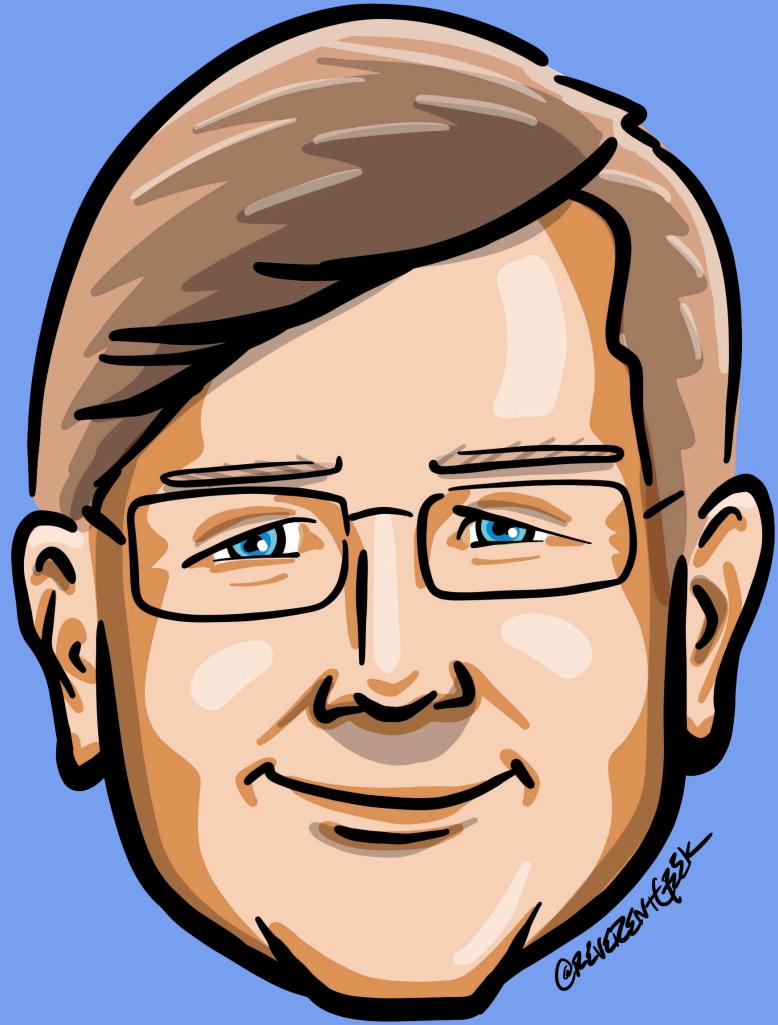


The Taming of the API

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





{Code PaLOUsa}

IT'S SOFTWARE DEVELOPMENT MADNESS

August 17 – 19, 2022



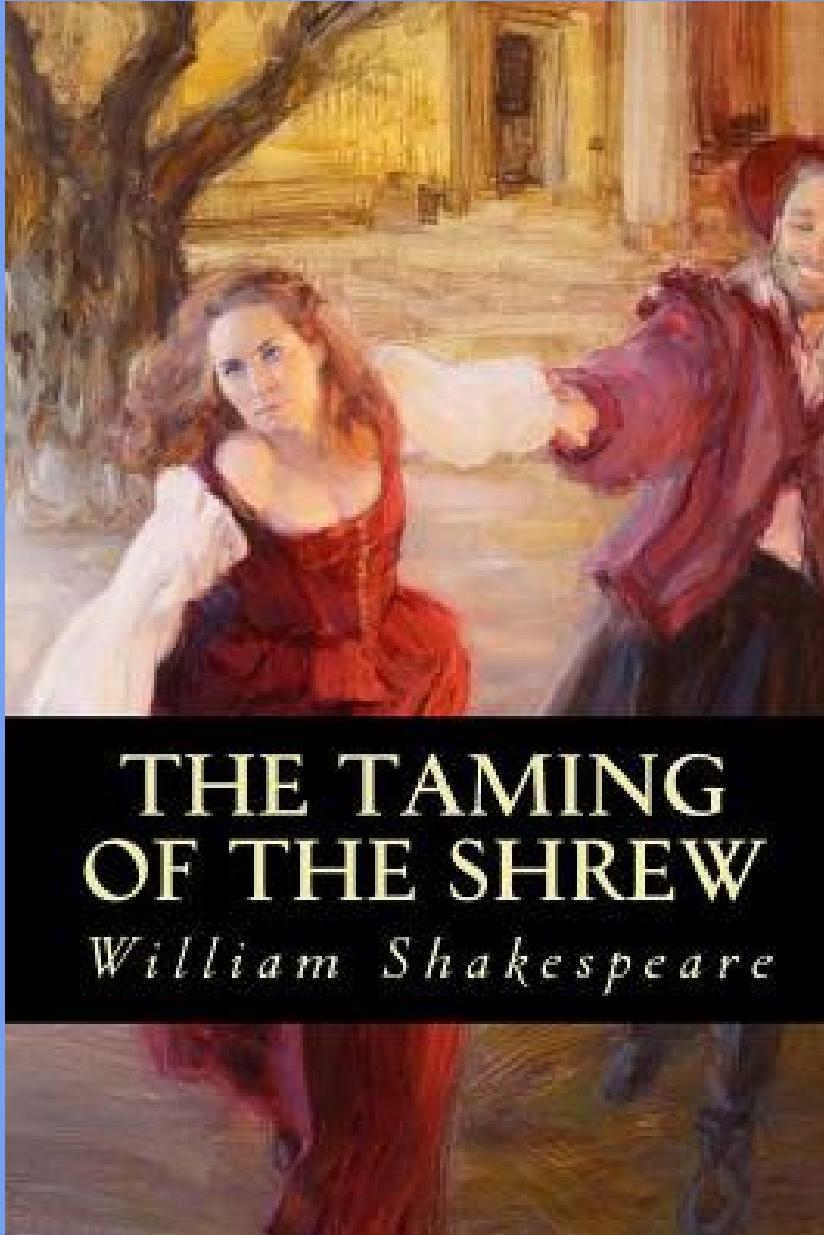
Keynote – Christina Aldan



.NET Rocks! 20th Anniversary Party

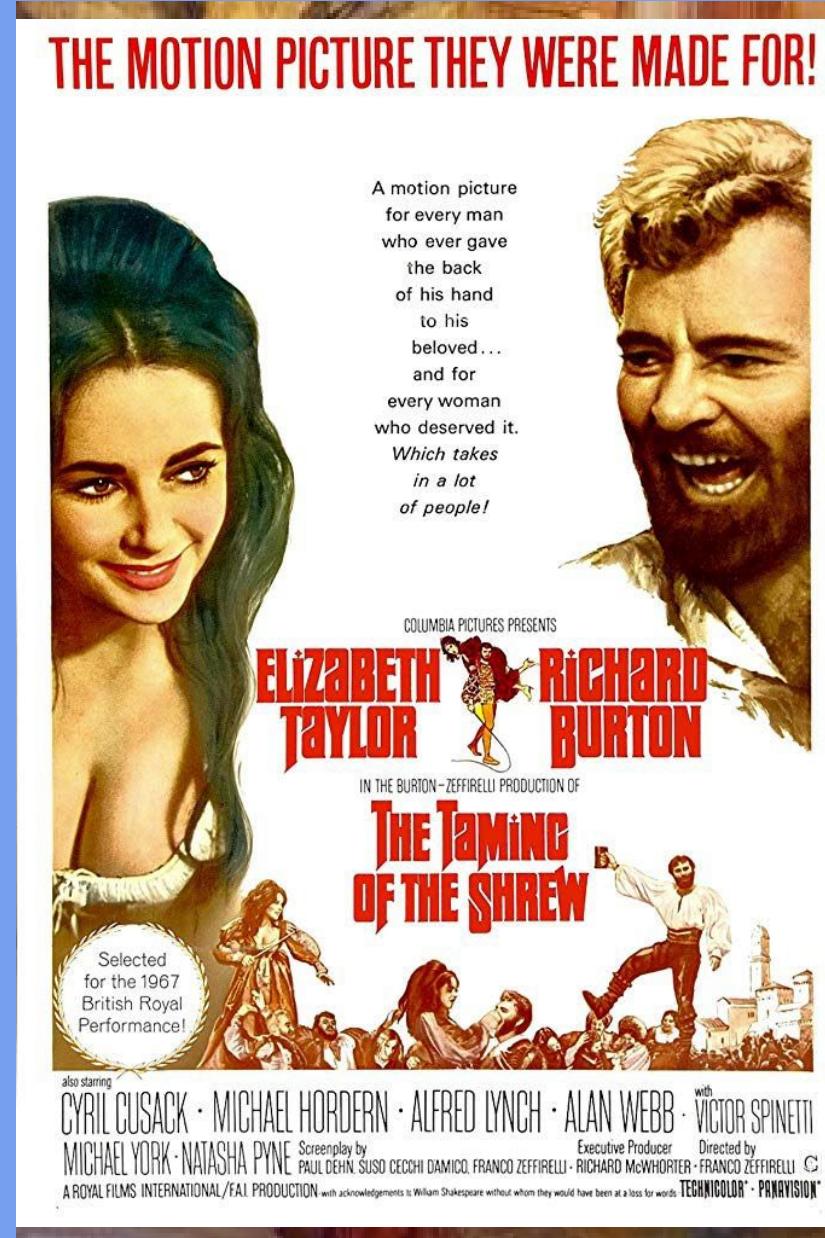
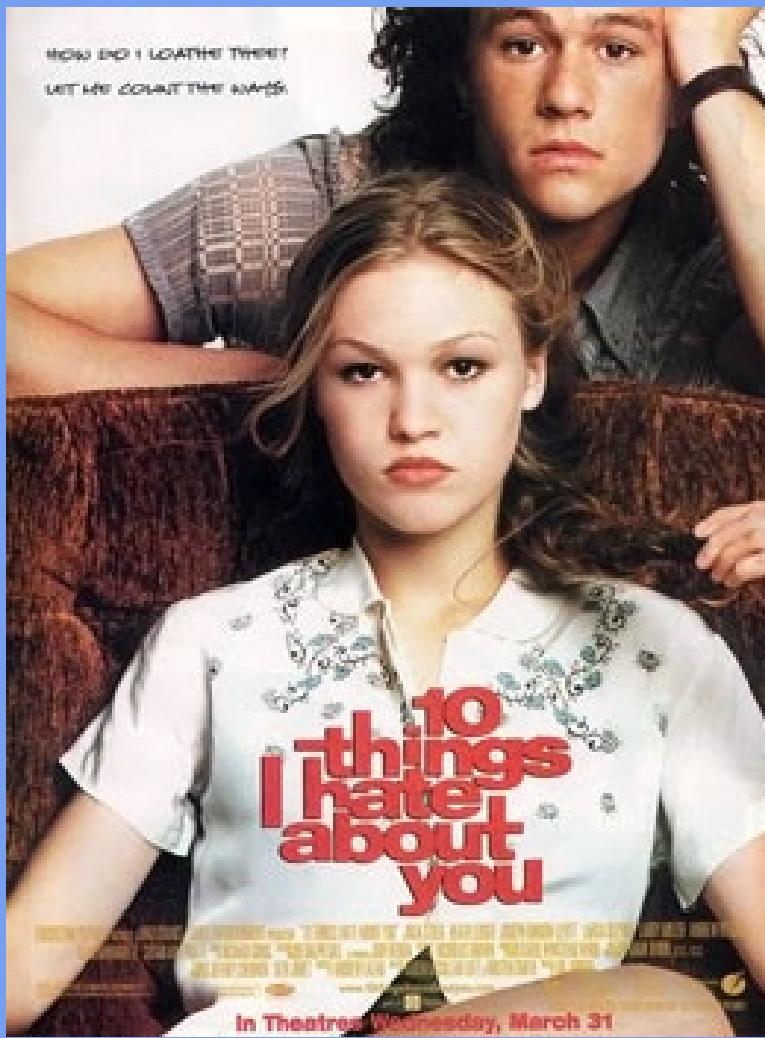


A Toast to Women in Technology



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



CETAD

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
Quotes



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Inspiration
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Chuck
Norris
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Who

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What's the problem?

