

SERVICELESS MICROSERVICES:



WITHOUT CONTAINERS

Cincy Deliver 2021 Sponsors

Diamond



Platinum



Gold



Code Kentucky – Launching Fall 2021!

Code Kentucky is a brand new program for residents of northern and eastern Kentucky ages 18+ that will prepare them for a quality career in the tech field.

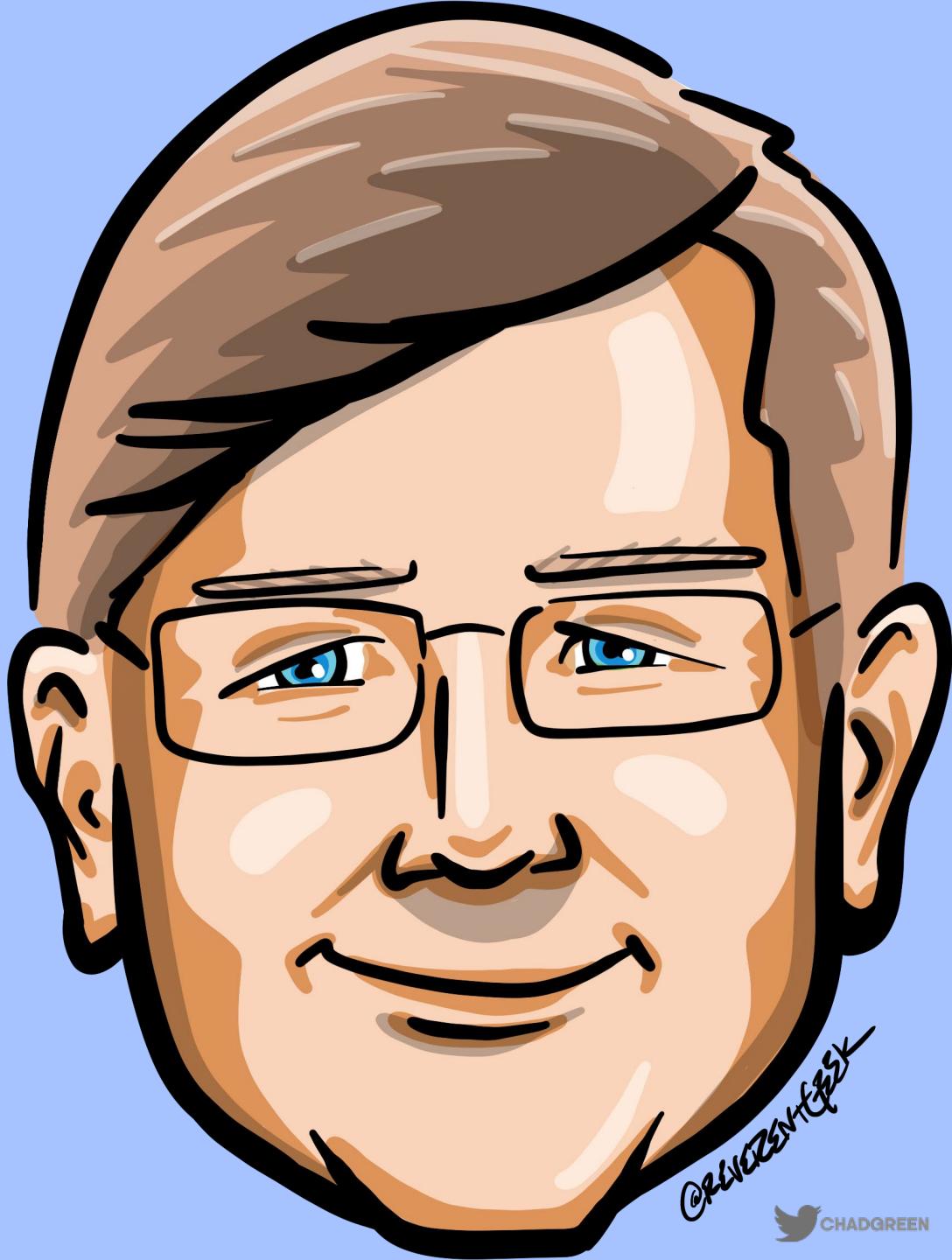
Visit codekentucky.org for more info.

Interested in hiring future program grads and/or volunteering as a mentor for the program?
Contact us at info@codekentucky.org!

<code>
KENTUCKY

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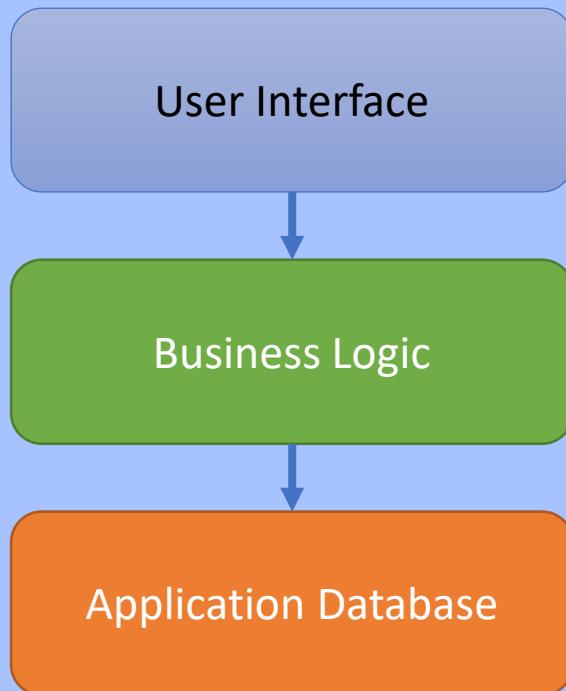




