

# The Taming of the API

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# Conference Mobile App

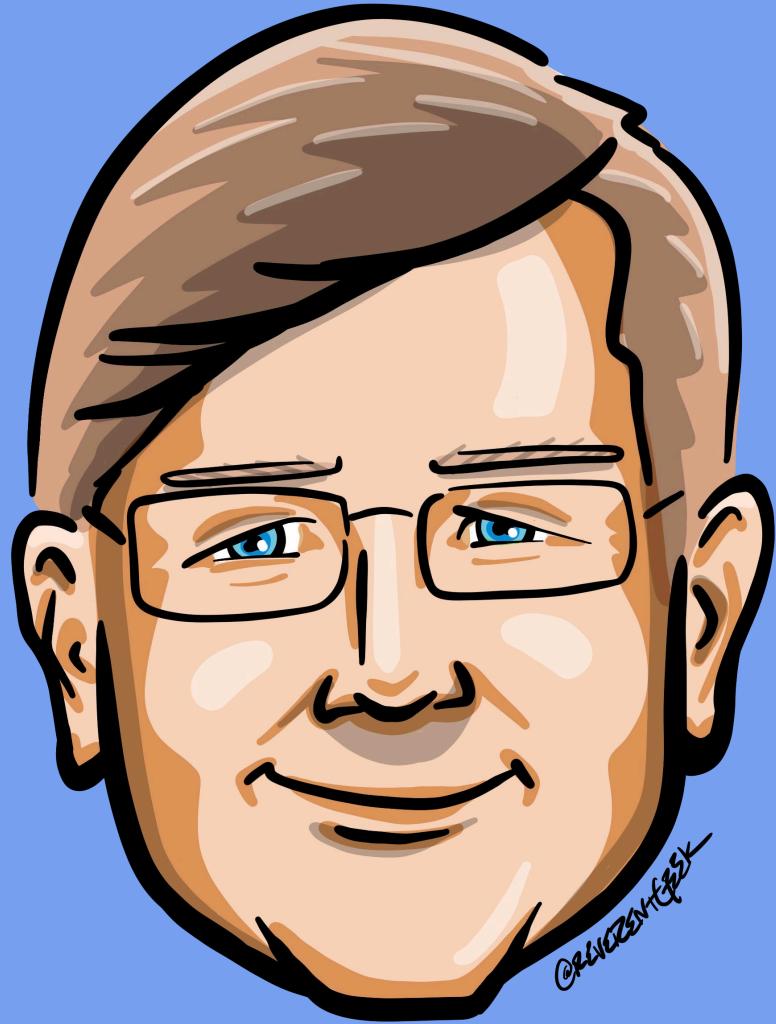


We want to hear from you!

#devup2022

# Who is Chad Green

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- 💬 TaleLearnCode
- 🌐 ChadGreen.com
- 🐦 ChadGreen & TaleLearnCode
- linkedin ChadwickEGreen