Who

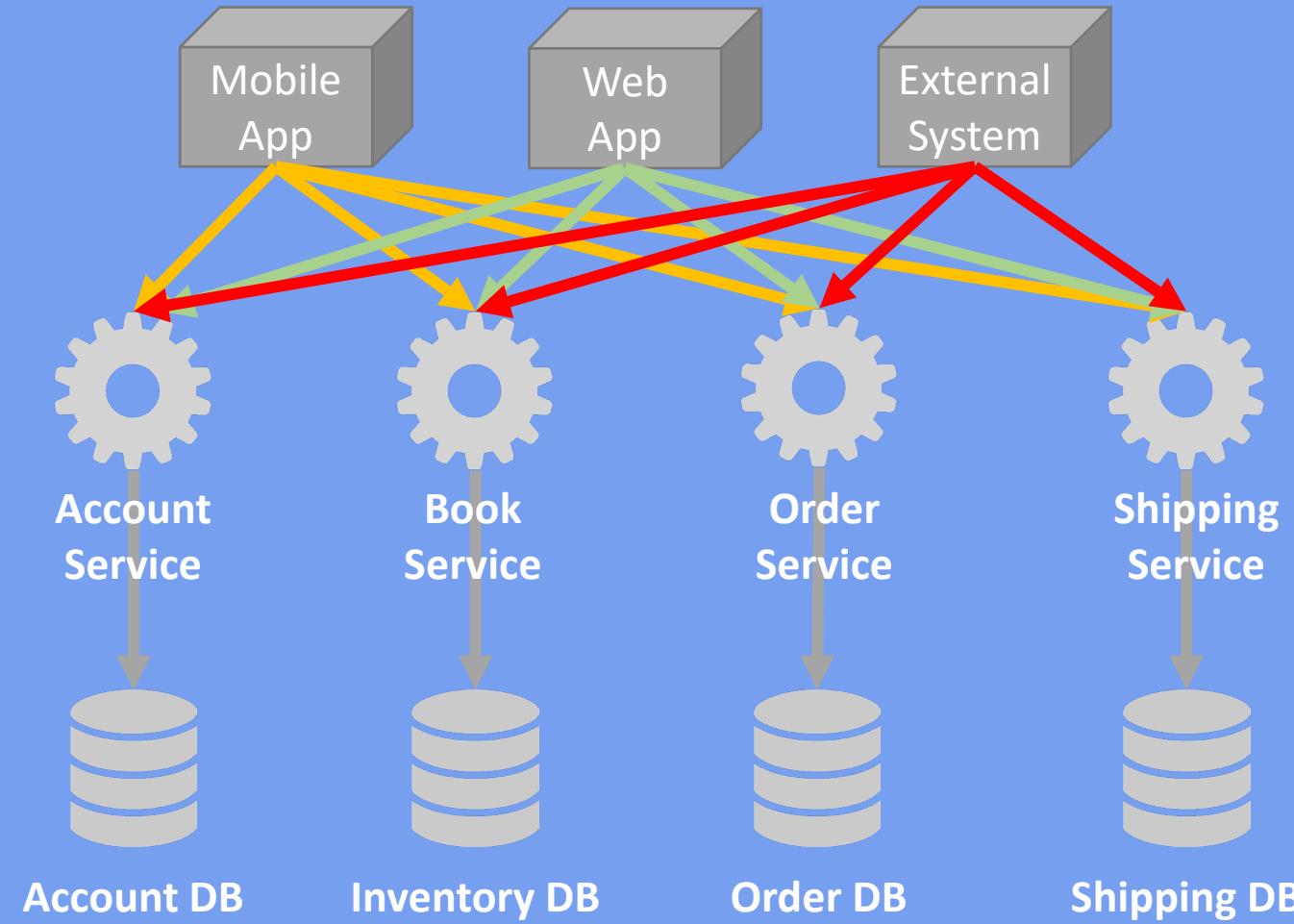
What

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

Data-Driven
Decisions

Security Threat
Protection

API Management Benefits

Data-Driven
Decisions

Security Threat
Protection

Documentation

API Management Benefits

Data-Driven
Decisions

Security Threat
Protection

Documentation

API Management Benefits

Data-Driven
Decisions

Security Threat
Detection

Documentation

Centralized
Visibility

API Management Benefits

Data-Driven
Decisions

Security Threat
Detection

Documentation

Centralized
Visibility

API Management Benefits

Data-Driven
Decisions

Security Threat
Detection

Documentation

Centralized
Visibility

Monetization

API Management Benefits

Data-Driven
Decisions

Security Threat
Detection

Documentation

Centralized
Visibility

Monetization

API Management Benefits

Data-Driven
Decisions

Security Threat
Detection

Documentation

Centralized
Visibility

Monetization

Positive User
Experience

API Management Benefits

Data-Driven
Decisions

Security Threat
Detection

Documentation

Centralized
Visibility

Monetization

Positive User
Experience

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

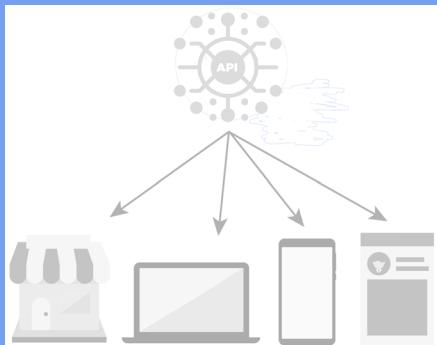
Agile Ecosystem

Optimized Value

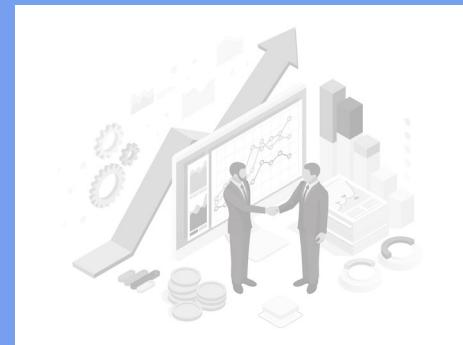
API Management Use Cases



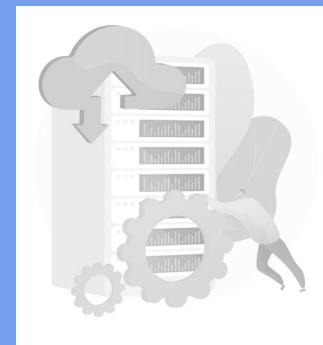
API Integration



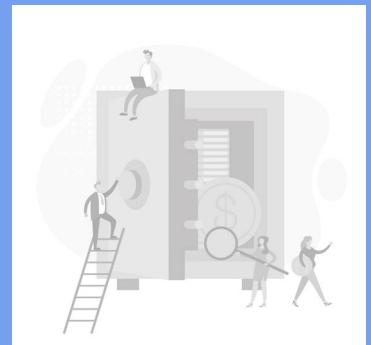
Multi-Channel
User Experiences



B2B Integration



Data as a Service



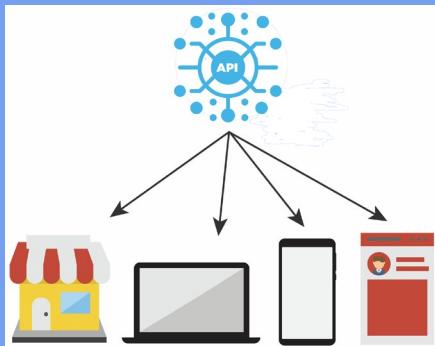
Unlocking
Legacy Assets

API Integration

