



What is a model-driven app?

A brief history

Security & Permissions

Sharing an App

Pages

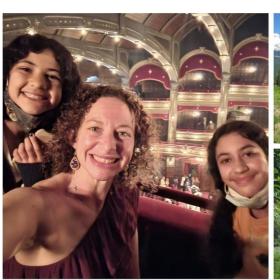
Additional features

Demo

What's coming in the new release wave?

Q&A

Heidi ©









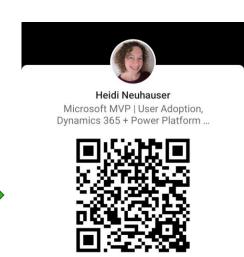


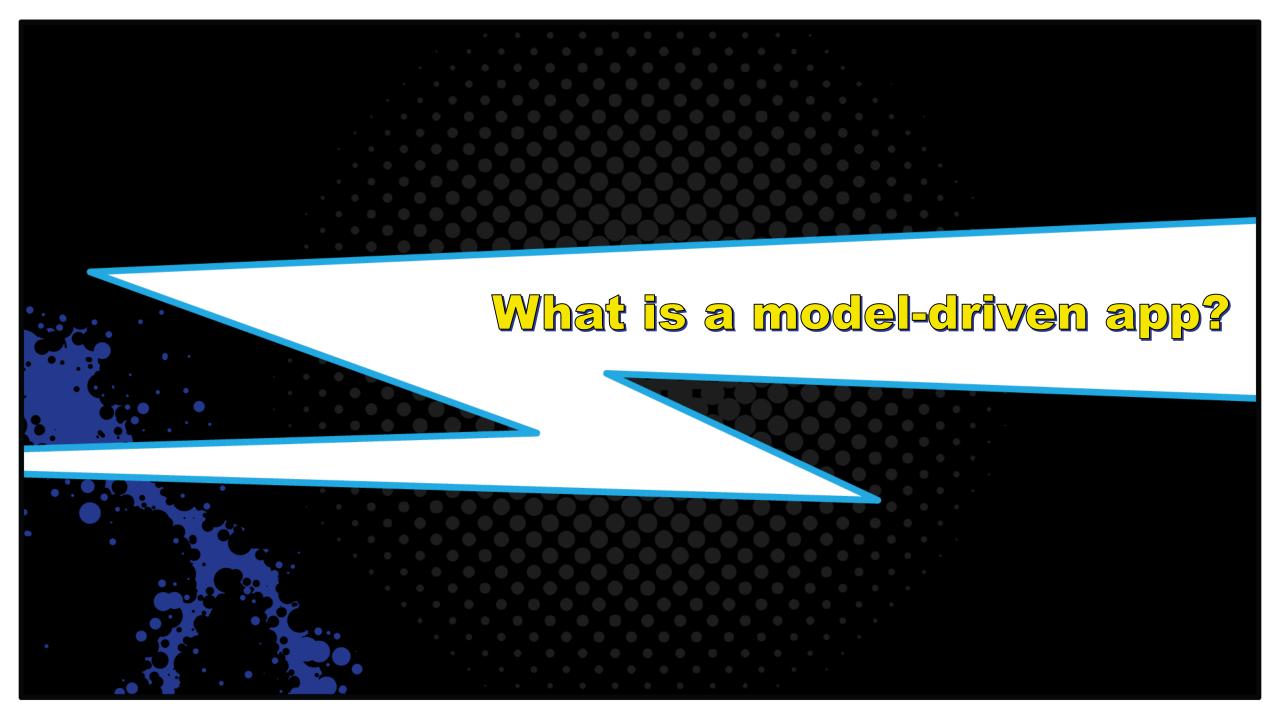


- 12 years loving Microsoft CRM/D365 & Power Platform
- Animal lover (aka I have too many pets, perhaps not enough?)
- I chair the Philadelphia D365 & Power Platform User Group (come join us!)
- Partner at Reenhanced (with my husband, Nick Hance)
- Business Applications MVP



Connect with me on LinkedIn!





