Module 8: Making APIs Discoverable

Goal

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At the end of this module, you should be able to

MuleSoft

- Publish API specifications and fragments to Anypoint Exchange for discovery
- Create API portals for learning about and testing APIs in Anypoint Exchange
- Customize public portals with themes
- Create a sample use case with API Notebook inside API portals
- Gather feedback from API consumers

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Discovering APIs using Anypoint Exchange

Introducing Anypoint Exchange

MuleSoft

- Anypoint Exchange is at the core of the Center for enablement concept
- It is a place where all the assets are published for self-service and reuse by different parts of the organization
  - Each asset is a Maven artifact that can be versioned
- Exchange can house how-to and best practices documentation, API specifications (OAS and RAML), API fragments, templates, connectors, example, directory for API definitions, fragments, templates, connectors and examples
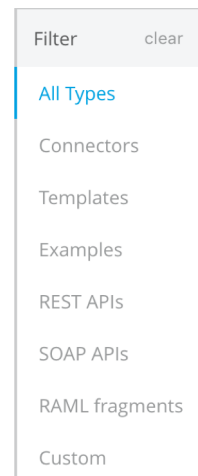
All contents © MuleSoft Inc.

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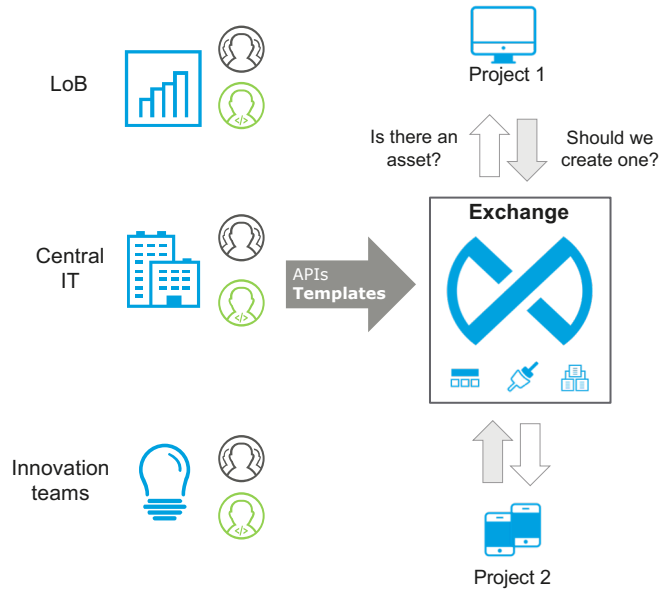## What does (and should) Exchange contain?

MuleSoft

- MuleSoft-provided **public** assets available in all accounts to all users
  - You can work with MuleSoft to get connectors you build certified & added

- **Private** content only available to people in your org
  - Assets added by anyone in your org are added to your private Exchange

- Your organization should populate it to contain everything you need to build your integration projects
  - Including diagrams, videos, links, and more

Filter   clear

All Types

Connectors

Templates

Examples

REST APIs

SOAP APIs

RAML fragments

Custom

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Using Exchange: Success of C4E in action

LoB

Project 1

Is there an asset?

Should we create one?

Exchange

APIs **Templates**

Central IT

Innovation teams

Project 2

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Walkthrough 8-1: Publish a RAML API fragment to Anypoint Exchange

- Create an API Fragment project in Design Center
- Publish an API Fragment to Anypoint Exchange
- Consume the fragment from Anypoint Exchange

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Discovering APIs using Exchange Portals

## Introducing portals for REST APIs in Exchange

MuleSoft

- **Portals** are automatically created for REST APIs published in Exchange

- An API portal has
  - An **API console** that provides a Postman-like experience for consuming and testing APIs
  - An **automatically generated API endpoint** that uses a **mocking service** to allow the API to be tested without having to implement it

- Exchange portals can be shared with both internal and external users

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Customizing portals in Anypoint Exchange