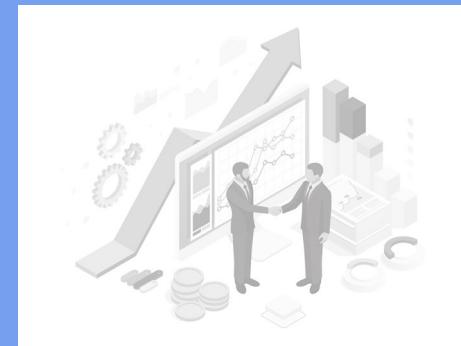
API Management Use Cases



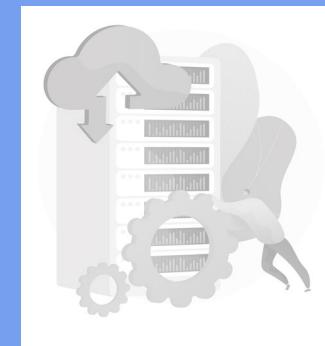
API Integration



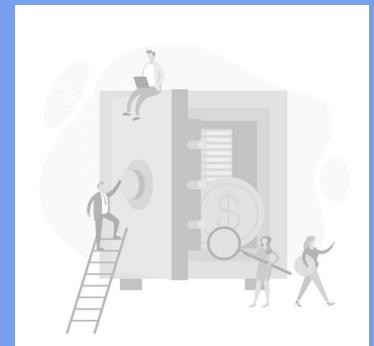
Multi-Channel
User Experiences



B2B Integration



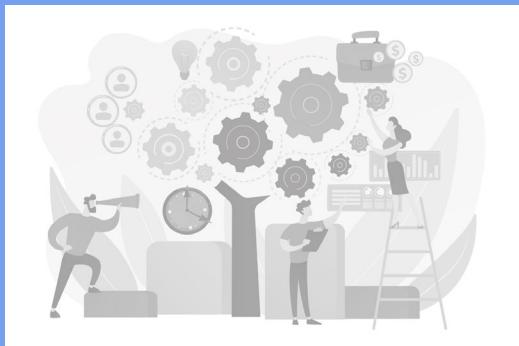
Data as a Service



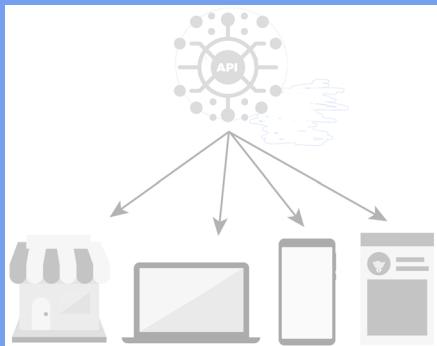
Unlocking
Legacy Assets

Multi-Channel User Experiences

API Management Use Cases



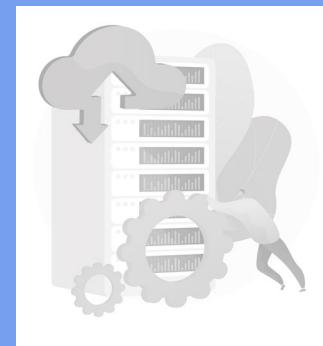
API Integration



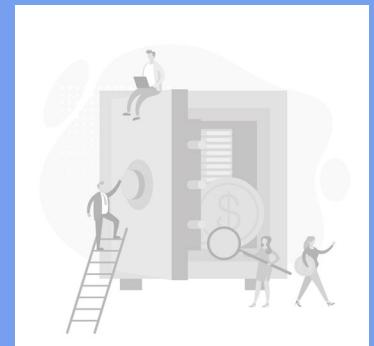
Multi-Channel
User Experiences



B2B Integration



Data as a Service



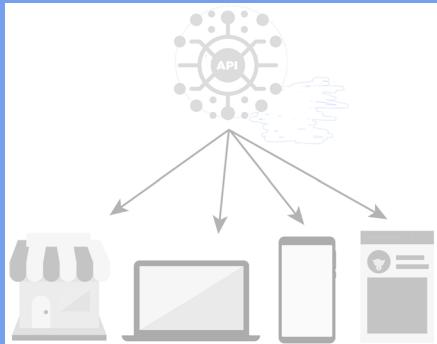
Unlocking
Legacy Assets

B2B Integration

API Management Use Cases



API Integration



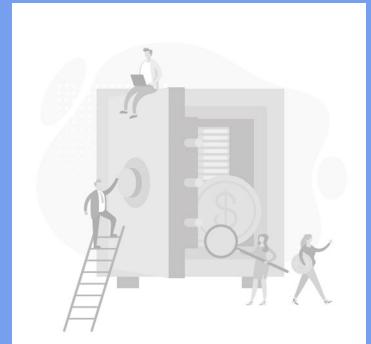
Multi-Channel
User Experiences



B2B Integration



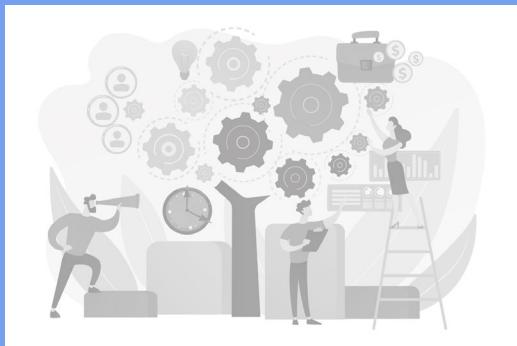
Data as a Service



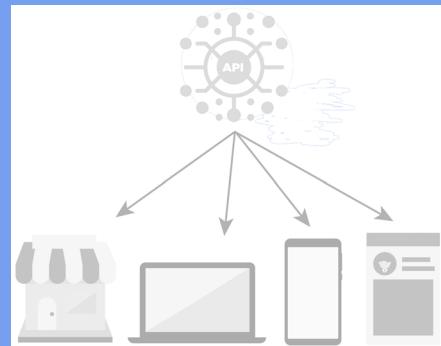
Unlocking
Legacy Assets

Data as a Service

API Management Use Cases



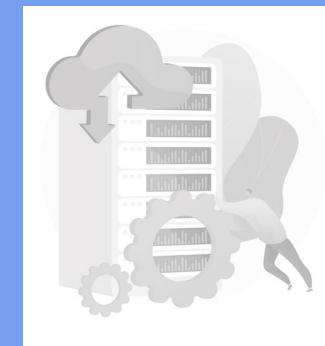
API Integration



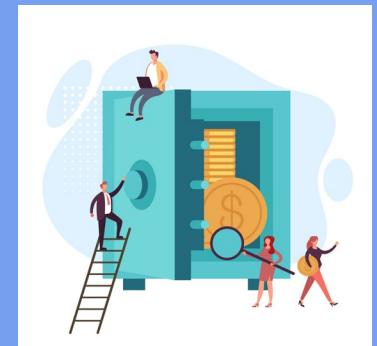
Multi-Channel
User Experiences



B2B Integration



Data as a Service



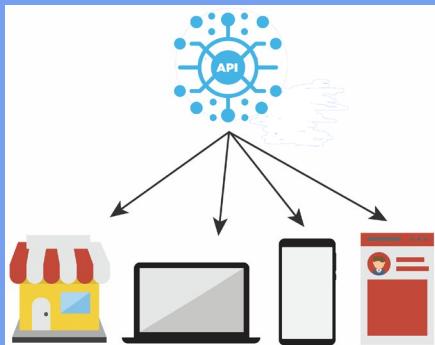
Unlocking
Legacy Assets

Unlocking Legacy Assets

API Management Use Cases



API Integration



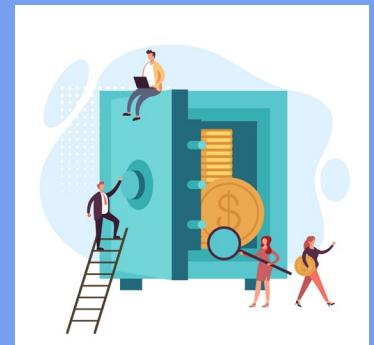
Multi-Channel
User Experiences



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
Analytics

API Management Components

Gateway

Monetization

Developer Portal

Reporting and
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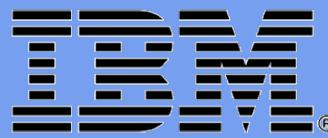
Monetization