# {Code PaLOUsa}

IT'S SOFTWARE DEVELOPMENT MADNESS

August 17 – 19, 2022



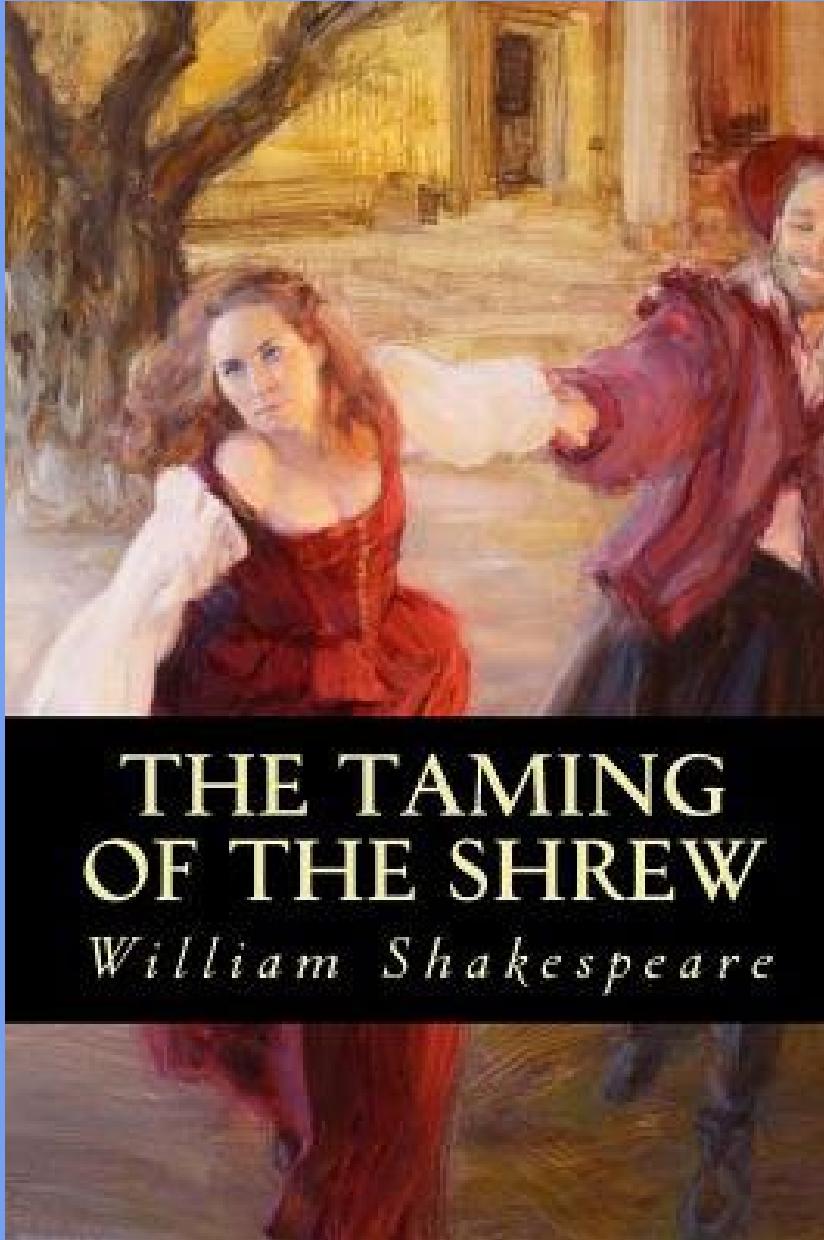
Keynote – Christina Aldan



.NET Rocks! 20<sup>th</sup> Anniversary Party

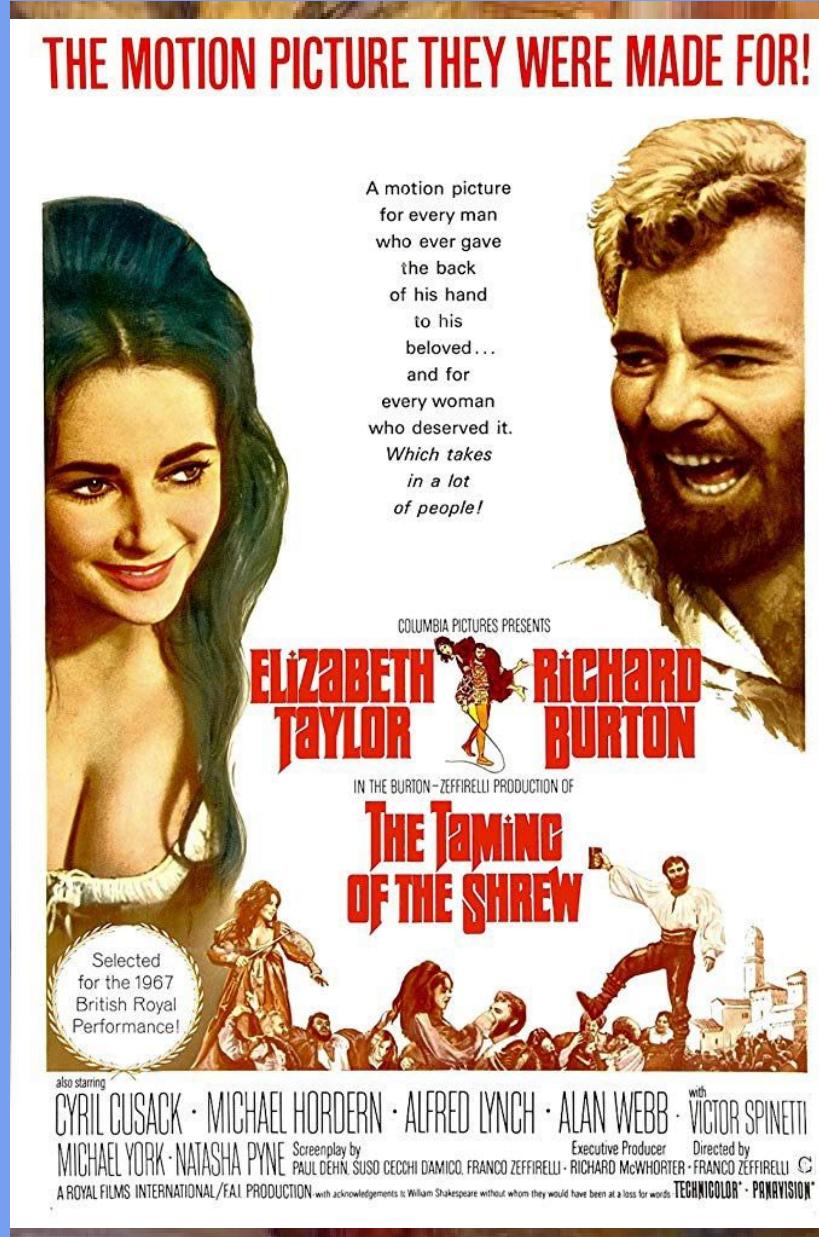
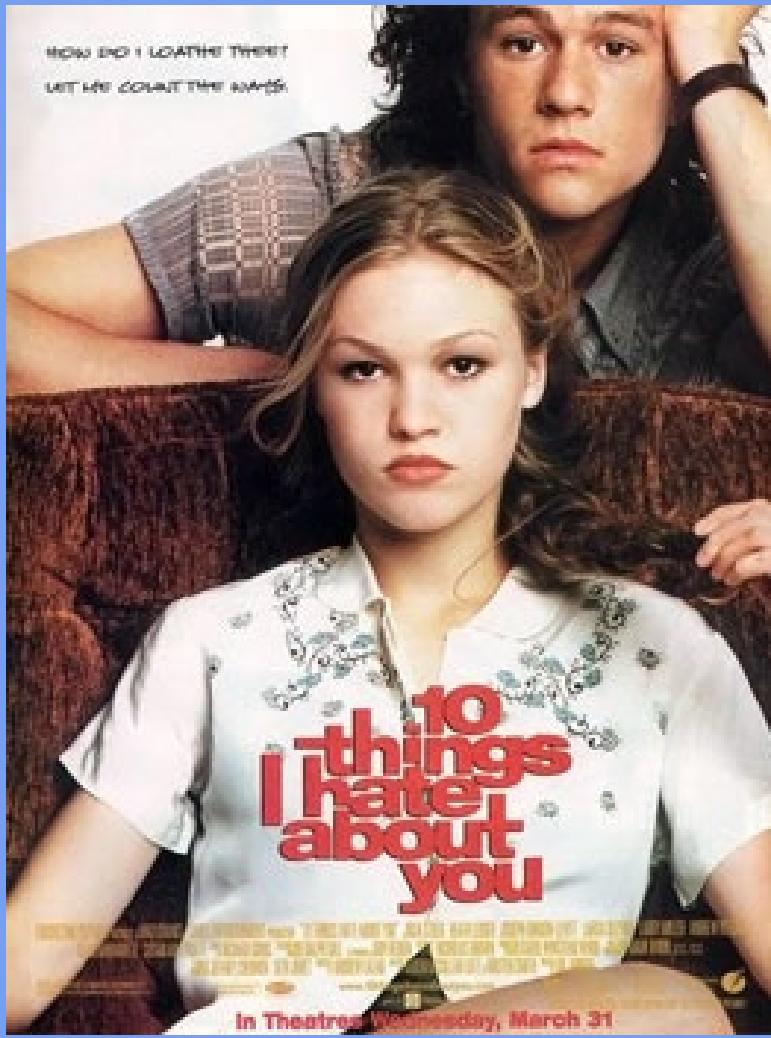


A Toast to Women in Technology



# THE TAMING OF THE SHREW

*William Shakespeare*



LA COLUMBIA PICTURES PRESENTA

# ELIZABETH TAYLOR • RICHARD BURTON

IN UNA PRODUZIONE BURTON - ZEFFIRELLI



# LA BISBETICA DOMATA

CYRIL CUSACK • MICHAEL HORDERN • ALFRED LYNCH • ALAN WEBB

VICTOR SPINETTI • MICHAEL YORK • NATASHA PYNE

SCENEGGIATURA DI PAUL DEHN, SUSO CECCHI D'AMICO, FRANCO ZEFFIRELLI

PRODUTTORE ESECUTIVO RICHARD McWHORTER

Regia di FRANCO ZEFFIRELLI

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UNA PRODUZIONE F.A.I. Roma - ROYAL FILMS INTERNATIONAL, INC.  
PRIMA EDIZIONE ITALIANA 1967



No profit grows where is  
no pleasure ta'en. In  
brief, sir, study what you  
most affect

# What's the problem?



Jokes



Famous  
Quotes



Movie  
Quotes



Inspiration  
Quotes



Chuck  
Norris  
Facts

Who

What

When

Where

Why

How

# What's the problem?



Jokes



Famous  
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# What's the problem?

