

Powerful Devs

CONFERENCE

Enable millions of low code developers by building custom connectors



Introduction



Nitya Narasimhan, PhD
Senior Cloud Advocate (JS)

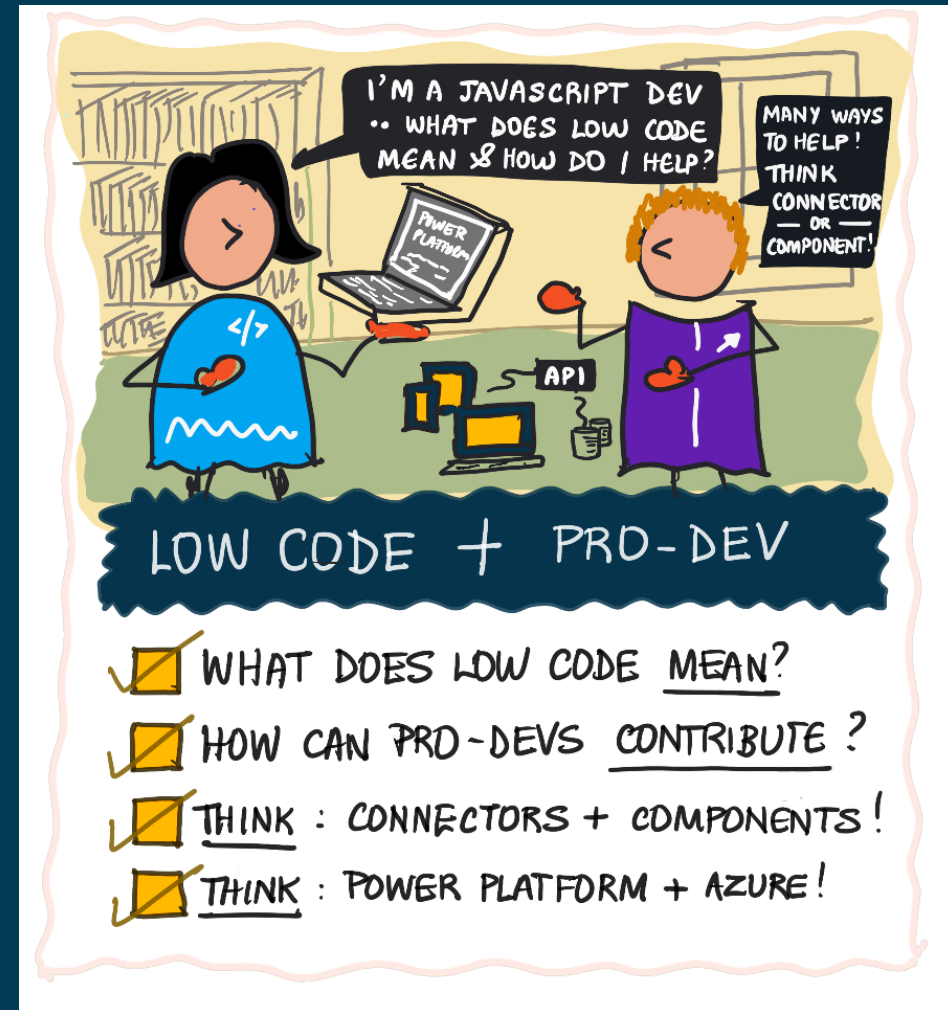


Daniel Laskewitz
Senior Cloud Advocate (Power Platform)



Agenda

- Introduction
- Scenario
- Connectors
 - Types of connectors
 - Demo: Custom Connectors
 - Independent Publisher Connectors
- Building the front-end
 - Creator kit
 - Demo: Power App
- Resources



