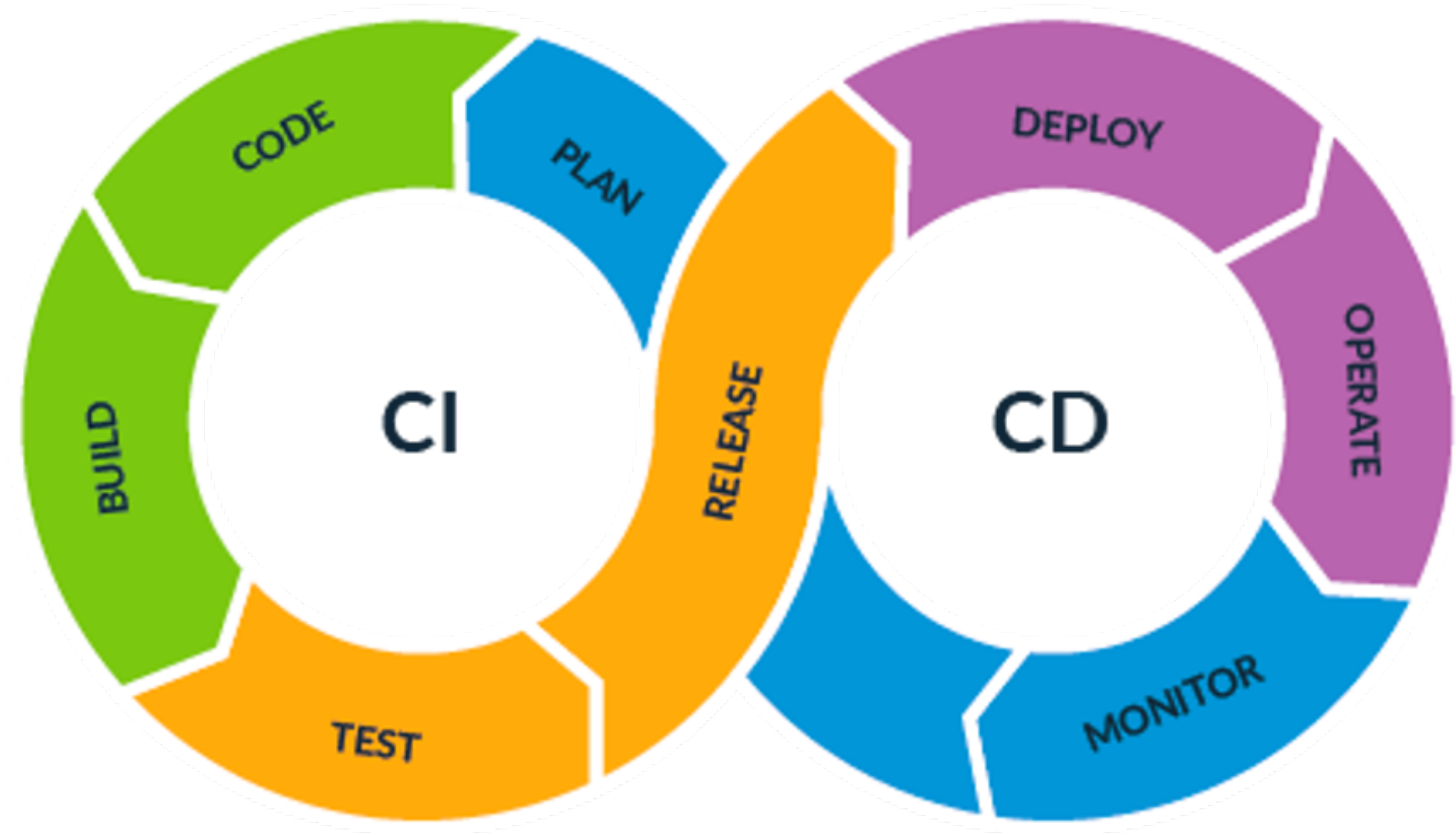


Browser Storage

Application, Session, Cookie, Redux etc



CICD





Frameworks

- Single SPA
- OpenComponents
- Bit
- Piral
- Luigi
- Qiankun

Demo





THANK YOU!