Who

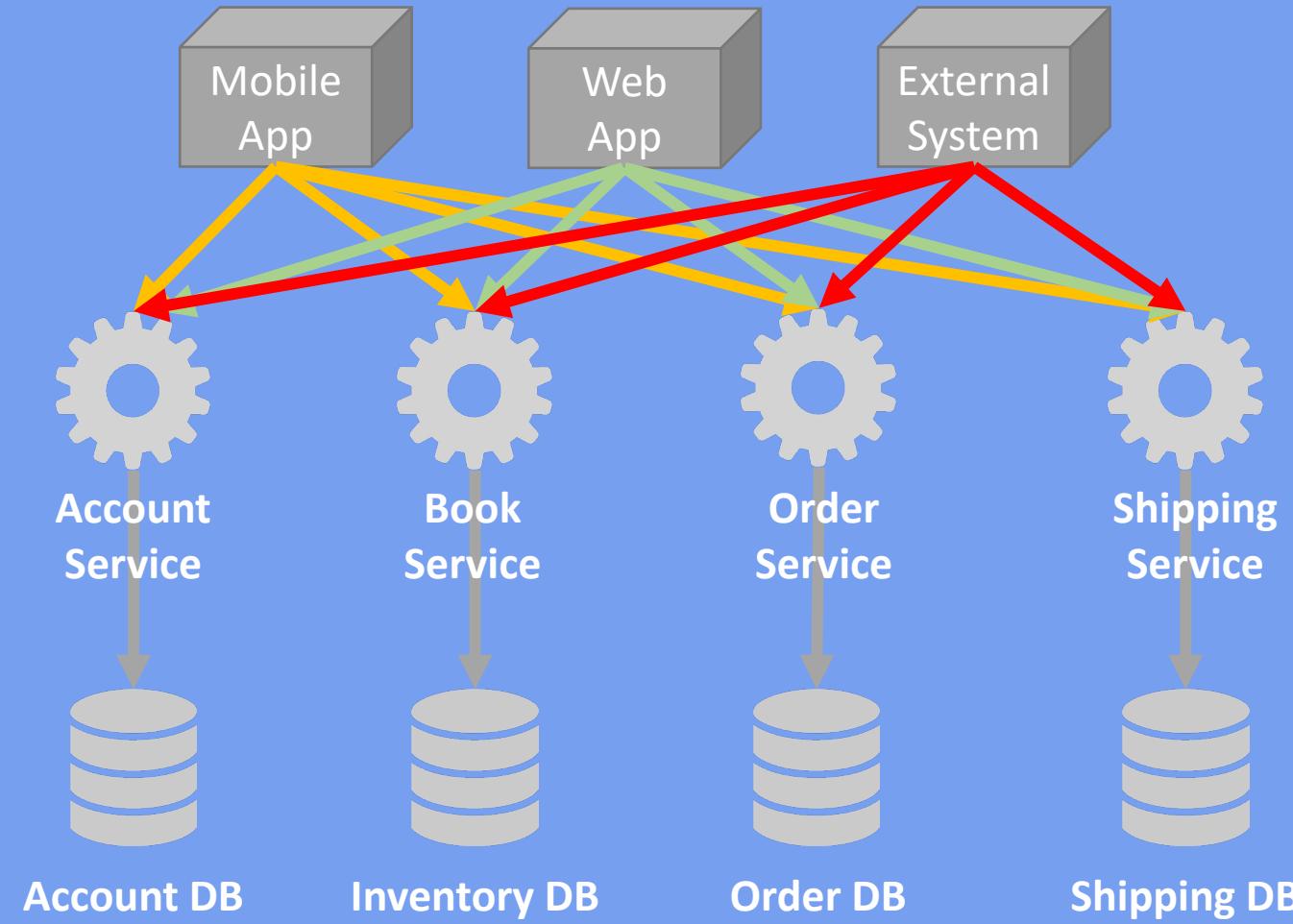
What

When

Where

Why

How





# API Management Basics

# What is API Management?

**Creating**  
API Connections

**Publishing**  
API Connections

**Managing**  
API Connections

# What is API Management?

**Creating**  
API Connections

**Publishing**  
API Connections

**Managing**  
API Connections

# What is API Management?

Creating and  
Publishing APIs

Enforcing Usage  
Policies

Controlling Access

Nurturing Developer  
Community

Tracking Usage

Performance  
Reporting

# API Management Benefits

Data-Driven  
Decisions

# API Management Benefits

Data-Driven  
Decisions

Security Threat  
Protection

# API Management Benefits

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# API Management Benefits

Data-Driven  
Decisions

Security Threat  
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Documentation

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# API Management Benefits

Data-Driven  
Decisions

Security Threat  
Detection

Documentation

Centralized  
Visibility

# API Management Benefits

Data-Driven  
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Security Threat  
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# API Management Benefits

Data-Driven  
Decisions

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Visibility

## Monetization

# API Management Benefits

Data-Driven  
Decisions

Security Threat  
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Centralized  
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## Monetization

# API Management Benefits

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Security Threat  
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Documentation

Centralized  
Visibility

Monetization

Positive User  
Experience

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# API Management Benefits

Data-Driven Decisions

Security Threat Detection

Documentation

Centralized Visibility

Monetization

## Agile Ecosystem

# API Management Benefits

Data-Driven Decisions

Security Threat Detection

Documentation

Centralized Visibility

Monetization

## Agile Ecosystem

# API Management Benefits

Data-Driven Decisions

Security Threat Detection

Documentation

Centralized Visibility

Monetization

Optimized Value

# API Management Benefits

Data-Driven Decisions

Security Threat Detection

Documentation

Centralized Visibility

Monetization

## Optimized Value

# API Management Benefits

Data-Driven Decisions

Security Threat

Documentation

Centralized Visibility

Monetization

Agile Ecosystem

Optimized Value

# API Management Benefits

Data-Driven  
Decisions

Security Threat  
Protection

Documentation

Centralized  
Visibility

Monetization

Positive User  
Experience

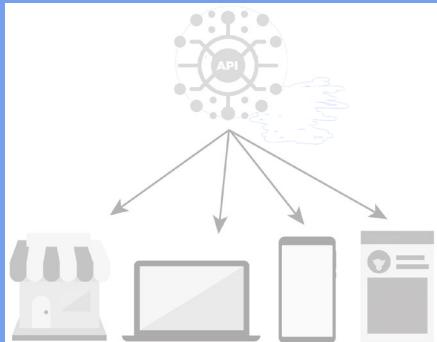
Agile Ecosystem

Optimized Value

# API Management Use Cases



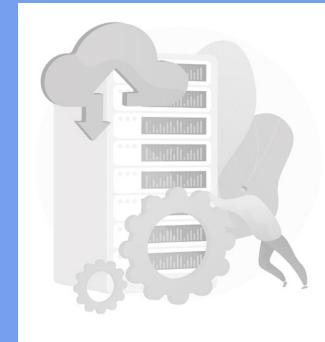
API Integration



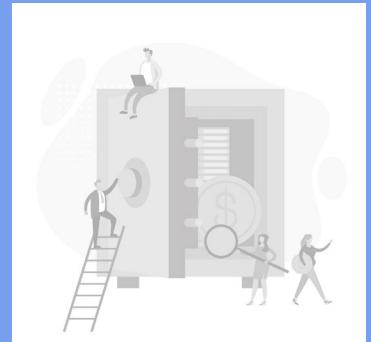
Multi-Channel  
User Experiences



B2B Integration



Data as a Service



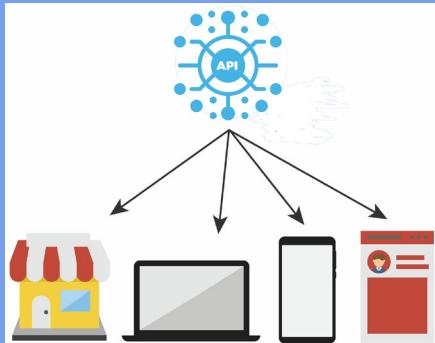
Unlocking  
Legacy Assets

## API Integration

# API Management Use Cases



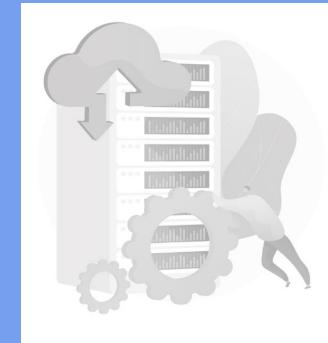
API Integration



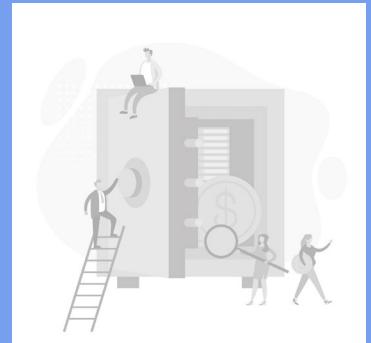
Multi-Channel  
User Experiences



B2B Integration



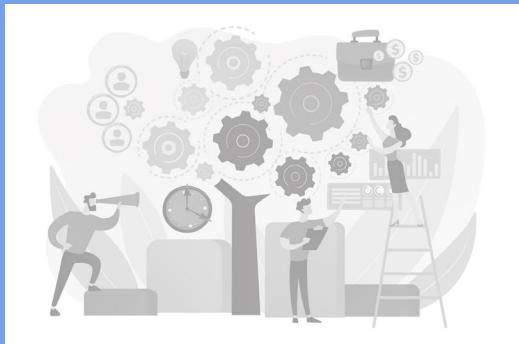
Data as a Service



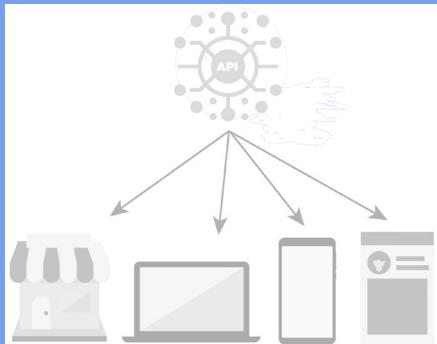
Unlocking  
Legacy Assets

## Multi-Channel User Experiences

# API Management Use Cases



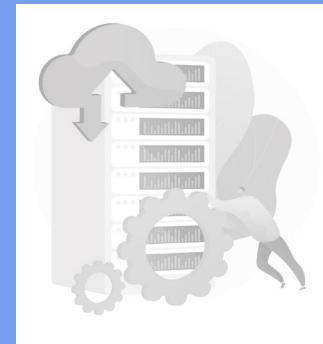
API Integration



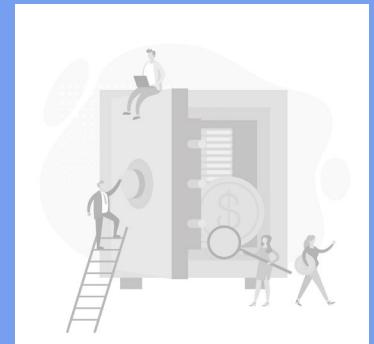
Multi-Channel  
User Experiences



B2B Integration



Data as a Service



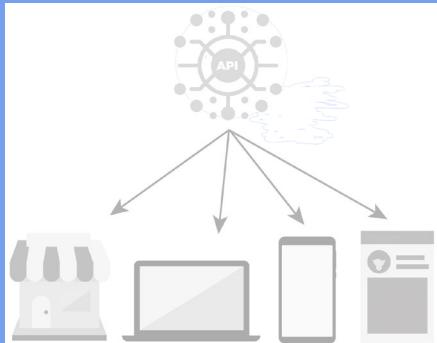
Unlocking  
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## B2B Integration