Scenario

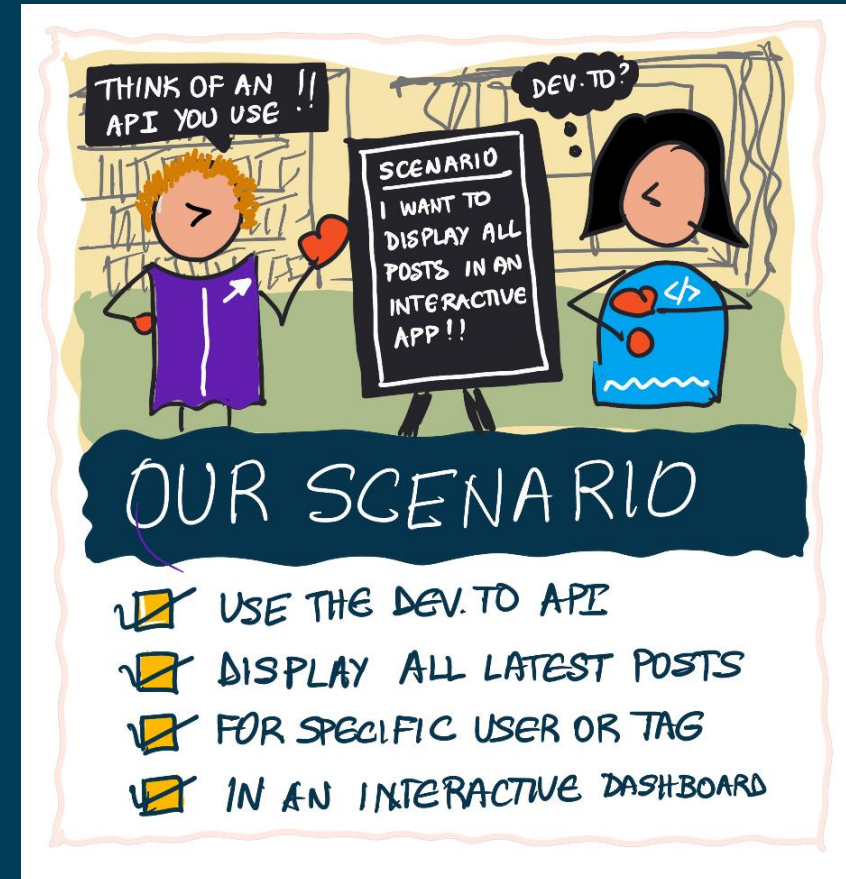


I want to

- Use the **dev.to API** to get their data
- Display the **latest posts** made by a user, organization, or tag, of interest in an app



Let's wrap the API in a **custom connector** and view it in a Power App.



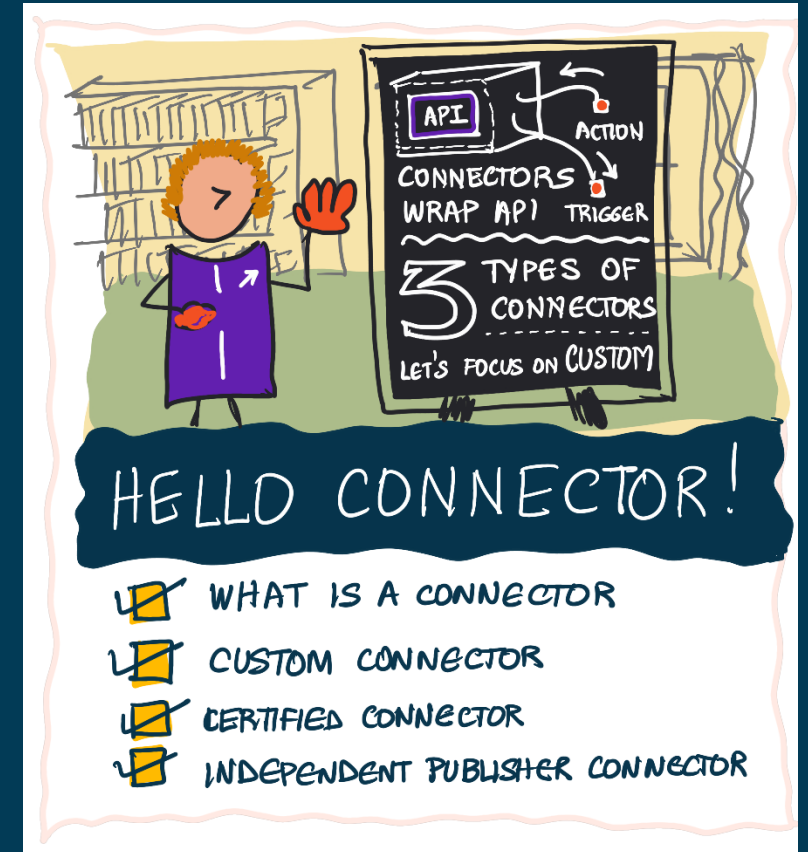
Connectors

- A Power Platform connector is a wrapper around an API that allows you talk to Microsoft Power Automate, Microsoft Power Apps, and Azure Logic Apps
- In the Power Platform there are already 900+ OOTB connectors available
- If a connector is not available, you can build a custom connector
- You can build your own custom connectors (based on OpenAPI v2)