What is a model-driven app?

- "model-driven app" → build onto a data model
- Microsoft Dataverse as database
- No-code, low-code
- Limited design capabilities
- Amazing tool for user adoption!!
- Built-in buttons (add new record, email a link, export to Excel, etc)
- Natively responsive & accessible interface



Related: Model-driven app vs canvas app?

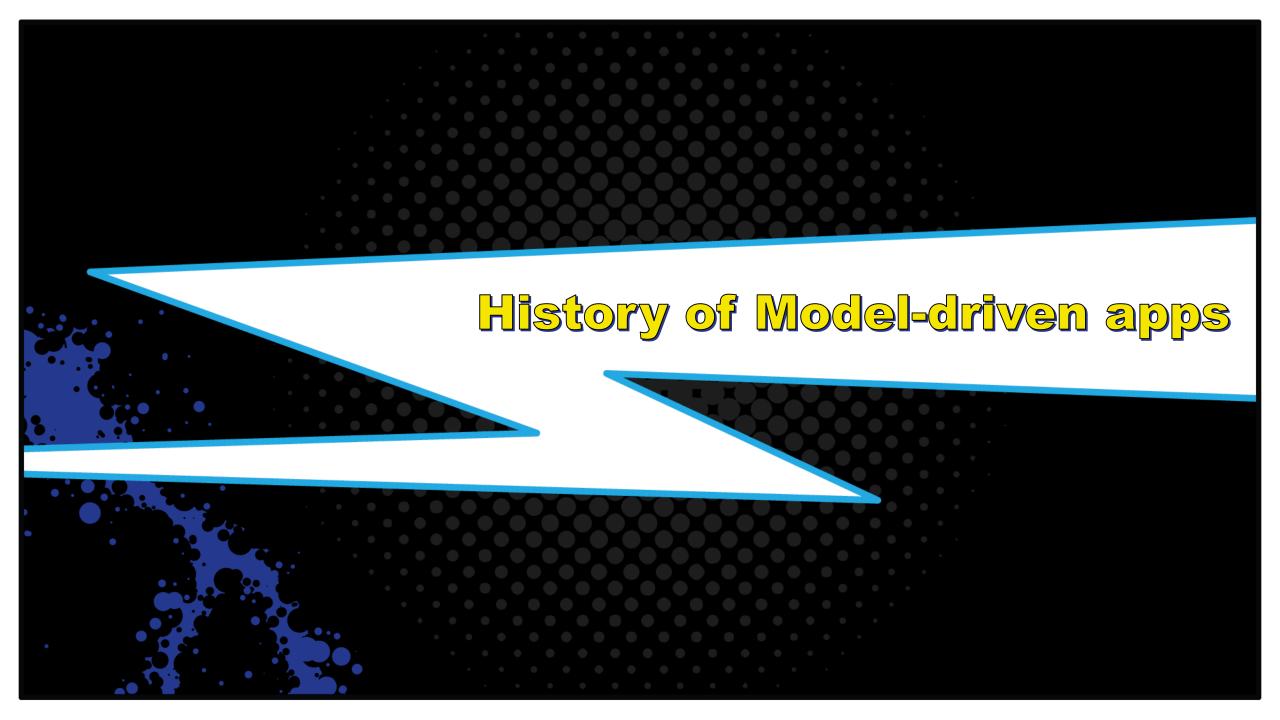
Feature	Canvas App	Model-driven App
Designability	Custom design, controls and components.	Limited to configuration controls.
Database	Many possibilities using Power Automate connectors (SharePoint, Excel, etc)	Dataverse only.
Skill set required	May require more technical knowledge. Complex apps may take longer to build.	Citizen developer. Quick to create.
Responsive	Only responsive when designed in this way. (Public preview in Oct 2022: Custom pages responsive by default – yay!)	All automatically responsive.
Accessibility	Accessibility must be built into canvas apps.	Accessibility features built-in natively.