API Management Marketplace



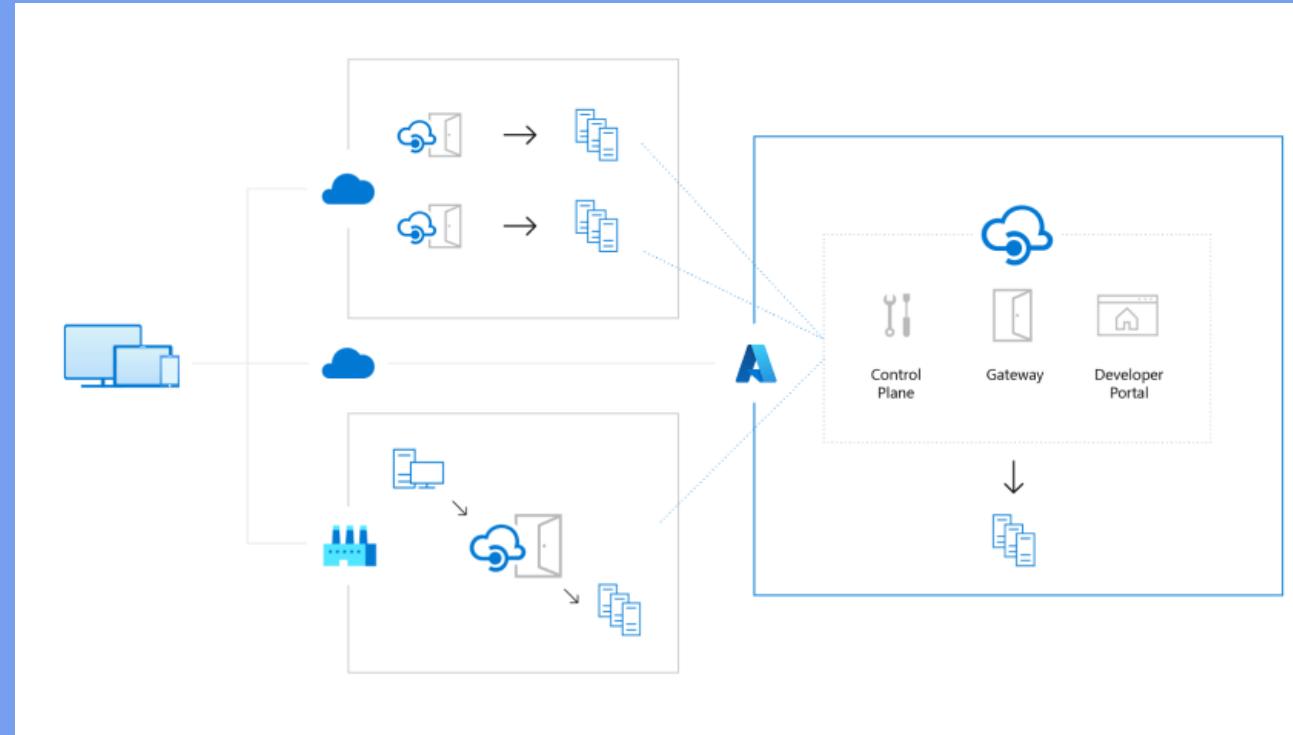
There's small choice
in rotten apples

API Management Offerings



Azure API Management

Manage APIs across clouds and on-premises



Azure API Management

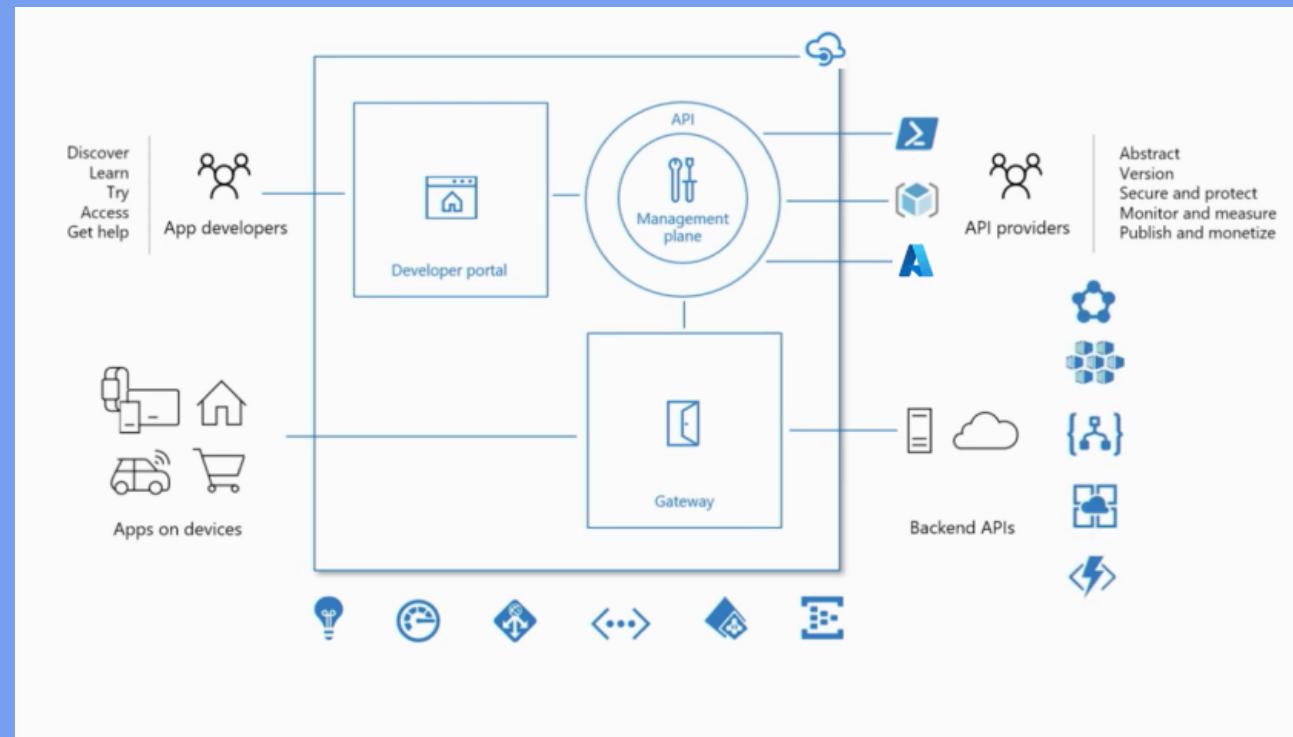
Help protect your resources

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 contains six policy cards:

- 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". It contains a brief description: "A demonstration of a GET call on a sample resource. It is handled by an 'echo' base and the response body are being returned as received." Below this, there are two tabs: "Request" and "Response 200". The "Request" tab shows a GET request to "https://mibudz-portal.developer.azure-api.net/echo/resource". To the right of the request tab, there's a detailed view of the request parameters and headers. The "Parameters" section shows "id" with the value "1". The "Headers" section shows "Content-Type" with the value "application/json". At the bottom of the request view, there are tabs for "HTTP", "Curl", "C#", "Java", "JavaScript", and "Python". The "HTTP" tab is currently selected. The "HTTP request" section contains the full HTTP request line: "GET https://api.contoso.com/echo/resource?id=1", followed by the header "Content-Type: application/json", and the trace identifier "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 the organization name "contoso". The main area displays the "Echo API" with a list of operations:

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

Below the operations, there's a section titled "Retrieve resource" with a description: "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." It shows a "Request" tab and a "Response 200" tab. The "Request" tab contains a URL: `GET https://mibudz-portal.developer.azure-api.net/echo/resource`. To the right, there's a detailed view of the API operation:

Echo API / Original / Retrieve resource

GET /resource

Parameters

id	1
----	---

Headers

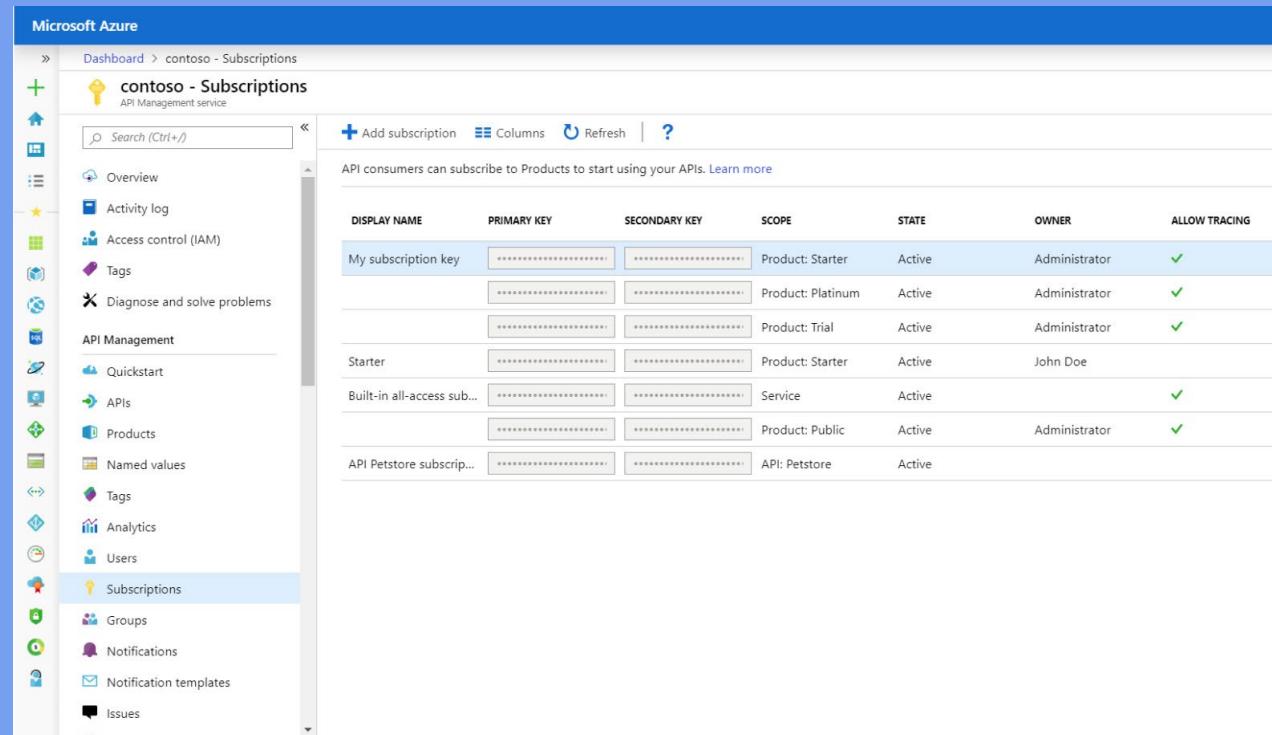
Content-Type	application/json
--------------	------------------