# API Management Use Cases



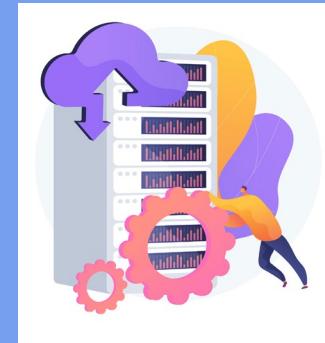
API Integration



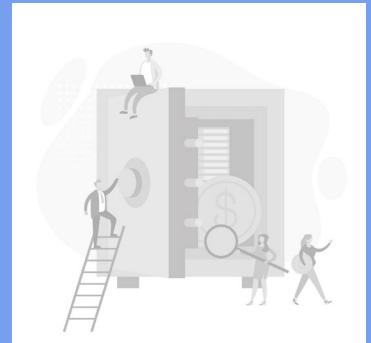
Multi-Channel  
User Experiences



B2B Integration



Data as a Service



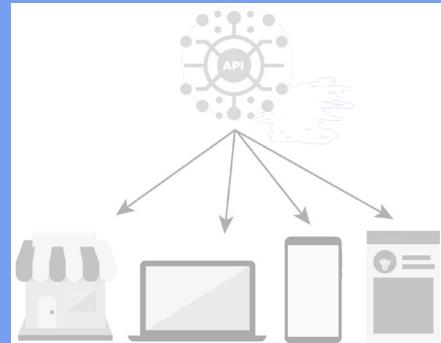
Unlocking  
Legacy Assets

## Data as a Service

# API Management Use Cases



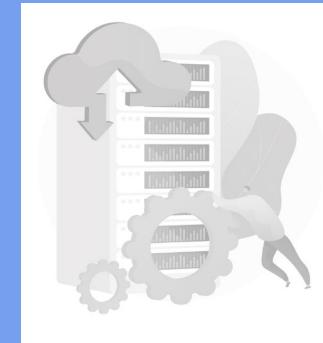
API Integration



Multi-Channel  
User Experiences



B2B Integration



Data as a Service



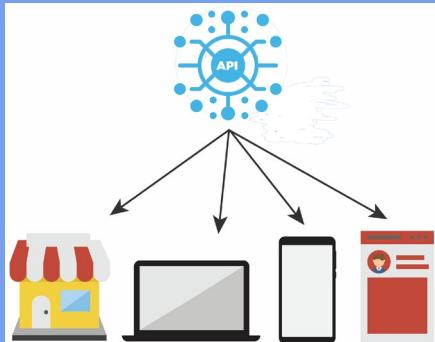
Unlocking  
Legacy Assets

## Unlocking Legacy Assets

# API Management Use Cases



API Integration



Multi-Channel  
User Experiences



B2B Integration



Data as a Service



Unlocking  
Legacy Assets

# API Management Components

Gateway

# API Management Components

Gateway

Policy Manager

# API Management Components

Gateway

Developer Portal

# API Management Components

Gateway

Reporting and  
Analytics

Developer Portal

# API Management Components

Gateway

Lifecycle  
Management

Developer Portal

Reporting and  
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# API Management Components

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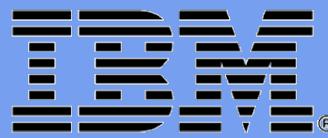
Monetization