AHuge Win for User Adoption!

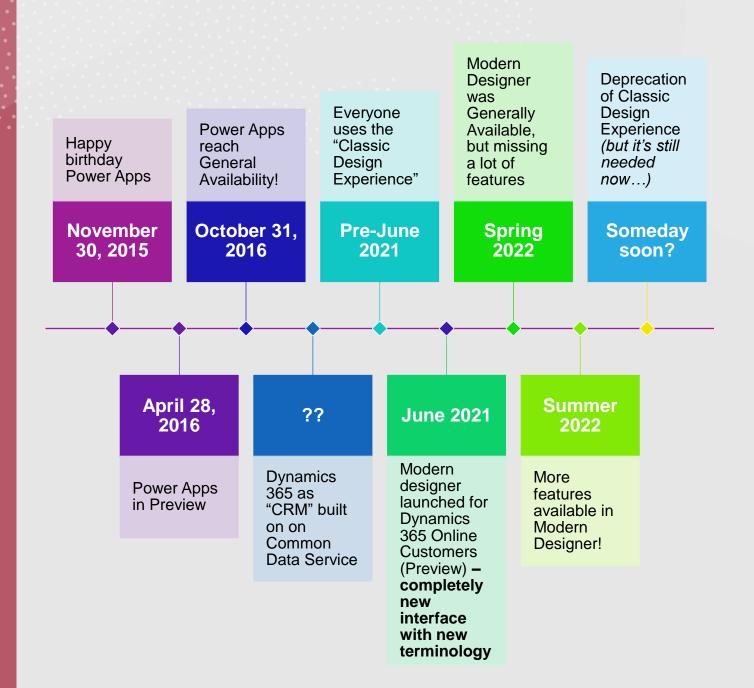
Tailored, streamlined access for user groups

Only see the information they need

Hide the noise & simplify the user experience



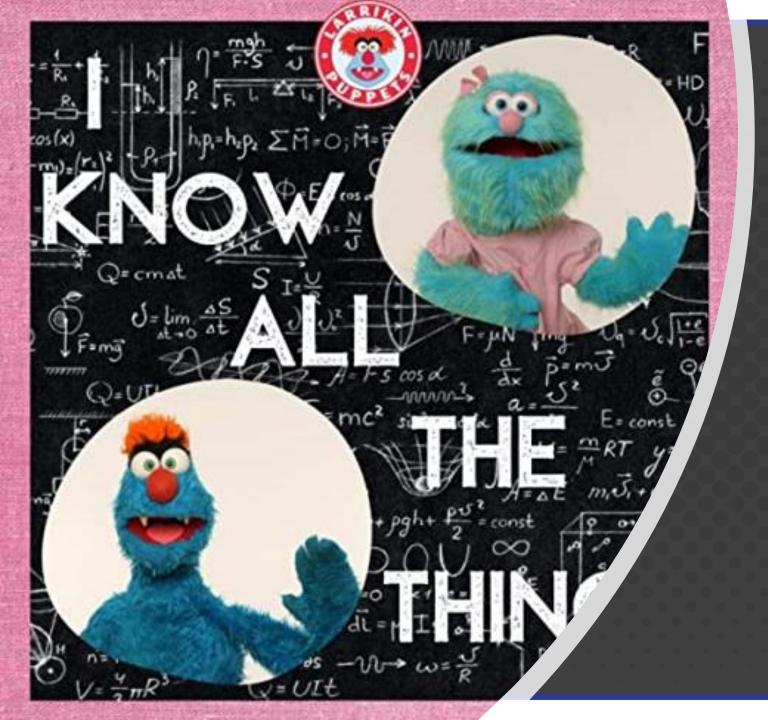
Timeline



Which means...