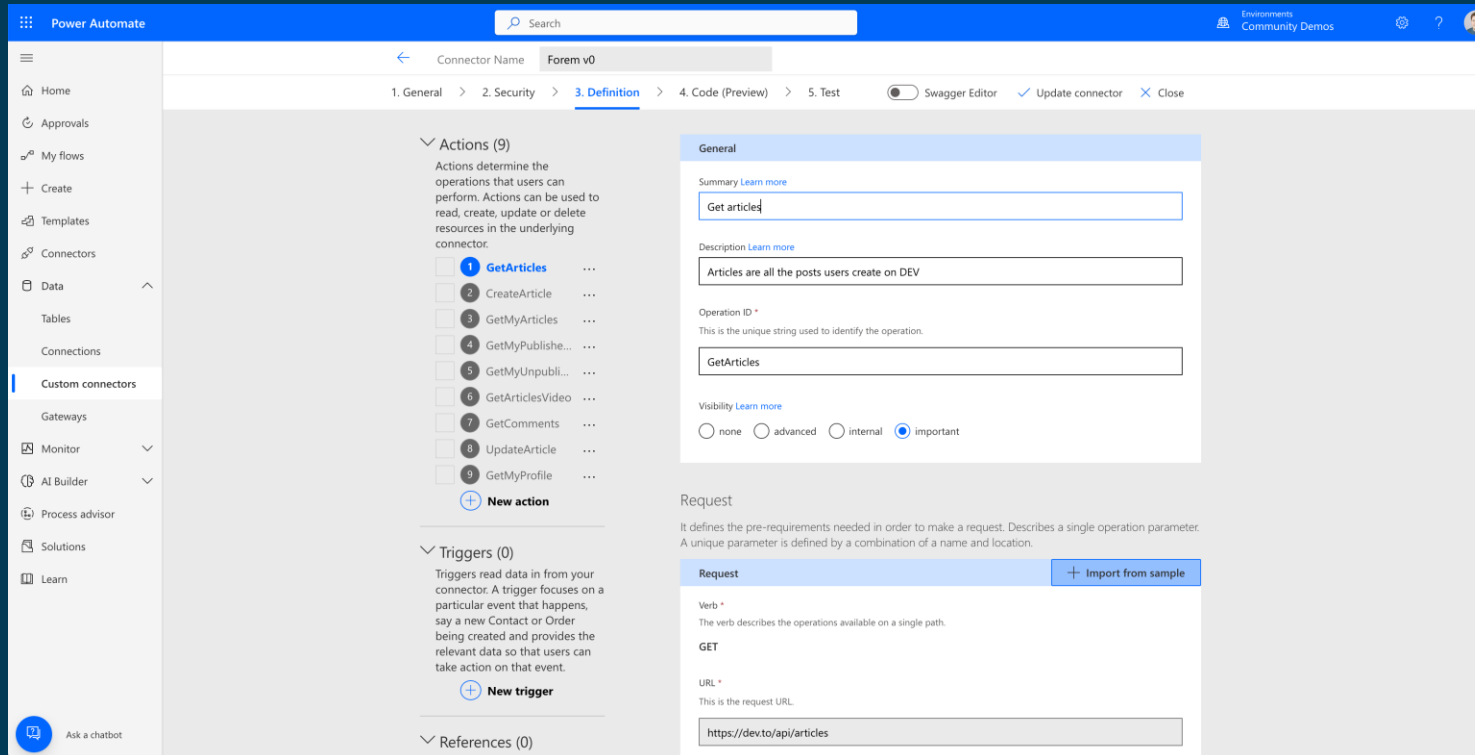


Types of Connectors

- Custom Connector
 - Available in one Power Platform environment in your company tenant
 - Has to be deployed through a solution by using ALM or manually
- Certified Connector
 - Available in all Power Platform & Logic Apps environments around the world (unless the admin blocks it)
 - No need to deploy, Microsoft will do that automatically
 - You must work for the company that owns the API
- Independent Publisher Connector
 - The same as certified connectors, but with one big difference:
 - You don't have to work for the company that owns the API!