MuleSoft

- After publishing an asset, you can add descriptions, tags, videos, links, and more
  - Text is written in GitHub flavored markdown
    https://help.github.com/categories/writing-on-github/
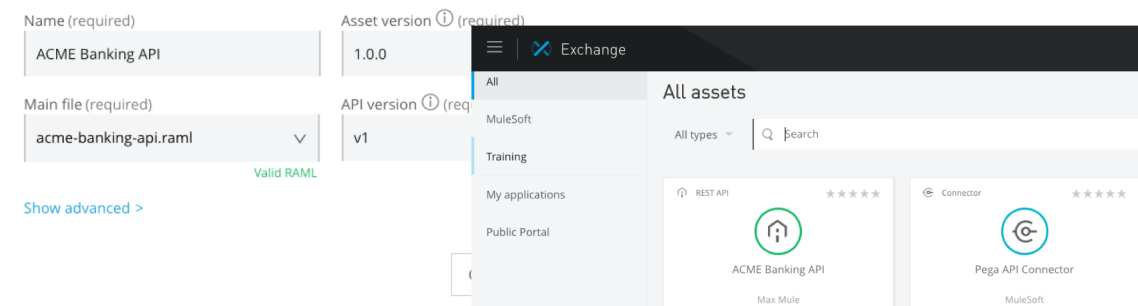- You can also add additional pages and terms and conditions
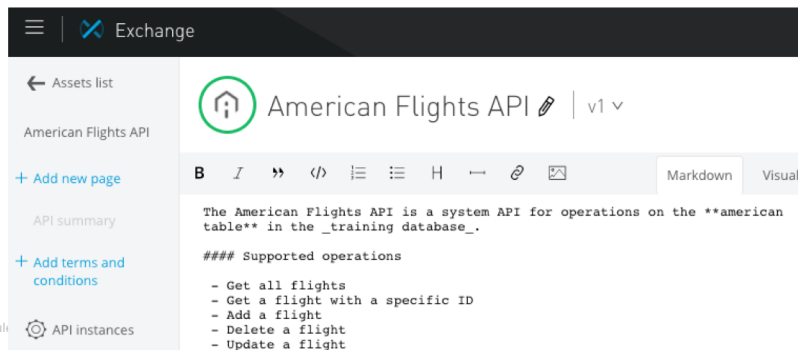
Walkthrough 8-2: Publish a RAML API specification to Anypoint Exchange

MuleSoft

- Publish a RAML API Specification to Anypoint Exchange
- Add documentation to an asset in API portal
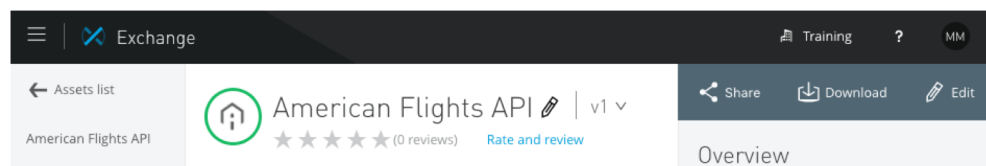- Publish and view the API portal
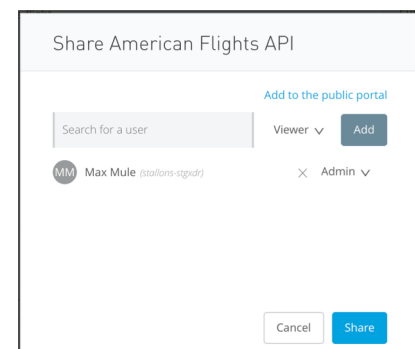
Sharing Exchange portals

Sharing API portals

- You can share an API in Exchange with other internal or external users

- Share an API within an org through the private Exchange
- Share an API with external users in a public portal that you create from Exchange