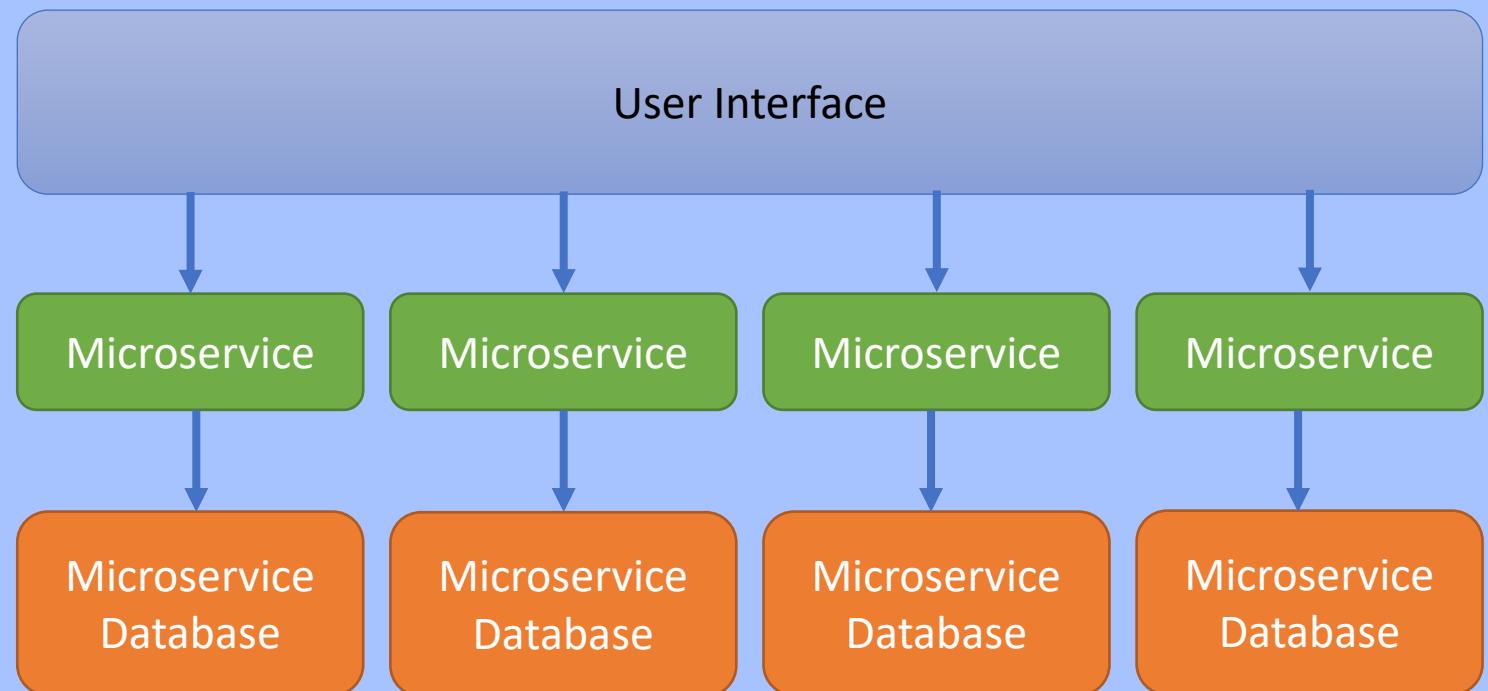
What are
Microservices?

What are microservices?