Demo: Custom Connectors



The screenshot shows the 'Definition' tab of a custom connector named 'Forem v0'. The interface includes a left sidebar with navigation options like Home, Approvals, My flows, Create, Templates, Connectors, Data, Tables, Connections, Custom connectors, Gateways, Monitor, AI Builder, Process advisor, Solutions, and Learn. The main workspace is divided into three sections: Actions (9), Triggers (0), and References (0). The 'General' tab is active, showing fields for Summary, Description, Operation ID, and Visibility. The 'Request' section is also visible, showing the Request tab with fields for Verb and URL.

Actions (9)

- 1. GetArticles
- 2. CreateArticle
- 3. GetMyArticles
- 4. GetMyPublic...
- 5. GetMyUnpubli...
- 6. GetArticlesVideo
- 7. GetComments
- 8. UpdateArticle
- 9. GetMyProfile

Triggers (0)

References (0)

General

Summary [Learn more](#)

Get articles

Description [Learn more](#)

Articles are all the posts users create on DEV

Operation ID *

This is the unique string used to identify the operation.

GetArticles

Visibility [Learn more](#)

☐ none ☐ advanced ☐ internal ☒ important

Request

Request [+ Import from sample](#)

Verb *

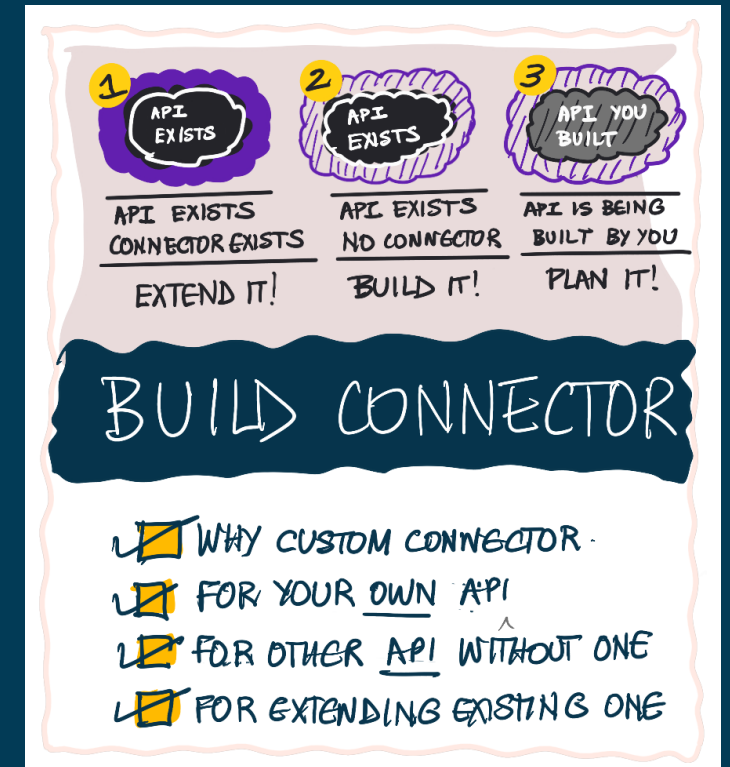
The verb describes the operations available on a single path.