# API Management Marketplace



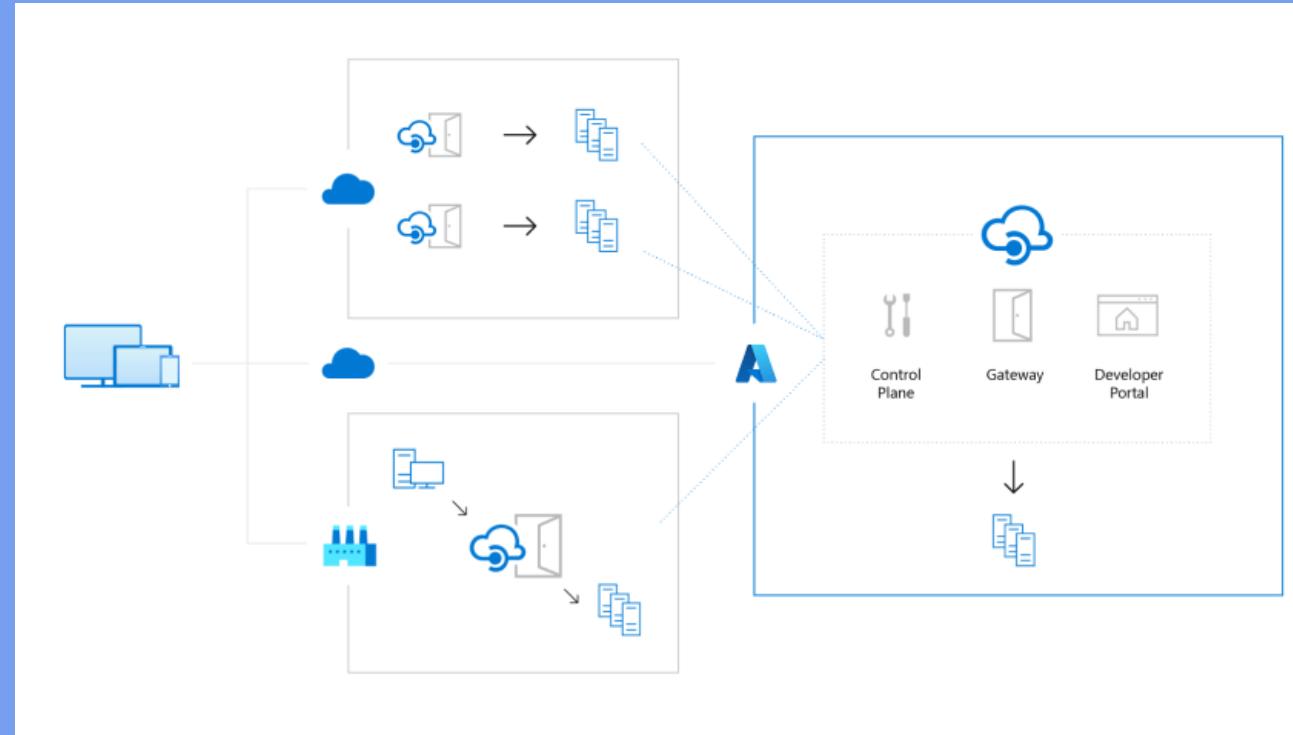
There's small choice  
in rotten apples

# API Management Offerings



# Azure API Management

Manage APIs across clouds and on-premises



# Azure API Management

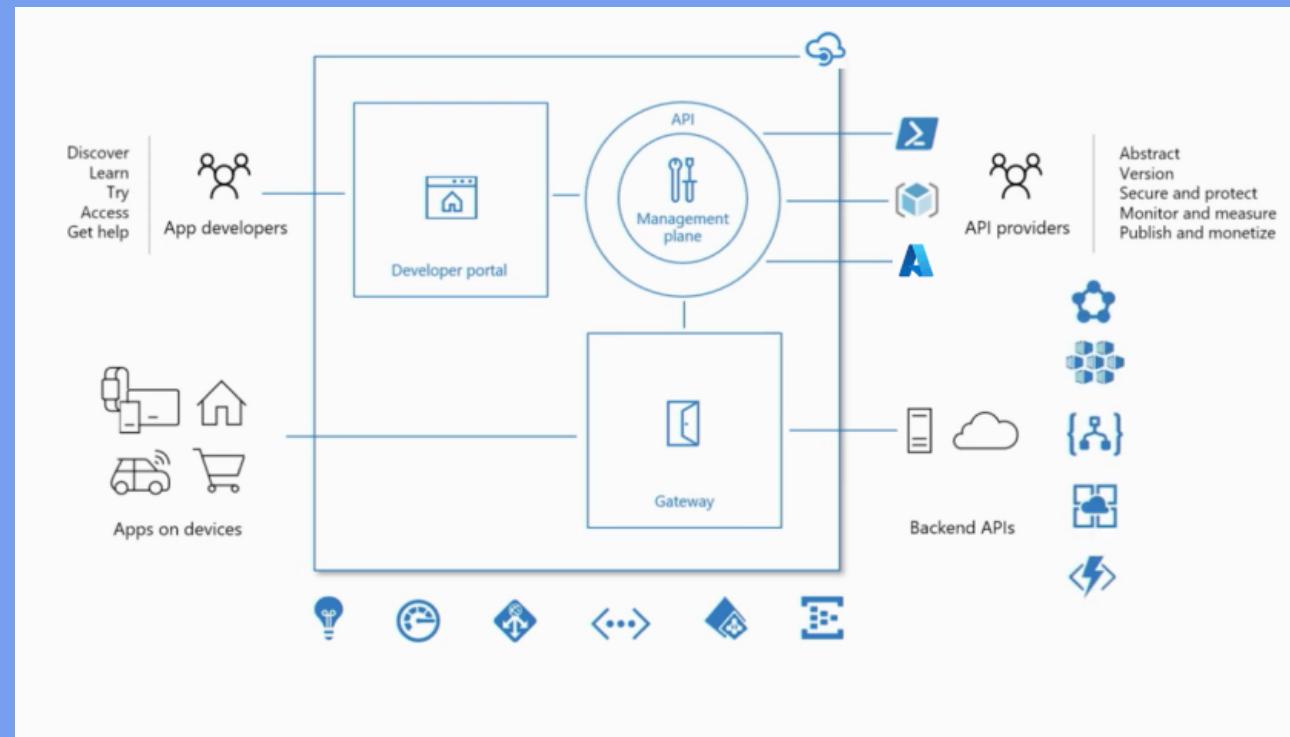
## Help protect your resources

The screenshot shows the Azure API Management interface for adding inbound policies. The top navigation bar includes 'REVISION 1', 'Design', 'Settings', 'Test', 'Revisions', and 'Change log'. A sidebar on the left lists operations: '+ Add operation', 'All operations', 'POST Create resource', 'PUT Modify Resource', 'DEL Remove resource', 'HEAD Retrieve header o...', 'GET Retrieve resource', and 'GET Retrieve resource...'. The main area is titled 'Add inbound policy' and displays six policy options in a grid:

- Filter IP addresses** (ip-filter): Set filtering of incoming requests based on allowed or blocked IP addresses. [Learn more](#)
- Limit call rate** (rate-limit-by-key): Set rate limit policy to control the number of requests reaching the backend service. [Learn more](#)
- Mock responses** (mock-response): Set mocking policy to return a response based on the defined samples, rather than by calling the backend service. [Learn more](#)
- Allow cross-origin resource sharing (CORS)** (cors): Set CORS policy to allow cross-domain calls from browser-based clients. [Learn more](#)
- Cache responses** (cache-lookup/store): Set response caching policies to reduce API latency, bandwidth consumption and web service load. [Learn more](#)
- Set usage quota by key** (quota-by-key): Enforces a renewable or lifetime call volume and/or bandwidth quota, on a per key basis. [Learn more](#)

# Azure API Management

Accelerate your business



# Azure API Management

## Improve API discoverability

The screenshot shows the Azure API Management portal interface. On the left, there's a sidebar with the organization name "contoso". The main area displays the "Echo API". Under the "Echo API" heading, there's a section titled "Retrieve resource". Below it, a note states: "A demonstration of a GET call on a sample resource. It is handled by an "echo" base and the response body is being returned as received." A "Request" tab is selected, showing the URL "GET https://mibudz-portal.developer.azure-api.net/echo/resource". To the right, a detailed view of the "Retrieve resource" operation is shown. It includes a "Parameters" section with "id" set to "1", a "Headers" section with "Content-Type" set to "application/json", and an "HTTP request" section with the full URL "GET https://api.contoso.com/echo/resource?id=1", "Content-Type: application/json", and "Ocp-Apim-Trace: true".

# Azure API Management

Transform your existing services

The screenshot shows the Azure API Management portal interface. On the left, there's a sidebar with a 'contoso' organization logo. Below it is a list of API operations:

- POST** Create resource
- PUT** Modify Resource
- DEL** Remove resource
- HEAD** Retrieve header only
- GET** Retrieve resource (selected)
- GET** Retrieve resource (cached)

The main content area is titled 'Echo API'. Underneath, there's a section titled 'Retrieve resource' with the following details:

A demonstration of a GET call on a sample resource. It is handled by an "echo" base class. The response body is being returned as received.

Request Response 200

GET https://mibudz-portal.developer.azure-api.net/echo/resource

On the right side of the main content area, there's a detailed view of the selected 'GET /resource' operation:

Echo API / Original / Retrieve resource

GET /resource

Parameters

id	1
----	---

Headers

Content-Type	application/json
--------------	------------------

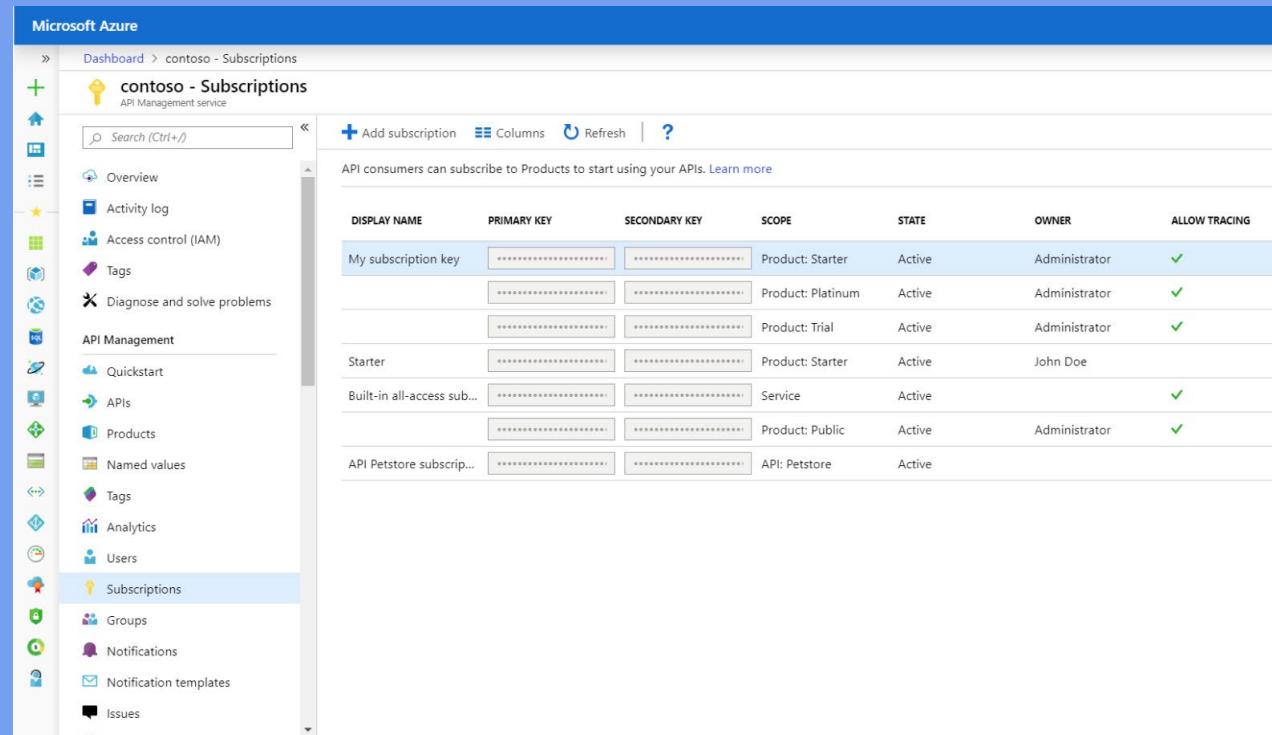
HTTP request

GET https://api.contoso.com/echo/resource?id=1

Content-Type: application/json  
Ocp-Apim-Trace: true

# Azure API Management

## Transform your existing services



The screenshot shows the Microsoft Azure portal interface for managing API subscriptions. The left sidebar navigation bar is visible, showing various service categories like Overview, Activity log, Access control (IAM), Tags, and API Management. Under API Management, the 'Subscriptions' option is selected and highlighted with a blue background. The main content area displays a table of existing subscriptions:

DISPLAY NAME	PRIMARY KEY	SECONDARY KEY	SCOPE	STATE	OWNER	ALLOW TRACING
My subscription key	[REDACTED]	[REDACTED]	Product: Starter	Active	Administrator	✓
	[REDACTED]	[REDACTED]	Product: Platinum	Active	Administrator	✓
	[REDACTED]	[REDACTED]	Product: Trial	Active	Administrator	✓
Starter	[REDACTED]	[REDACTED]	Product: Starter	Active	John Doe	
Built-in all-access sub...	[REDACTED]	[REDACTED]	Service	Active		✓
	[REDACTED]	[REDACTED]	Product: Public	Active	Administrator	✓
API Petstore subscrip...	[REDACTED]	[REDACTED]	API: Petstore	Active		

# Tiers & Pricing

Basic

Standard

Premium

Developer

Consumption

Isolated

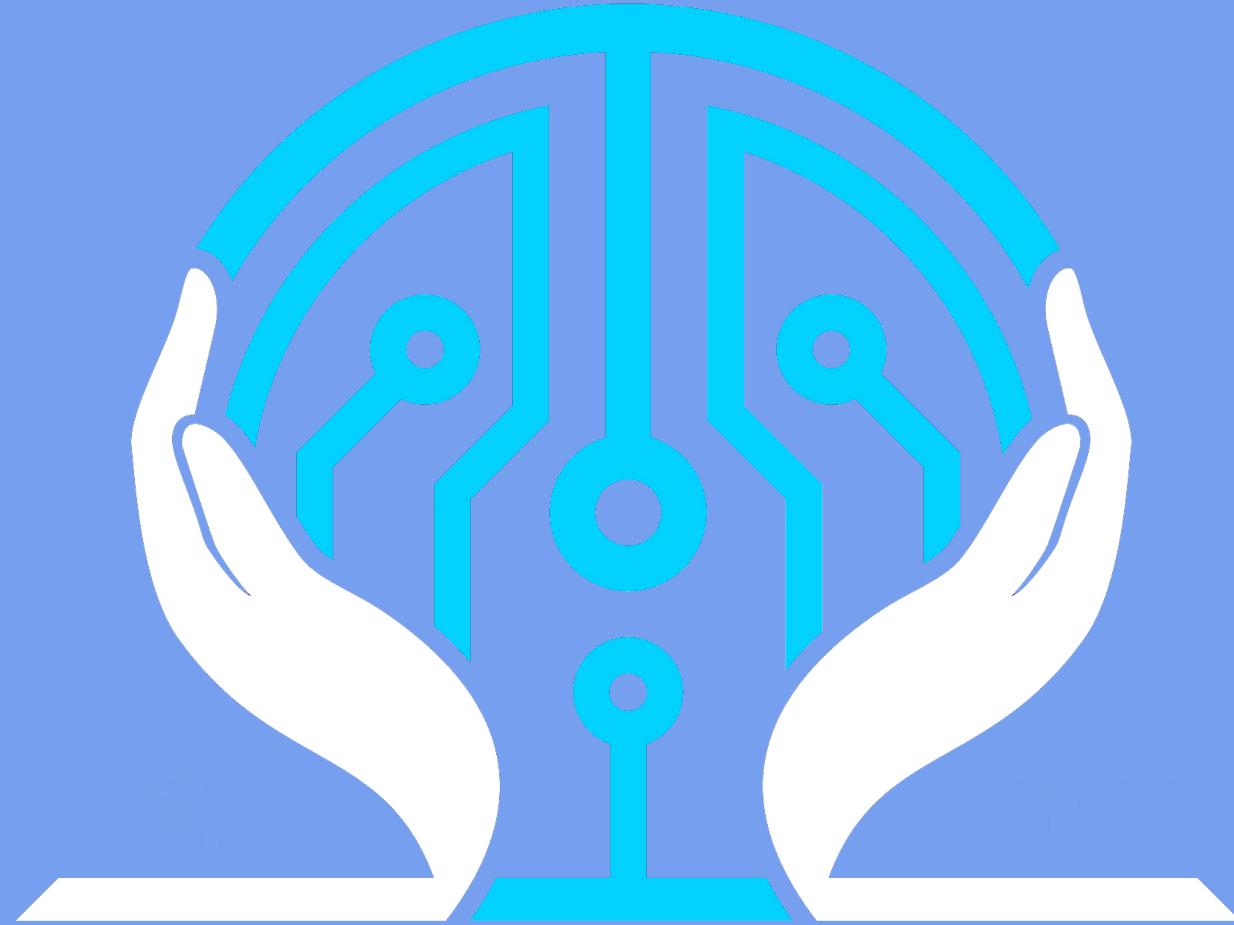
# Tiers & Pricing

	Consumption	Developer	Basic	Standard	Premium	Isolated
Price	\$0.035/10k	\$48.04	\$147.17	\$686.72	\$2795.17	TBA
Cache	External Only	10-Mb	50-Mb	1-Gb	5-Gb	5-Gb
Scale-Out	N/A	1	2	4	12/region	12/region
SLA	99.95%	No	99.95%	99.95%	99.99%	99.99%
Isolation	Shared	Private	Private	Private	Private	Private
Developer Portal	No	Yes	Yes	Yes	Yes	Yes
Azure AD Integration	No	Yes	No	Yes	Yes	Yes
Virtual Network	No	Yes	No	No	Yes	Yes
Multi-Region Deployment	No	No	No	No	Yes	Yes
Self-Hosted Gateway	No	Yes	No	No	Yes	Yes
Max Throughput	N/A	500	1,000	2,500	4,000	4,000
Compute Isolation	No	No	No	No	No	Yes



**‘Tis hatched, and shall be so.**

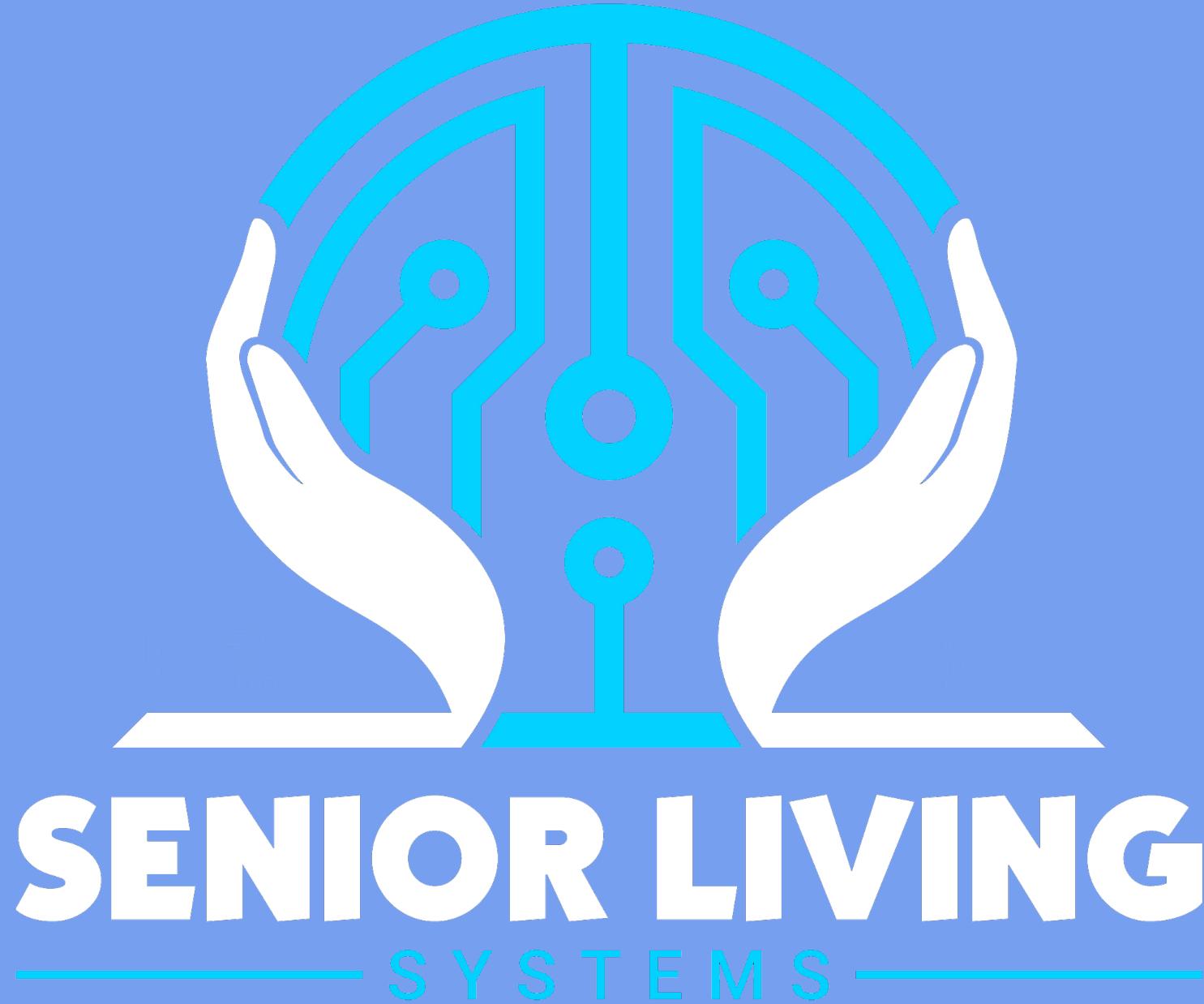
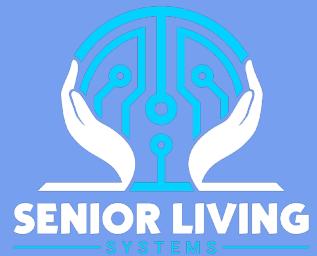
# API Management Demonstration