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

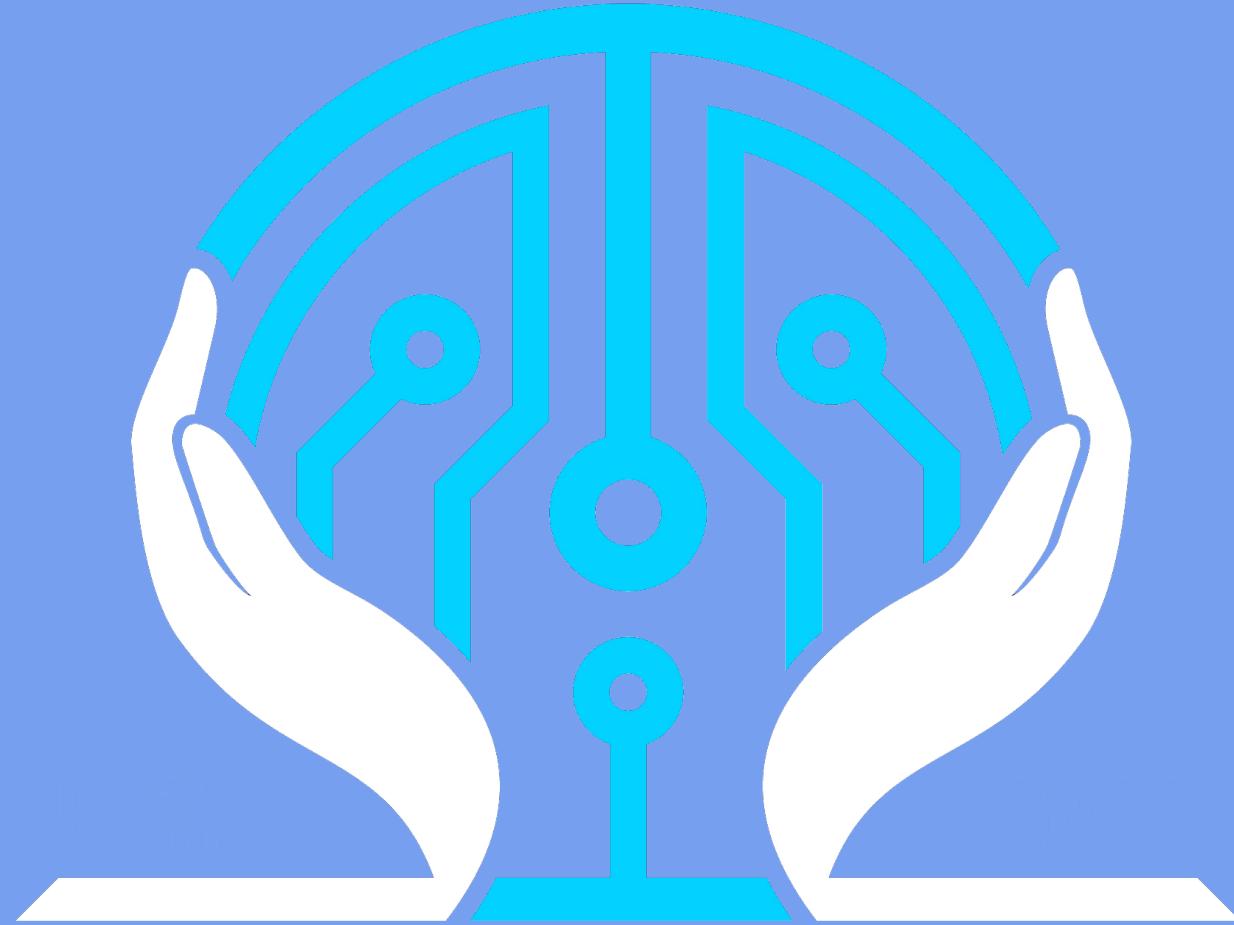
Tiers & Pricing

	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



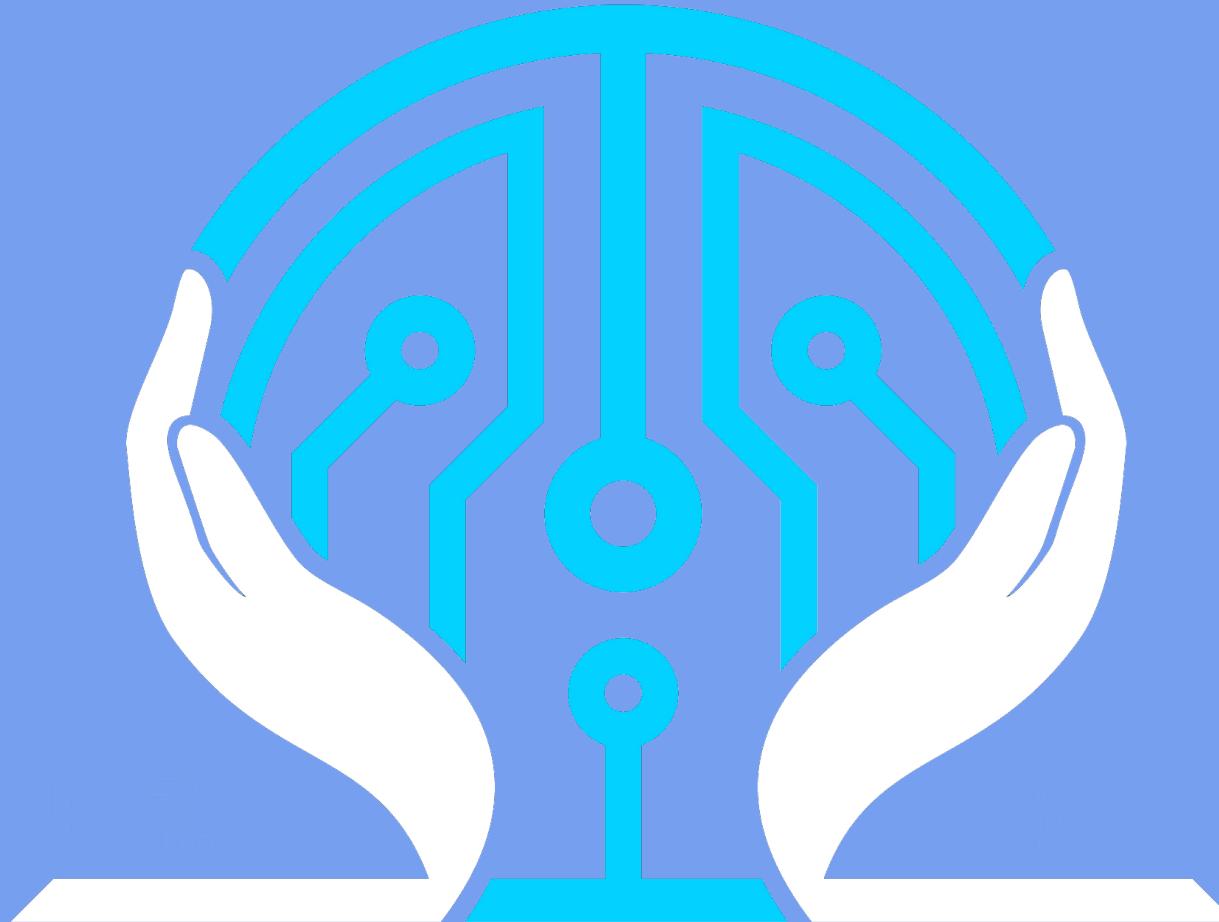
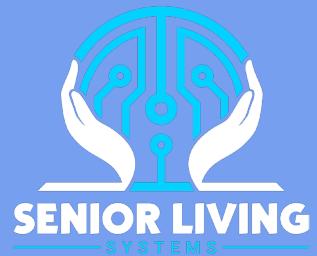
‘Tis hatched, and shall be so.