GET

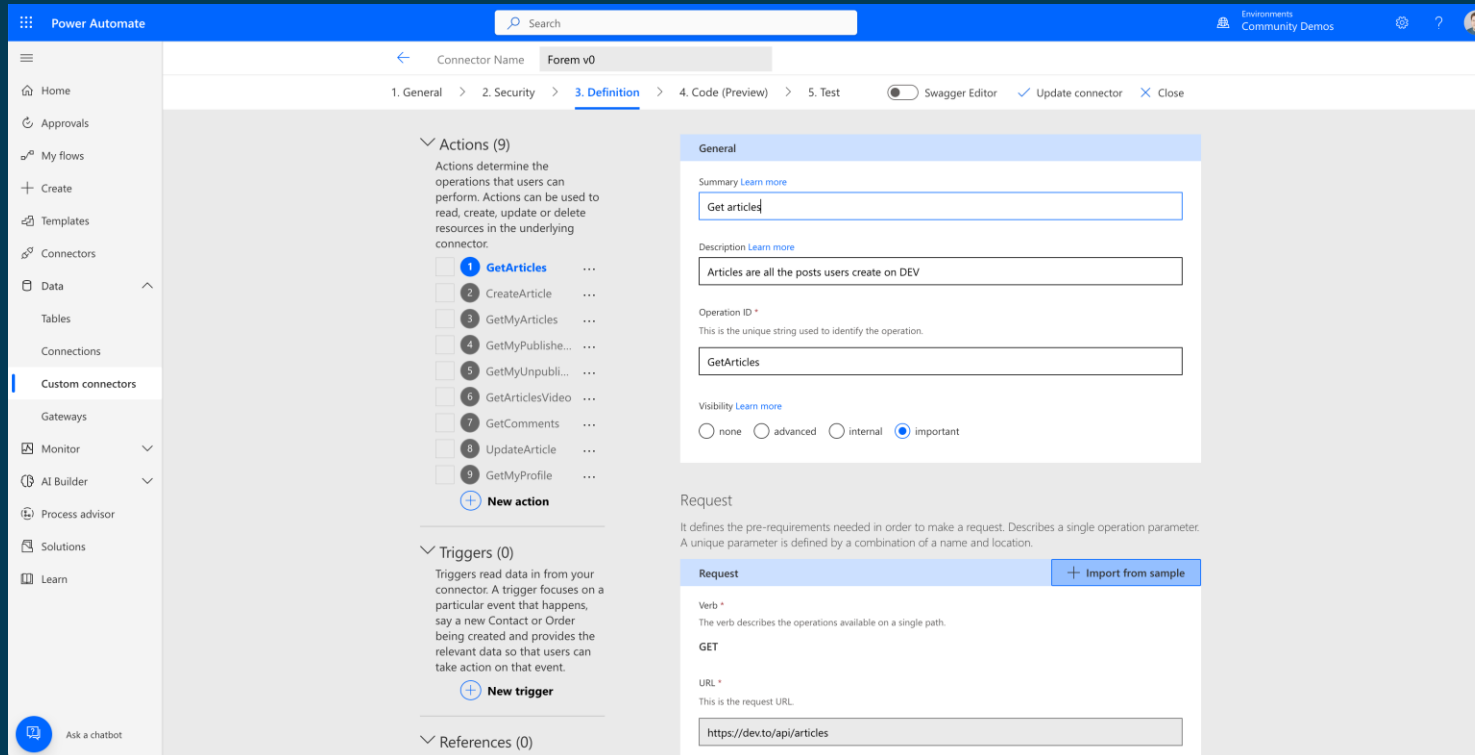
URL *

This is the request URL.

https://devto/api/articles



Demo: Custom Connectors



The screenshot shows the 'Definition' tab of a custom connector named 'Forem v0'. The interface includes a left sidebar with navigation options like Home, Approvals, My flows, Create, Templates, Connectors, Data, Tables, Connections, Custom connectors, Gateways, Monitor, AI Builder, Process advisor, Solutions, and Learn. The main area is divided into sections for Actions, Triggers, and References. The 'General' tab is active, showing fields for Summary, Description, Operation ID, and Visibility. The 'Request' section is also visible, showing the verb 'GET' and the URL 'https://devto/api/articles'.

Power Automate Search

Connector Name: **Forem v0**

1. General > 2. Security > **3. Definition** > 4. Code (Preview) > 5. Test

Swagger Editor Update connector Close

Actions (9)
Actions determine the operations that users can perform. Actions can be used to read, create, update or delete resources in the underlying connector.

- 1. GetArticles ...
- 2. CreateArticle ...
- 3. GetMyArticles ...
- 4. GetMyPublic... ..
- 5. GetMyUnpubli... ..
- 6. GetArticlesVideo ...
- 7. GetComments ...
- 8. UpdateArticle ...
- 9. GetMyProfile ...

+ New action

Triggers (0)
Triggers read data in from your connector. A trigger focuses on a particular event that happens, say a new Contact or Order being created and provides the relevant data so that users can take action on that event.