Monolithic Architecture

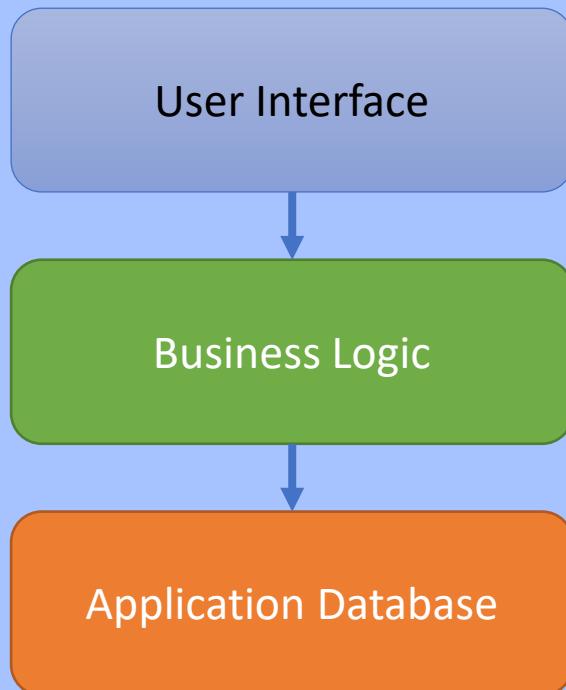


Microservices Architecture

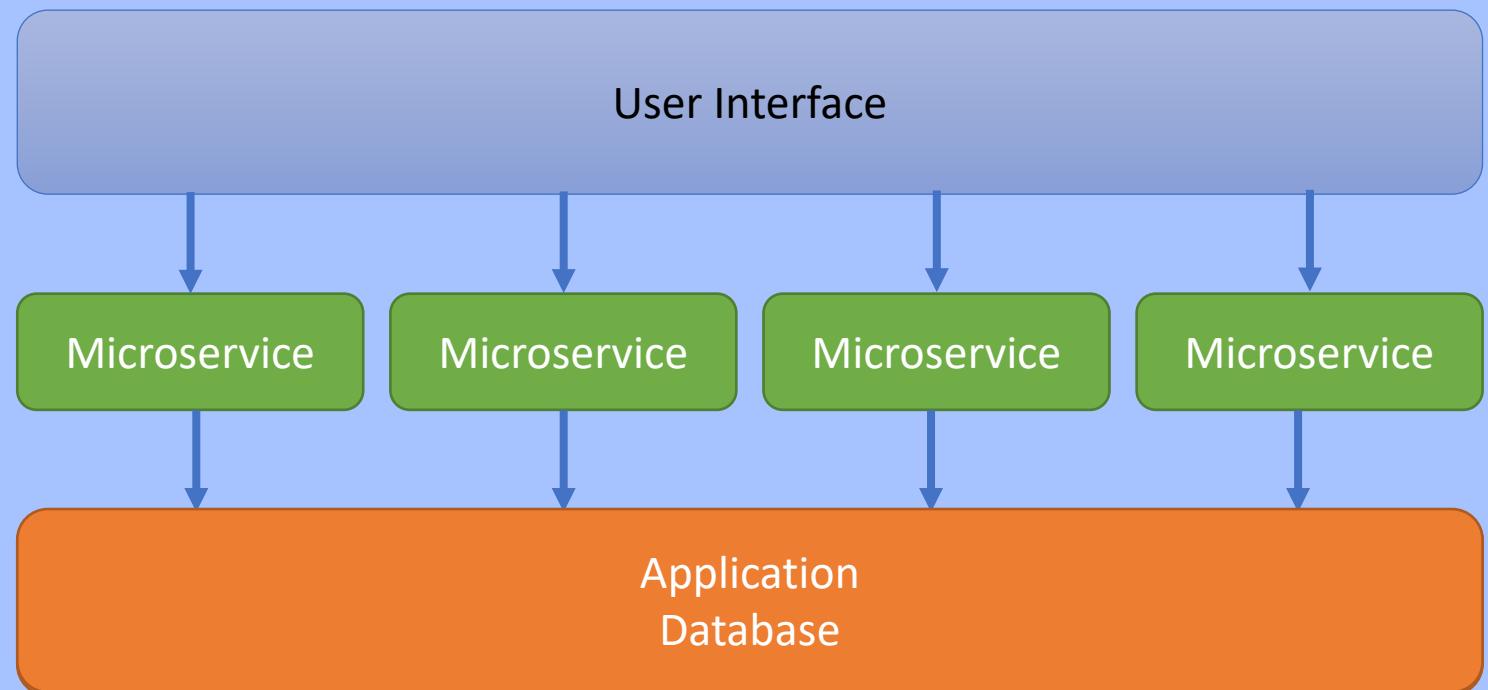


What are microservices?

Monolithic Architecture



Microservices Architecture



Advantages of Microservices

Quick

Advantages of Microservices

Quick

Advantages of Microservices

Quick

Resilience

Advantages of Microservices

Quick

Resilience

Advantages of Microservices

Quick

Resilience

Scalability

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Disadvantages of Microservices

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Flexibility



What are Containers?

What are Containers?

Neat Little Packages

What are Containers?

Neat Little Packages

Consistent

What are Containers?

Neat Little Packages

Consistent

Easily Moved

What are Containers?

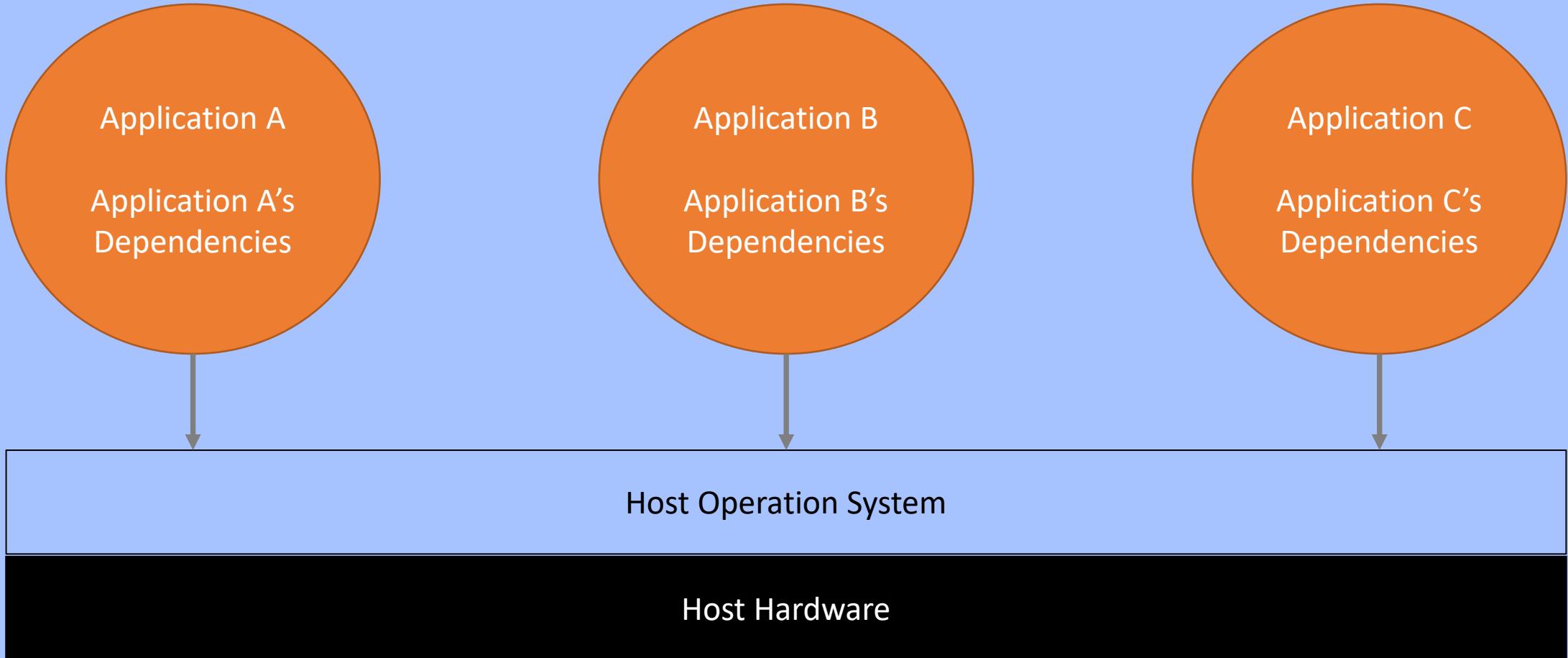
Neat Little Packages

Consistent

Easily Moved

Deployed When Needed

What are containers





What is Serverless?