API Management Demonstration



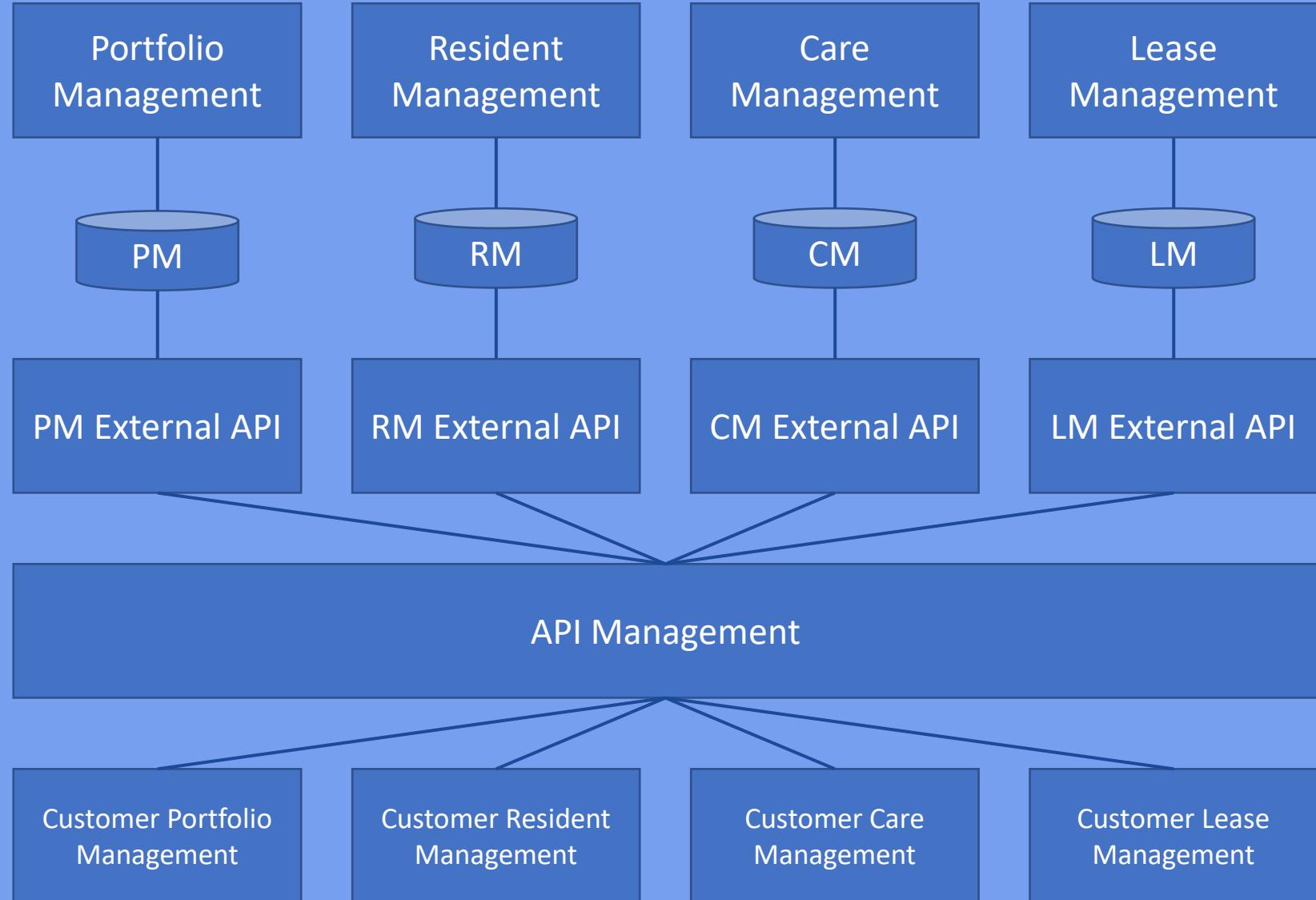
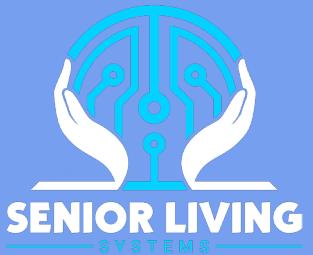
SENIOR LIVING