+ New trigger

References (0)

General

Summary [Learn more](#)
Get articles

Description [Learn more](#)
Articles are all the posts users create on DEV

Operation ID *
This is the unique string used to identify the operation.
GetArticles

Visibility [Learn more](#)
☐ none ☐ advanced ☐ internal ☒ important

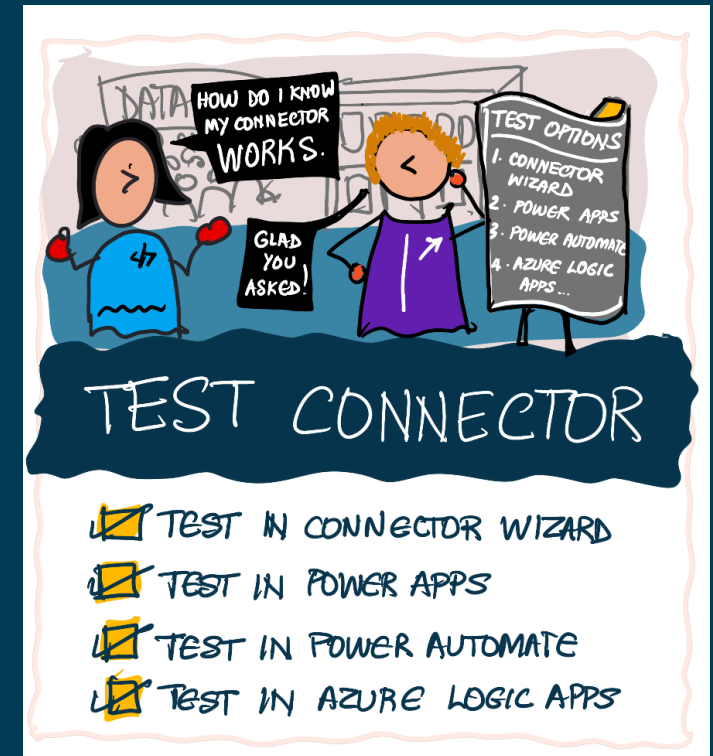
Request

It defines the pre-requirements needed in order to make a request. Describes a single operation parameter. A unique parameter is defined by a combination of a name and location.

Request + Import from sample

Verb *
The verb describes the operations available on a single path.
GET

URL *
This is the request URL.
https://devto/api/articles



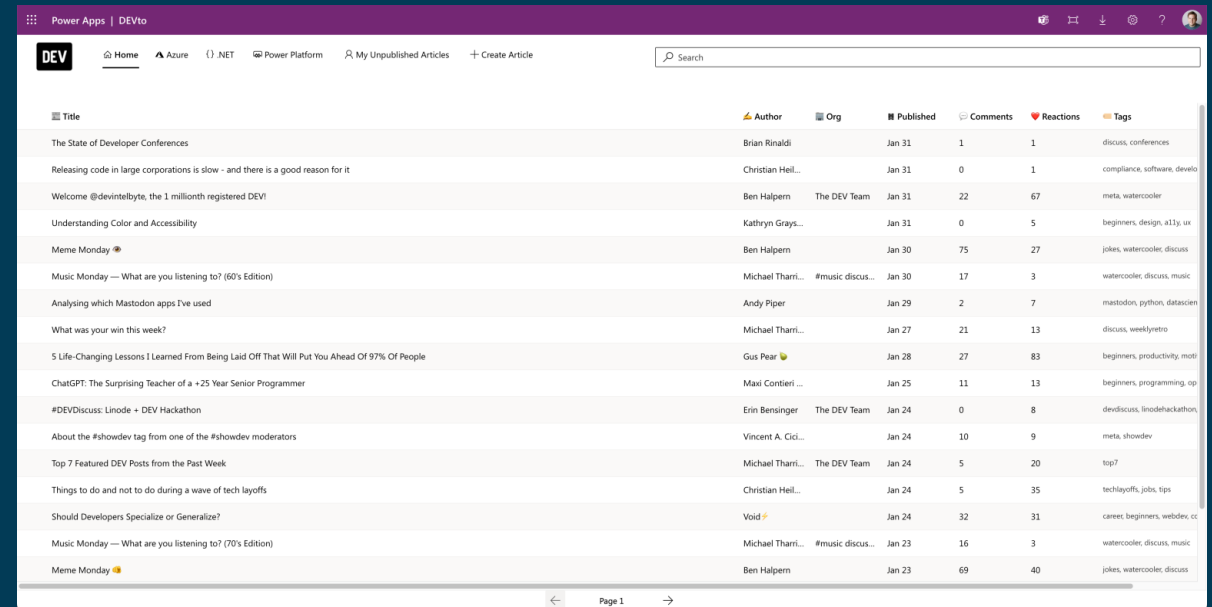
Independent Publisher Connectors – Step by step