Not there isn't servers

Just, you can think about the servers less

~~Server Configuration~~

~~Server Scaling~~

Advantages of Serverless

No Server
Management

Advantages of Serverless

No Server
Management

Advantages of Serverless

No Server
Management

Simplified
Scalability

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Lower Costs

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Turnaround

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Simplified Scalability

Lower Costs

Quicker Turnaround

Simplified Code

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Disadvantages of Serverless

Testing Challenges

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Security Concerns

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Testing Challenges

Security Concerns

Short –Running
Processes

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Cold Start

Vendor
Lock-In

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Function-as-a-Service (FaaS)

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Small Bits of Code

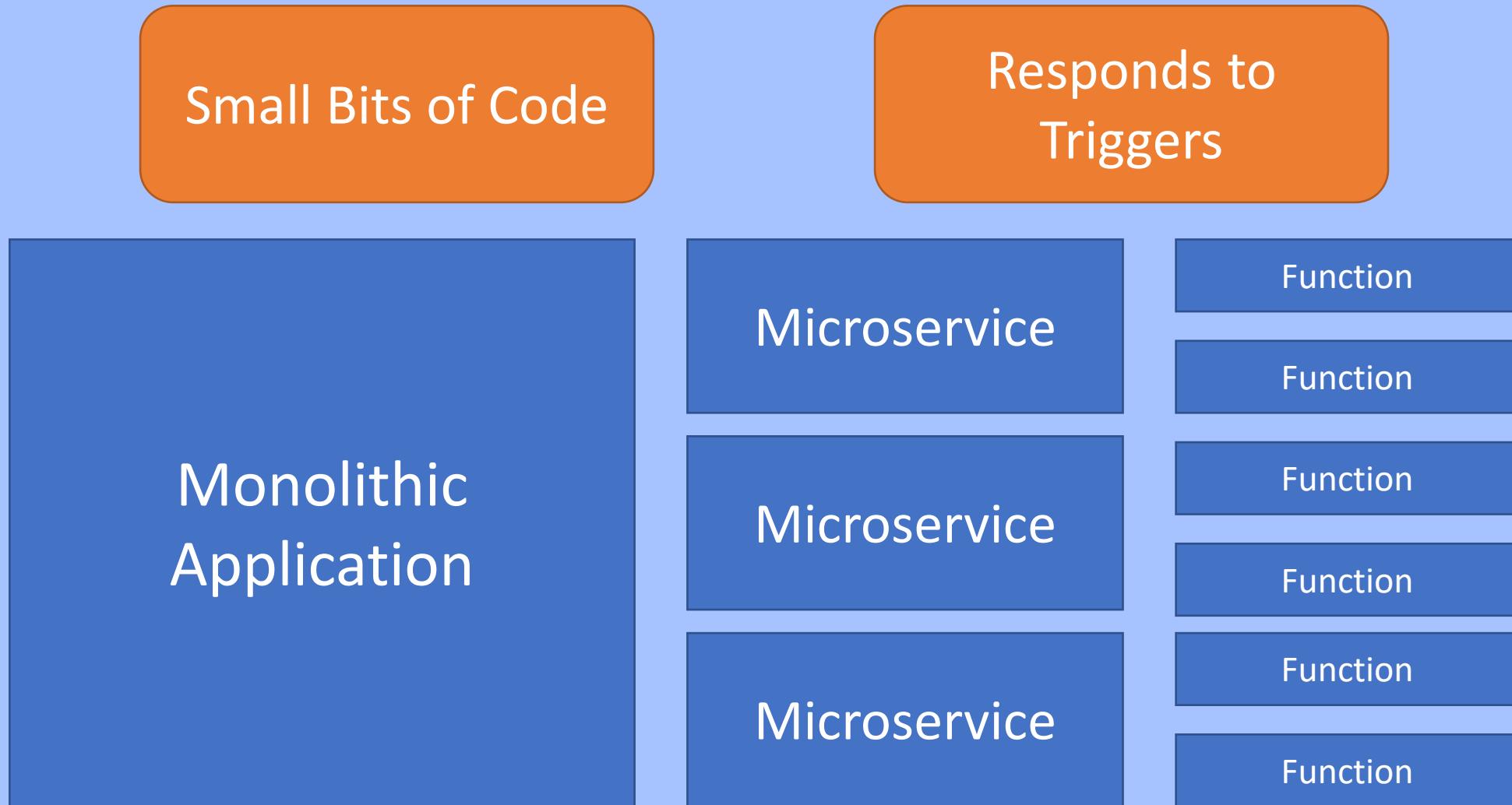
Responds to
Triggers

Function-as-a-Service (FaaS)

Small Bits of Code

Responds to
Triggers

Function-as-a-Service (FaaS)





Serverless vs Containers

Serverless vs Containers

Physical Machines

Serverless vs Containers

Scalability

Serverless vs Containers

Maintenance

Serverless vs Containers

Time of Deployment

Serverless vs Containers

Testing

Serverless vs Containers

	Serverless	Containers
Physical Machines	X	
Scalability	X	
Maintenance	X	
Time of Deployment	X	
Testing		X



A large blue shipping container is being crushed from the side by a much larger white one. The impact has caused the blue container's surface to shatter into numerous sharp, metallic-looking shards. The scene is set against a dramatic, cloudy sky at sunset or sunrise, with warm orange and yellow hues visible through the clouds.