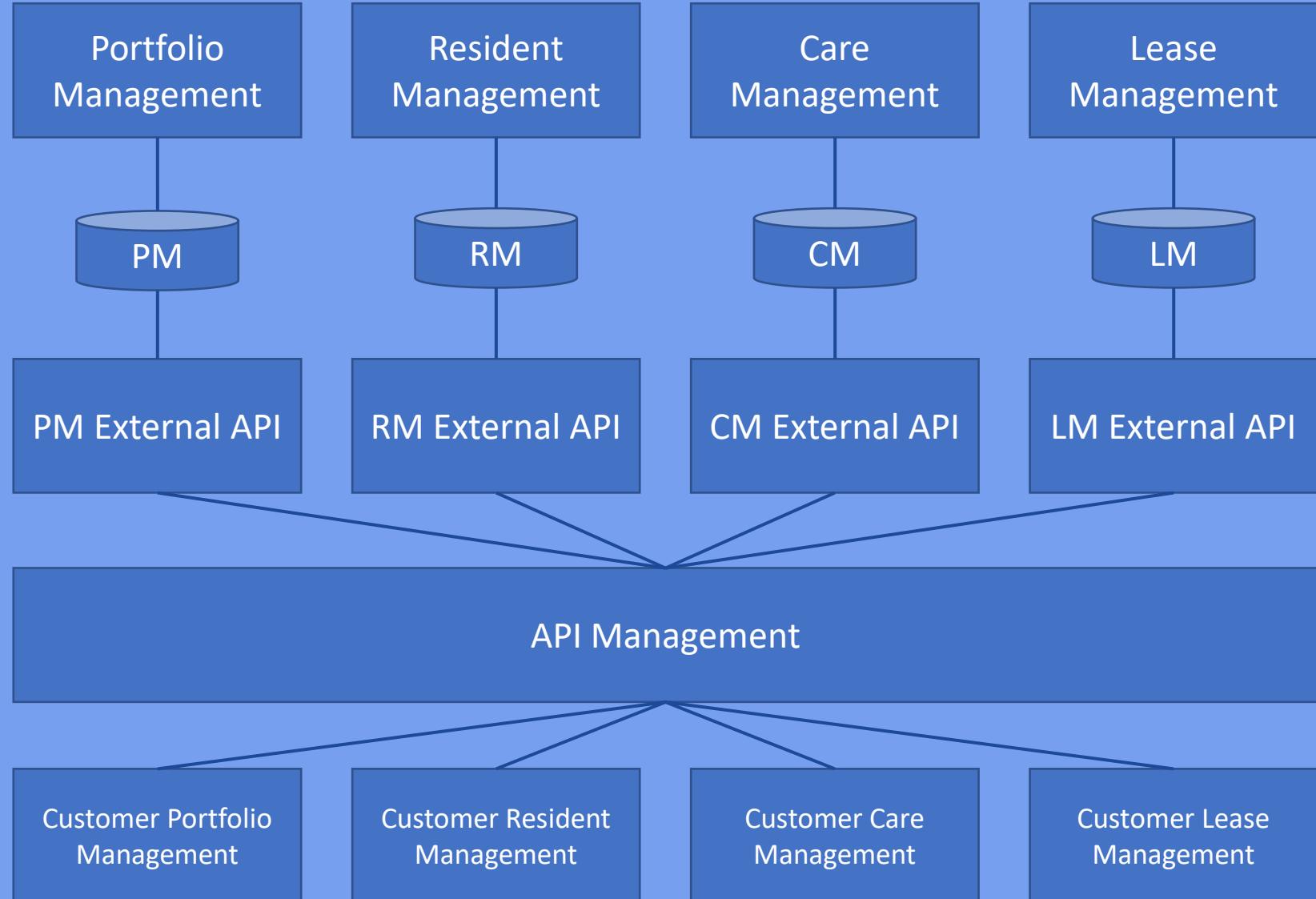
S Y S T E M S

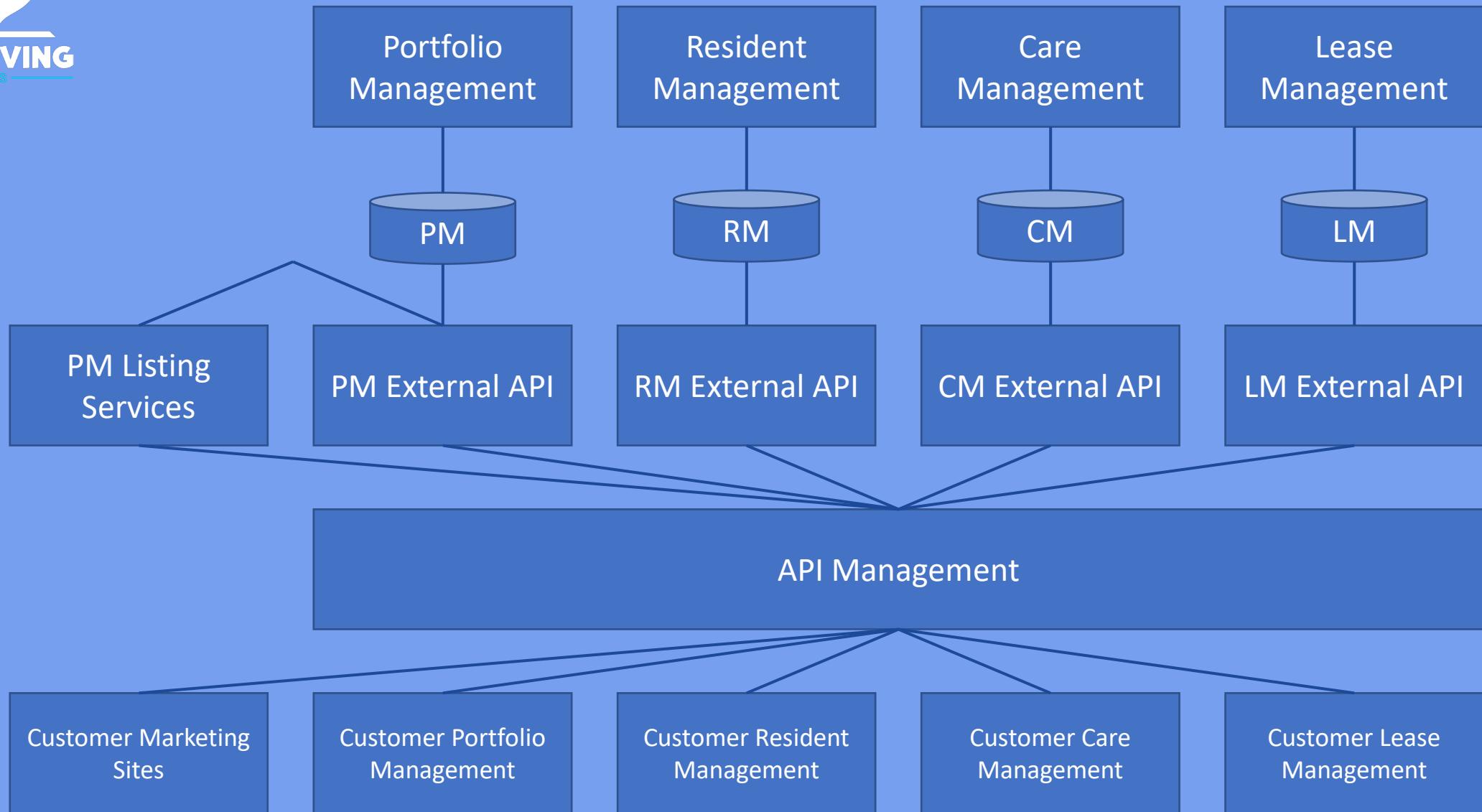
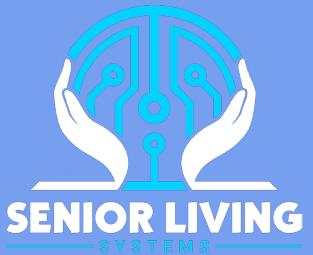


SENIOR LIVING

SYSTEMS









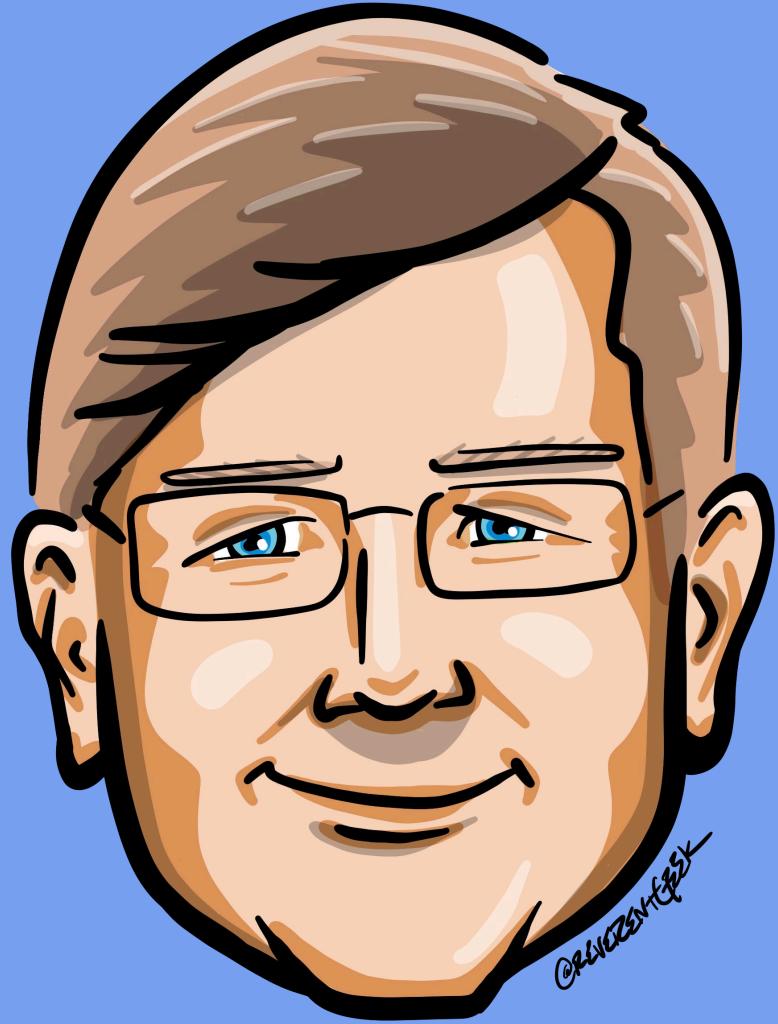
The Taming of the API



Better once than
never, for never
too late.

Questions?

- ✉ chadgreen@chadgreen.com
- 💬 TaleLearnCode
- 🌐 ChadGreen.com
- 🐦 ChadGreen & TaleLearnCode
- linkedin ChadwickEGreen





Thank you!