1. Before you start building a connector, make sure your connector doesn't exist
2. Share your connector proposal
3. Build the connector
4. Create a title for your connector
5. Write a description
6. Define summaries and descriptions
7. Define exact operation responses
8. Add metadata describing the connector and its end service
9. Prepare the connector artifacts
10. Submit your connector for deployment (~2-4 weeks)
11. Your connector will be submitted for certification (~1-2 weeks)
12. Wait for deployment (~1-2 weeks)



Building the front-end

- Build a Canvas App
- Use components to speed up development
- Use the Custom Connector to connect to DEV.TO

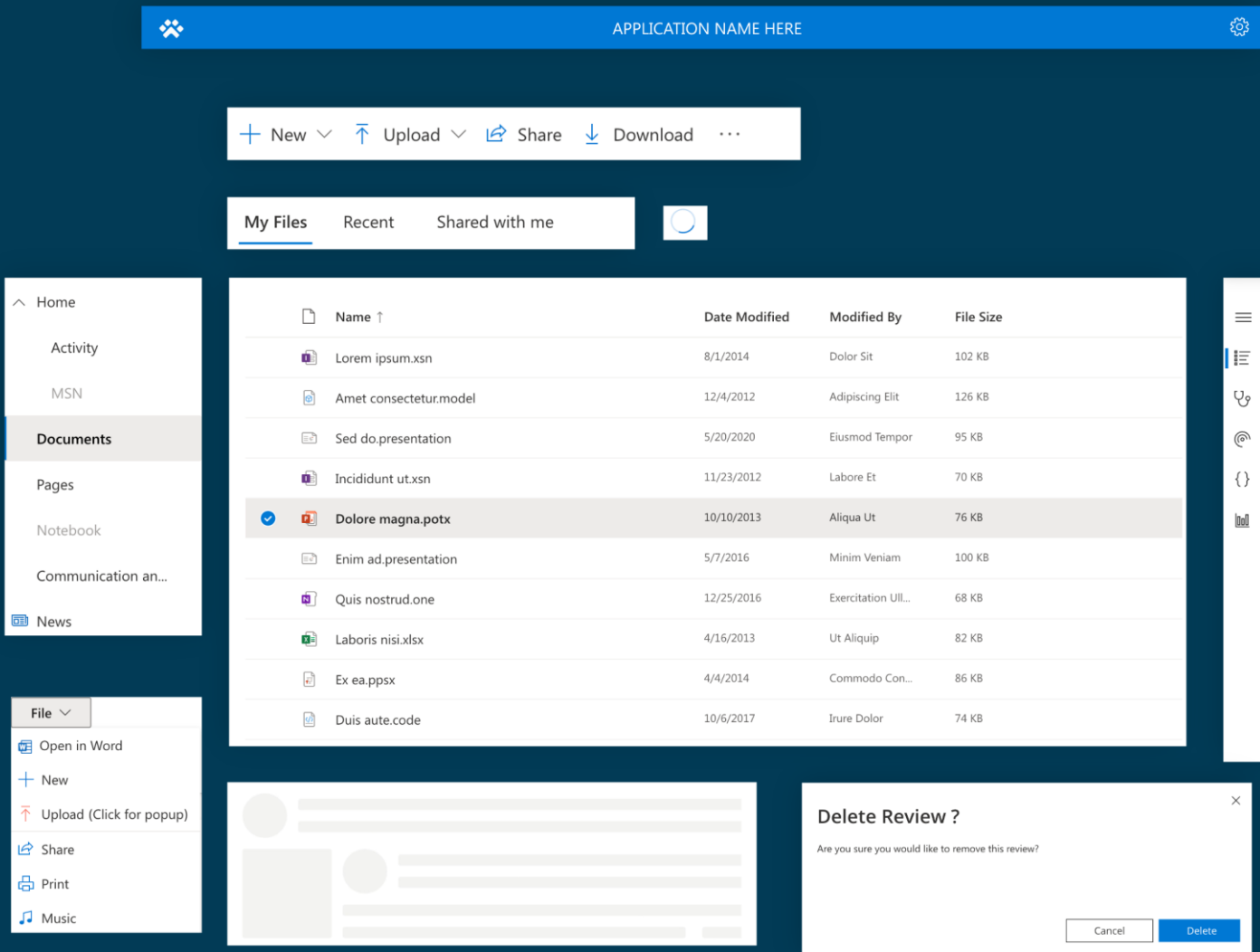


The screenshot shows the DEV.to website interface. At the top, there's a navigation bar with links for Home, Azure, .NET, Power Platform, My Unpublished Articles, and a Create Article button. A search bar is also present. Below the navigation bar, a table lists various articles. The table has columns for Title, Author, Org, Published, Comments, Reactions, and Tags. The articles listed include 'The State of Developer Conferences', 'Releasing code in large corporations is slow - and there is a good reason for it', 'Welcome @devintelyte, the 1 millionth registered DEV!', 'Understanding Color and Accessibility', 'Meme Monday', 'Music Monday — What are you listening to? (60's Edition)', 'Analysing which Mastodon apps I've used', 'What was your win this week?', '5 Life-Changing Lessons I Learned From Being Laid Off That Will Put You Ahead Of 97% Of People', 'ChatGPT: The Surprising Teacher of a +25 Year Senior Programmer', '#DEVDiscuss: Linode + DEV Hackathon', 'About the #showdev tag from one of the #showdev moderators', 'Top 7 Featured DEV Posts from the Past Week', 'Things to do and not to do during a wave of tech layoffs', 'Should Developers Specialize or Generalize?', 'Music Monday — What are you listening to? (70's Edition)', and 'Meme Monday'.

Title	Author	Org	Published	Comments	Reactions	Tags
The State of Developer Conferences	Brian Rinaldi		Jan 31	1	1	discuss, conferences
Releasing code in large corporations is slow - and there is a good reason for it	Christian Heil...		Jan 31	0	1	compliance, software, develo
Welcome @devintelyte, the 1 millionth registered DEV!	Ben Halpern	The DEV Team	Jan 31	22	67	meta, watercooler