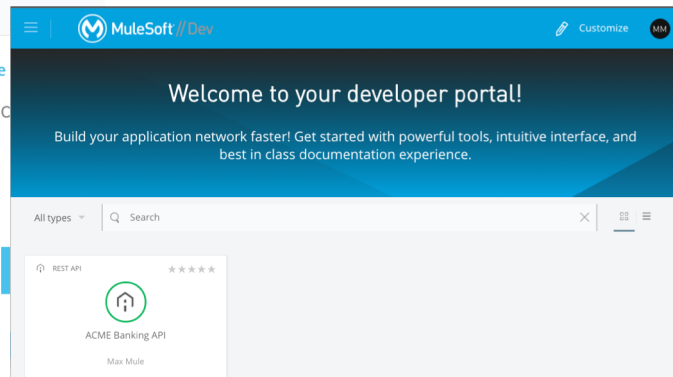## Walkthrough 8-3: Add an API specification to the public portal

- Add an API asset in the public portal
- Define a color scheme for the public portal
- Publish and view the resulting portal

Share ACME Banking API

Share

Select API versions to share in the public
You can manage instance visibility in API instances

☑ v1

Cancel

Welcome to your developer portal!

Build your application network faster! Get started with powerful tools, intuitive interface, and best in class documentation experience.

All types   Search

REST API   ★★★★★

ACME Banking API

Max Mule

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Creating API Notebooks

Creating an API Notebook

MuleSoft

- API Notebook is a web based tool to build interactive tutorials and use cases in JavaScript
- API Notebook can generate an API client based on a RAML API definition
  - The API client can call an API endpoint on a real server or a mocking server
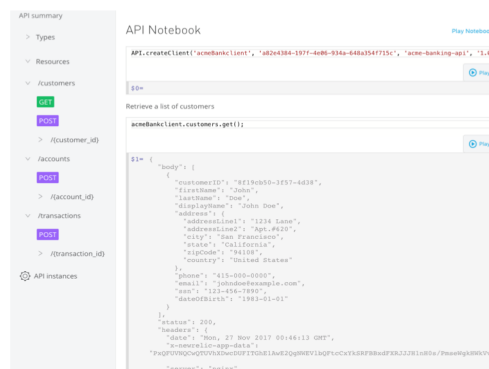- Helps creates a scenario/story by stringing together multiple API calls

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Walkthrough 8-4: Create a sample use case with API Notebook inside the API portal
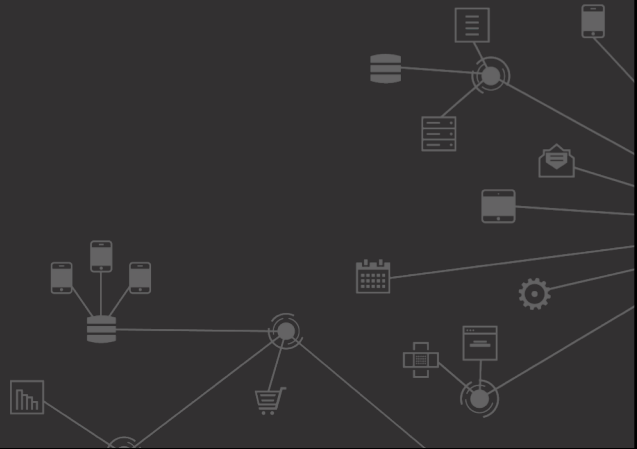
MuleSoft

- Add an API Notebook in the API portal
- Perform string manipulation on datatypes
- Create and use JavaScript functions inside API Notebook
- Publish the API Notebook page in the API portal

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Summary

Summary

- Exchange portals allow you to quickly rapidly share your API designs
- Portals contains several pages to help API consumers to learn about the API
- API Notebook is a component in the API portal that makes JavaScript calls to API endpoints
- Publish your API definitions on the Exchange to allow other people to discover your APIs and provide feedback (can be made public to users outside your business organization)