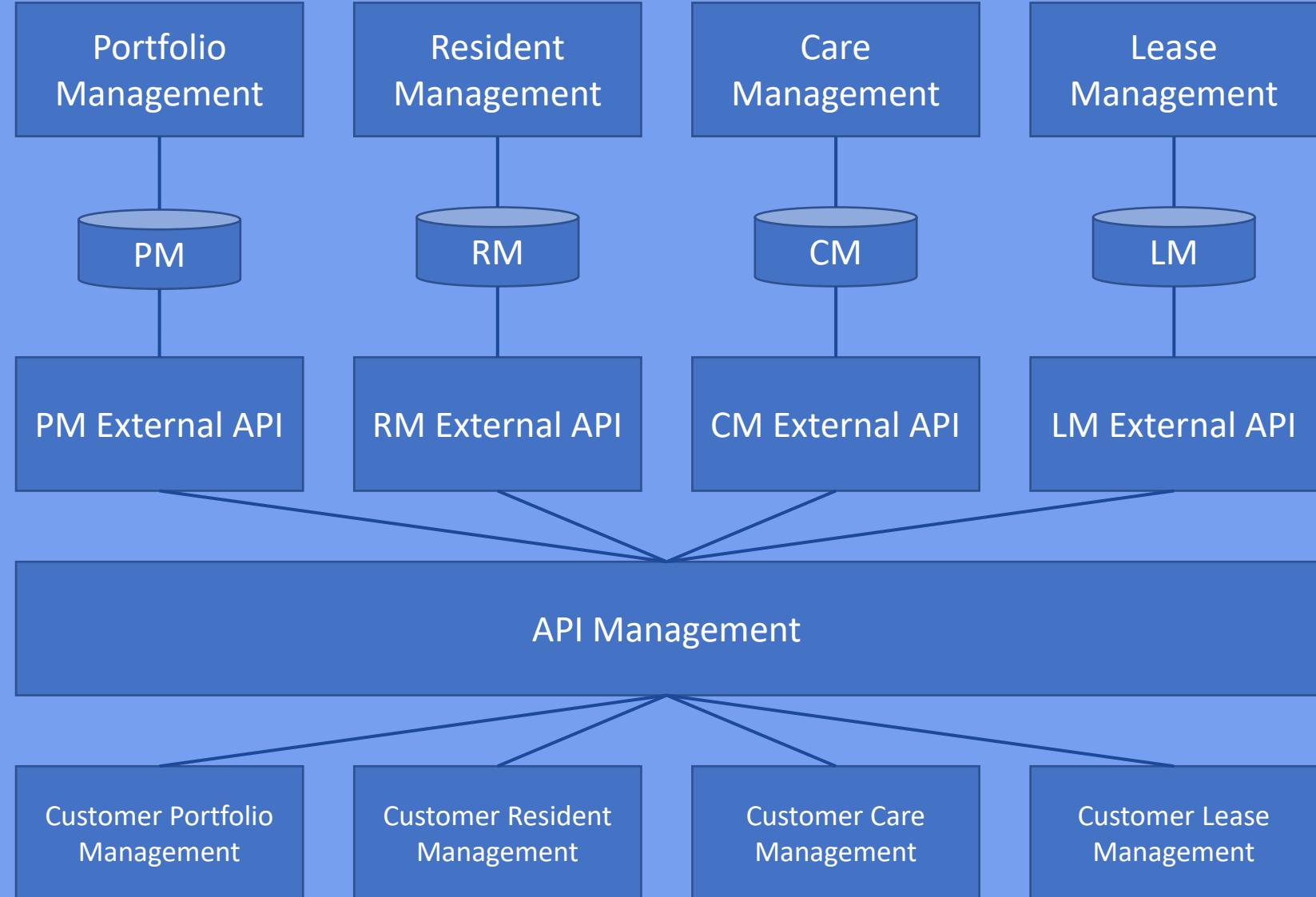
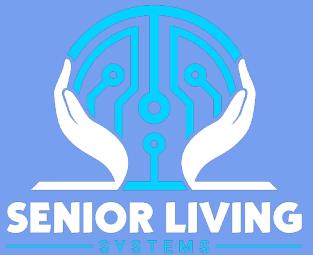


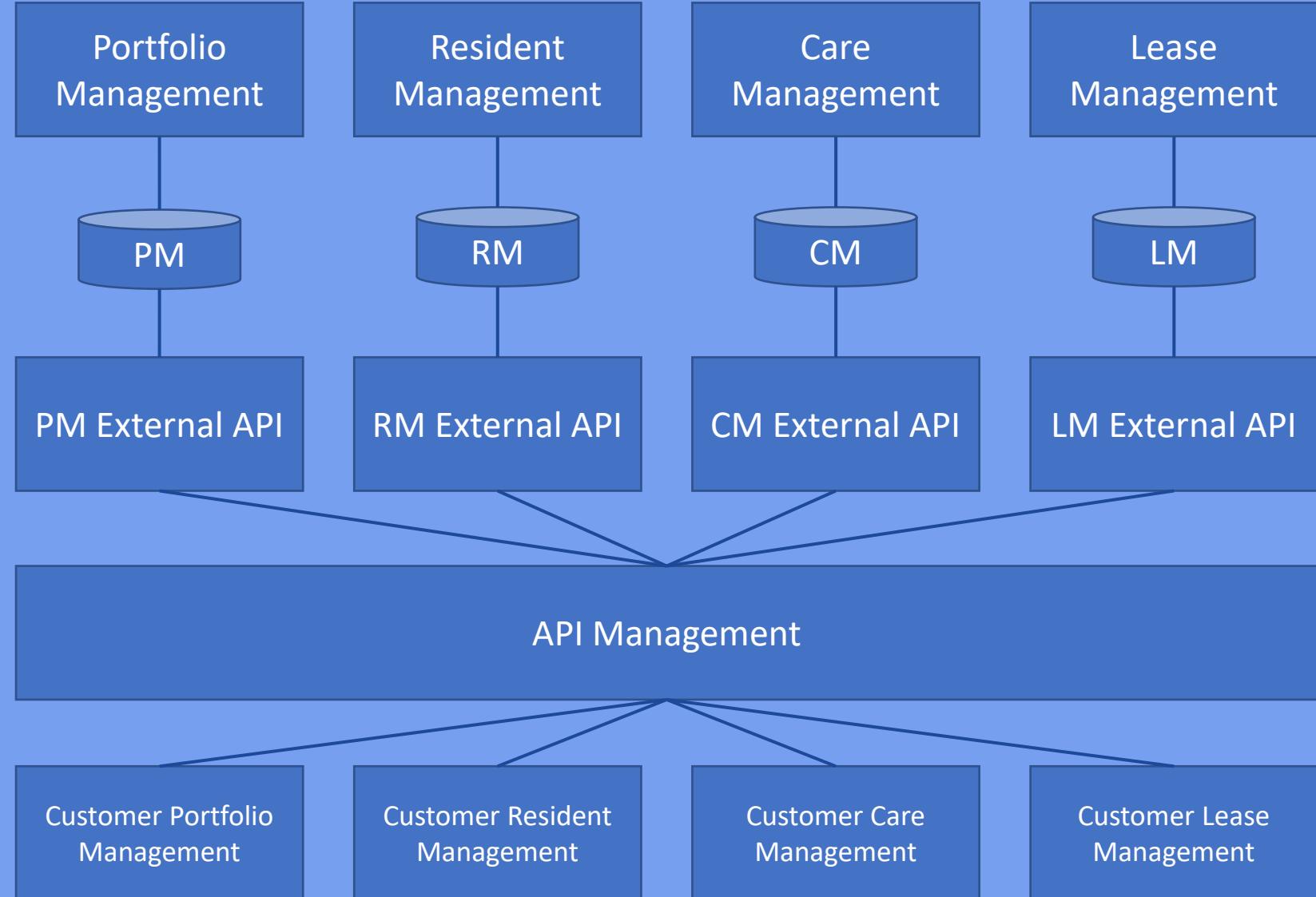
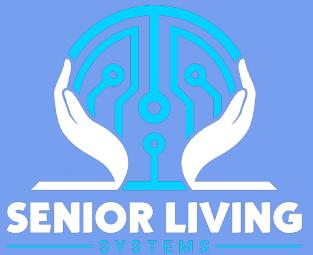
# SENIOR LIVING