Serverless Microservice

Based on Real-World Project



Product & Pricing Management (PPM)

Building in front of others



Vacation Rental Listing

- Allow property owners to list their vacation rentals
- Allow vacationers the ability to search for vacation rentals
- Provide vacationers with details of the properties
- Allow for configurable property/room attributes
- Localized versions of all the information

Data Model

Attributes

Content

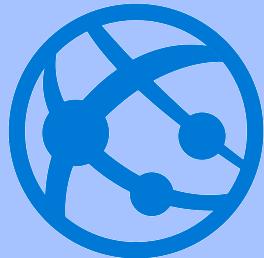
User Accounts

Rental Properties

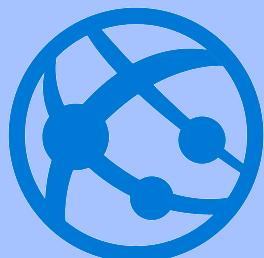
Reference Types

Rooms

Architecture

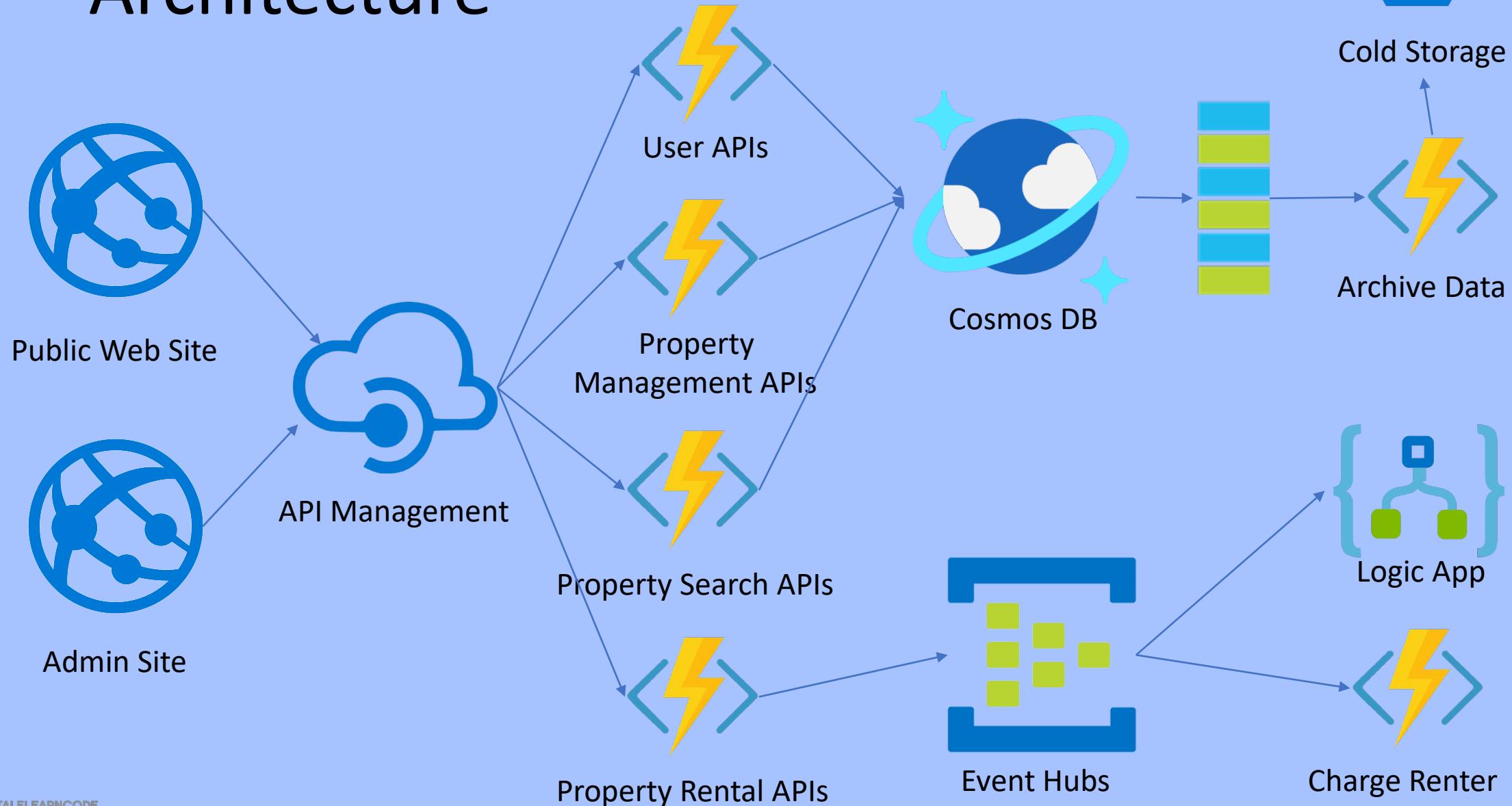


Public Web Site

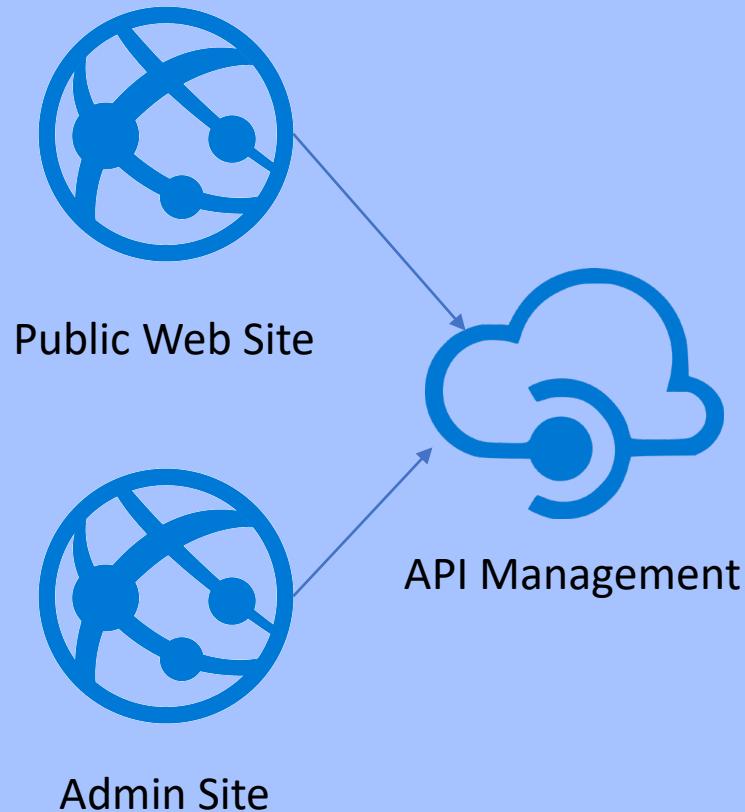


Admin Site

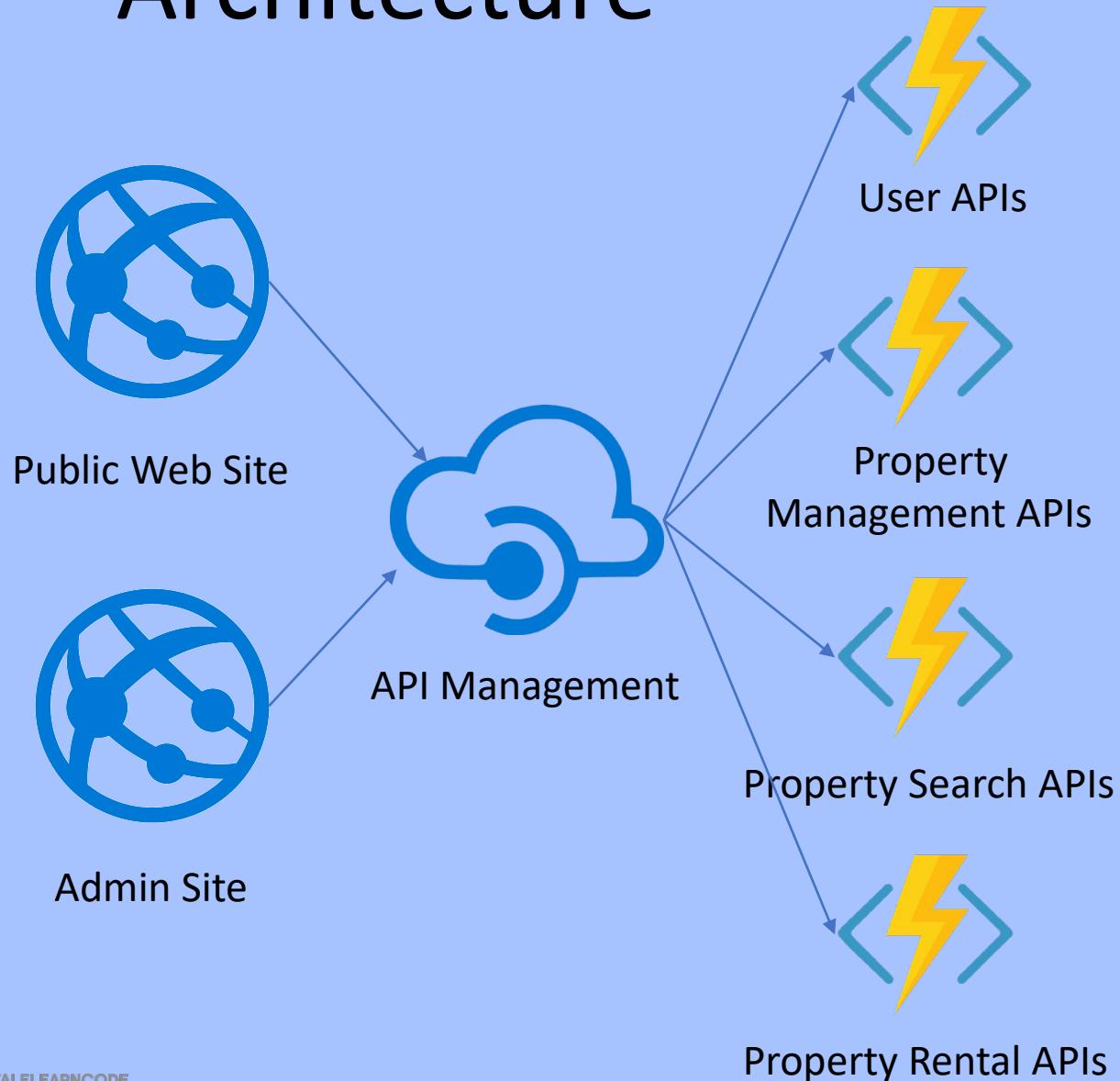