Understanding Color and Accessibility	Kathryn Grays...		Jan 31	0	5	beginners, design, a11y, ux
Meme Monday 🍌	Ben Halpern		Jan 30	75	27	jokes, watercooler, discuss
Music Monday — What are you listening to? (60's Edition)	Michael Tharri...	#music discus...	Jan 30	17	3	watercooler, discuss, music
Analysing which Mastodon apps I've used	Andy Piper		Jan 29	2	7	mastodon, python, datascien
What was your win this week?	Michael Tharri...		Jan 27	21	13	discuss, weeklyretro
5 Life-Changing Lessons I Learned From Being Laid Off That Will Put You Ahead Of 97% Of People	Gus Pear 🍌		Jan 28	27	83	beginners, productivity, moti
ChatGPT: The Surprising Teacher of a +25 Year Senior Programmer	Maxi Contieri ...		Jan 25	11	13	beginners, programming, op
#DEVDiscuss: Linode + DEV Hackathon	Erin Bensinger	The DEV Team	Jan 24	0	8	devdiscuss, linodehackathon
About the #showdev tag from one of the #showdev moderators	Vincent A. Cici...		Jan 24	10	9	meta, showdev
Top 7 Featured DEV Posts from the Past Week	Michael Tharri...	The DEV Team	Jan 24	5	20	top7
Things to do and not to do during a wave of tech layoffs	Christian Heil...		Jan 24	5	35	techlayoffs, jobs, tips
Should Developers Specialize or Generalize?	Void 🍌		Jan 24	32	31	career, beginners, webdev, co
Music Monday — What are you listening to? (70's Edition)	Michael Tharri...	#music discus...	Jan 23	16	3	watercooler, discuss, music
Meme Monday 🍌	Ben Halpern		Jan 23	69	40	jokes, watercooler, discuss



Creator Kit



Demo: Power App

Power Apps | DEVto

DEV Home Azure .NET Power Platform My Unpublished Articles + Create Article Search

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Resources

Connectors

- Custom Connector – Documentation (<https://aka.ms/cc/learn>)
- Custom Connector – Coding standards (<https://aka.ms/cc/coding-standards>)
- Custom Connector – Paconn CLI (<https://aka.ms/cc/paconn>)
- Independent Publisher Connector – certification (<https://aka.ms/pp/ip-certification>)
- Power Platform Connectors – GitHub repo (<https://aka.ms/cc/github>)

Power Apps

- Power Apps – Canvas Apps Documentation (<https://aka.ms/canvas-apps>)
- Creator Kit – Documentation (<https://aka.ms/creatorkit>)

Low Code February

- Low Code February (<https://aka.ms/lowcode-February>)



Thank you!