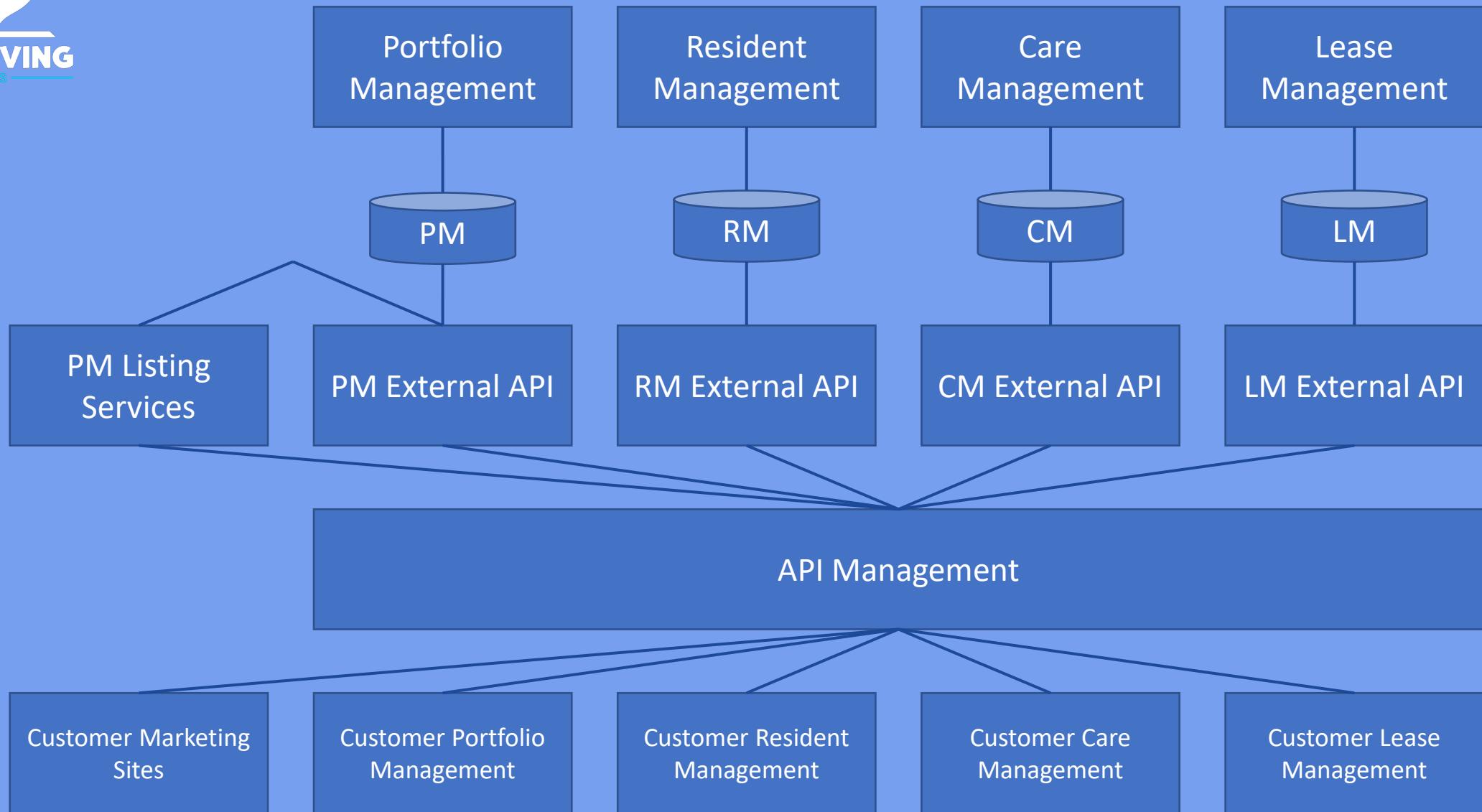
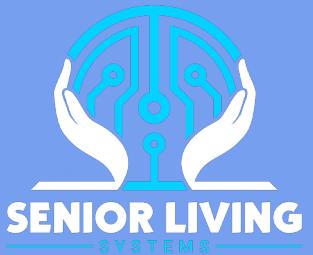
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S Y S T E M S











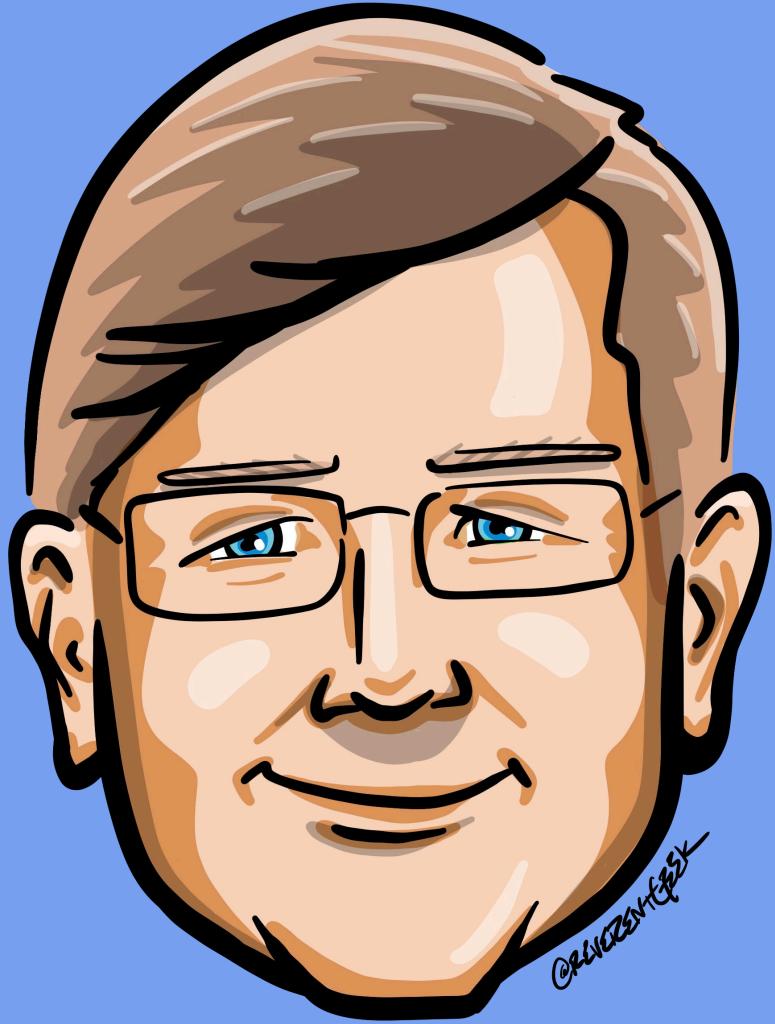
The Taming of the API



Better once than  
never, for never  
too late.

# Questions?

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- 🌐 ChadGreen.com
- 🐦 ChadGreen & TaleLearnCode
- linkedin ChadwickEGreen





Thank you!