Architecture



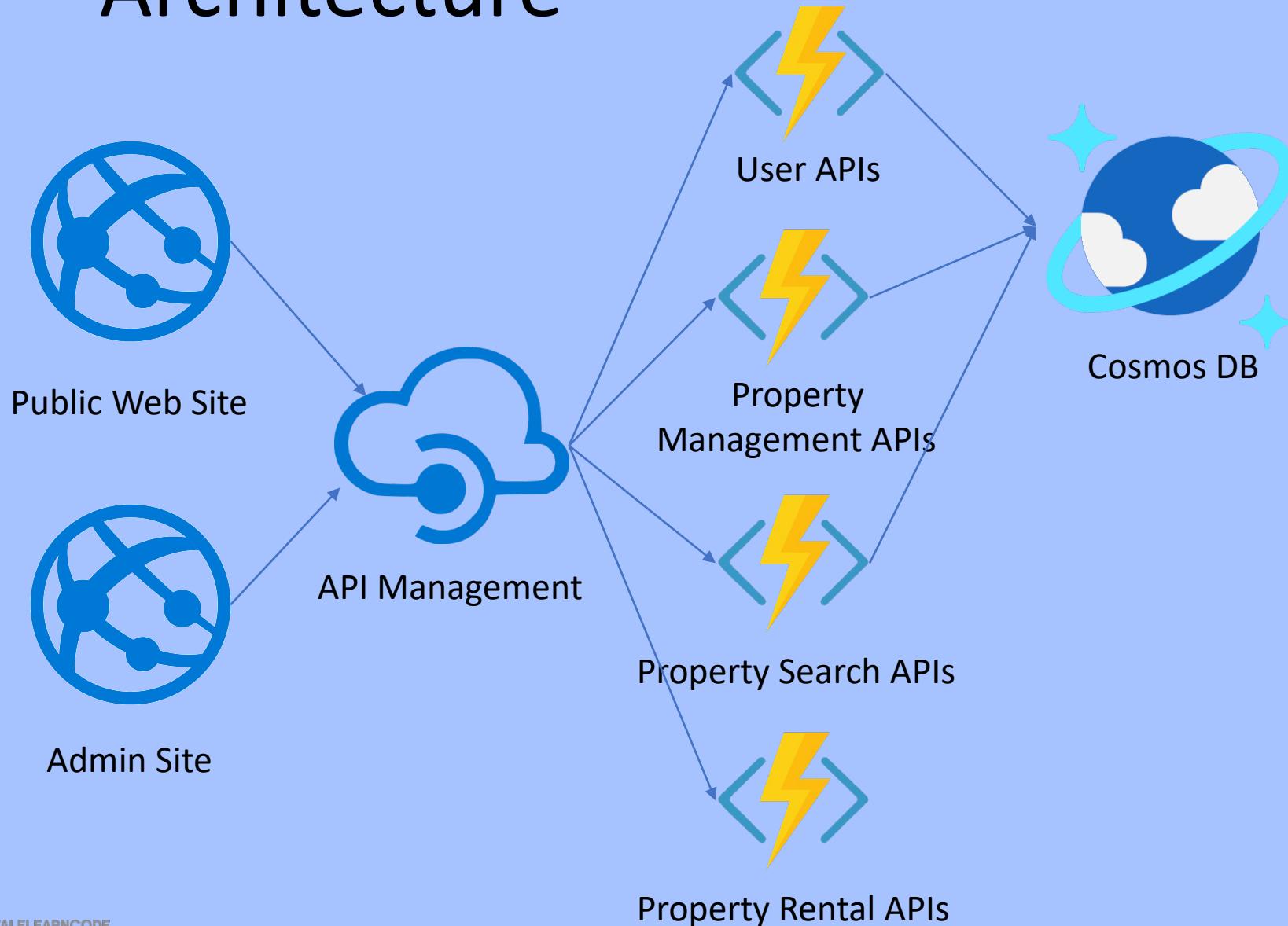
Architecture



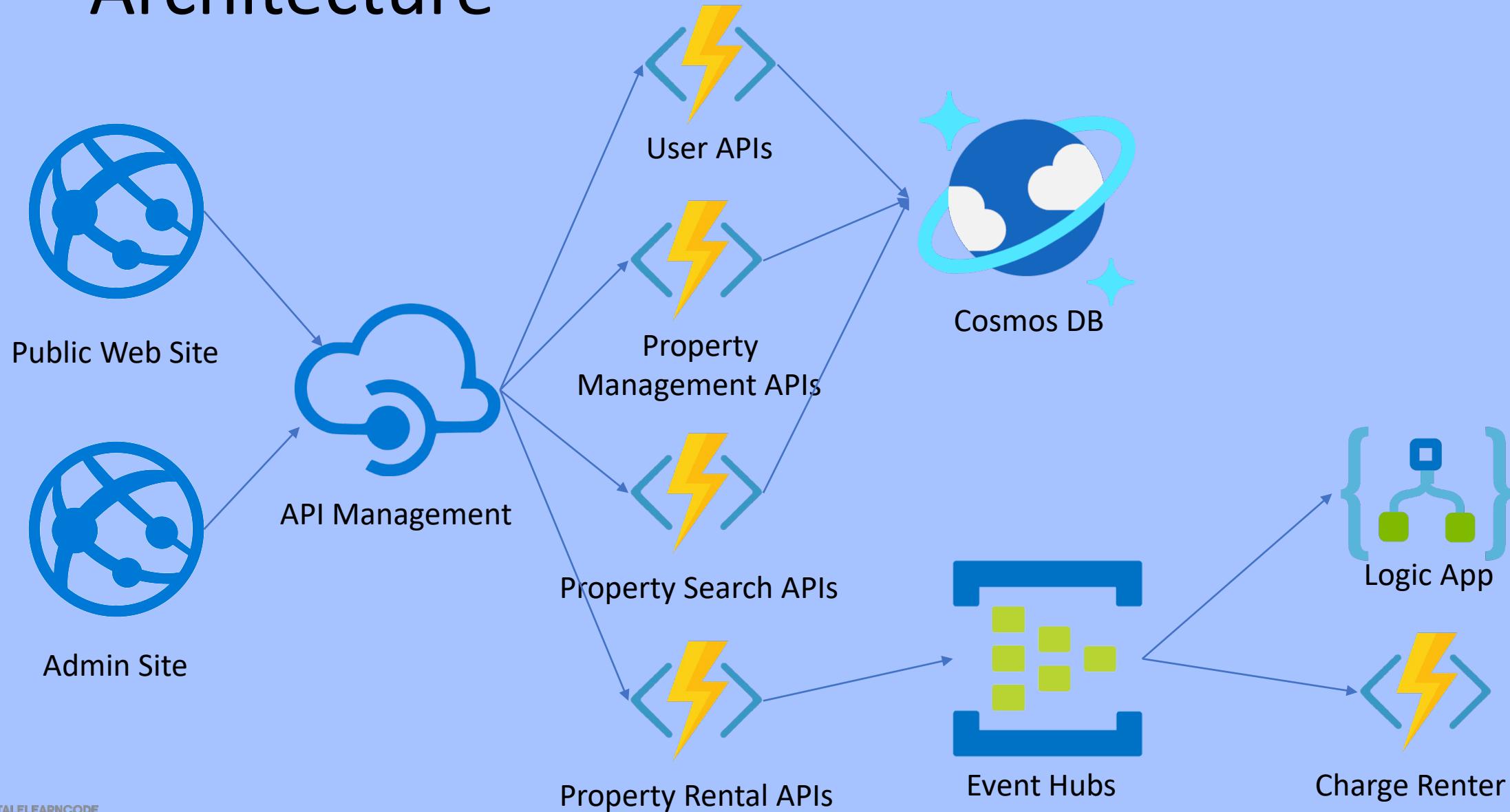
Architecture



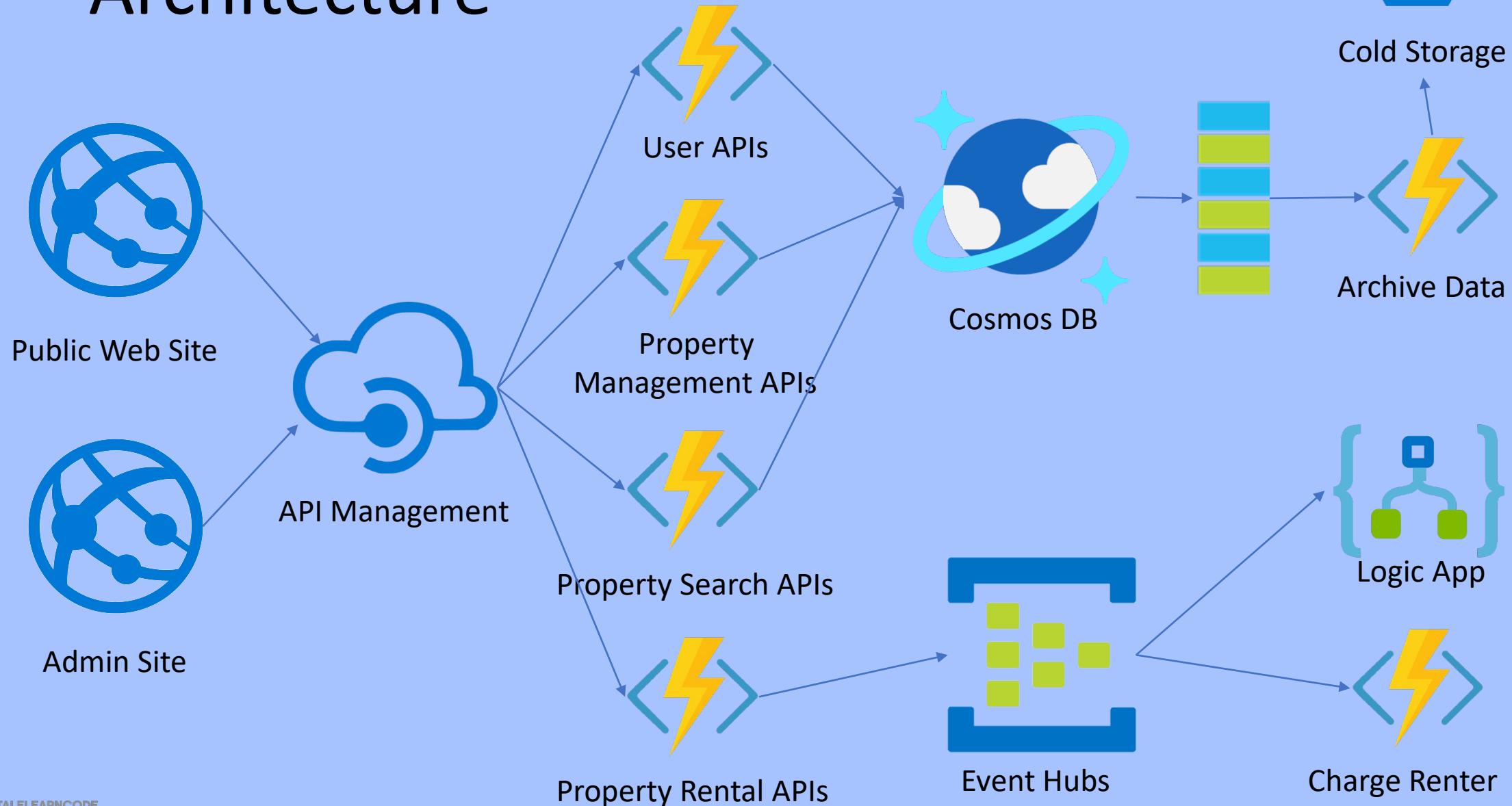
Architecture



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