You have to know all of the things

Power Apps Maker Portal AND

Classic Designer

Model-driven Apps: Terminology

Classic / On Premise or Online

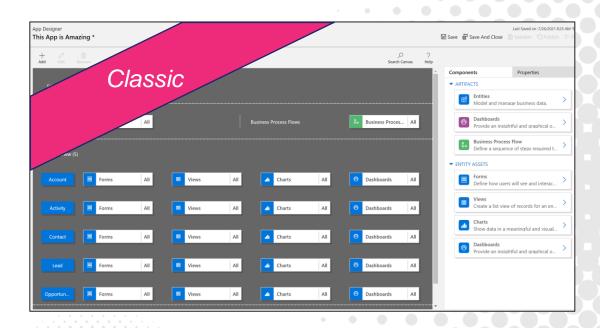
- App areas controlled by Site Map
- Artifacts: Entities (tables),
 Dashboards & Business
 Process Flows
- Entity Assets: Forms, Views, Charts

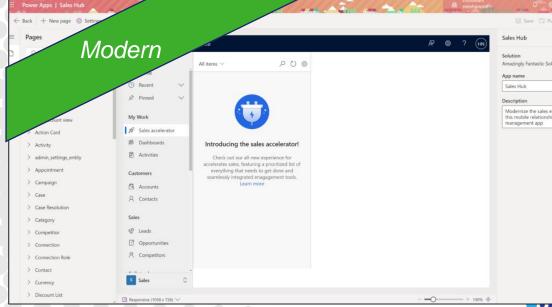
Modern / Online Only

- App areas controlled by Navigation
- Pages: Table-based view and form, Dashboards, Custom
 - Views, forms & charts defined at Page level



Model-driven Apps









Model-driven Apps: Benefits

Classic / On Premise or Online

Access to additional features



Modern / Online Only

- All app changes made on single canvas
- Real-time preview with data
- Ability to add canvas app as a page
- Connections with Power Automate

Switch to Classic!!!

Limitations of the Power Apps modern designer



Cannot specify the app's URL

Certain Navigation (Site Map) Constraints

- Web Resources
- URL

Certain components (artifacts) not available

- Charts
- Business Process Flows



Security & Permissions





Security Roles to make / use apps

Be an App Maker

- Existing security role with App Maker permissions:
 - System Admin
 - System Customizer
 - Environment Maker
- Write and/or Create permission on Model-driven App table



 Read permission on Modeldriven app table

Details Core Records Marketing	g Sales Service	e Busines	s Management	Service N	lanagement	Customizat
Table	Create	Read	Write	Delete	Append	Append To
App Config Master	0	•	0	0		
Attribute Map	0	•	0	0	0	0
Callback Registration	<u>_</u>					
Canvas App	0	0	0	0		0
Custom Control	0		0	0		
Custom Control Default Config	0		0	0		
Custom Control Resource	0		0	0		
Customizations	0	•	0	0		
Entity	0	•	0	0	0	0
Entity Key	0	•		0		
Entity Map	0	•	0	0		0
Expander Event	0	•	•	0	0	•
Field	0	•	0	0		
Hierarchy Rule	0	•	0	0		
Import Job		0	0	0		
Model-driven App	0	•	0	0	0	0
Option Set	0	•	_ 0	0		
	^	_	^	$\overline{}$		



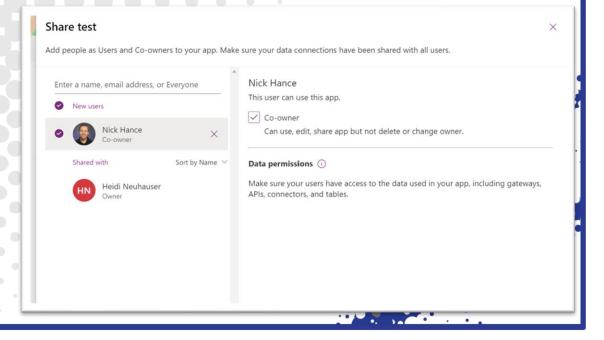




Sharing to other makers

Collaborate as you build your app!

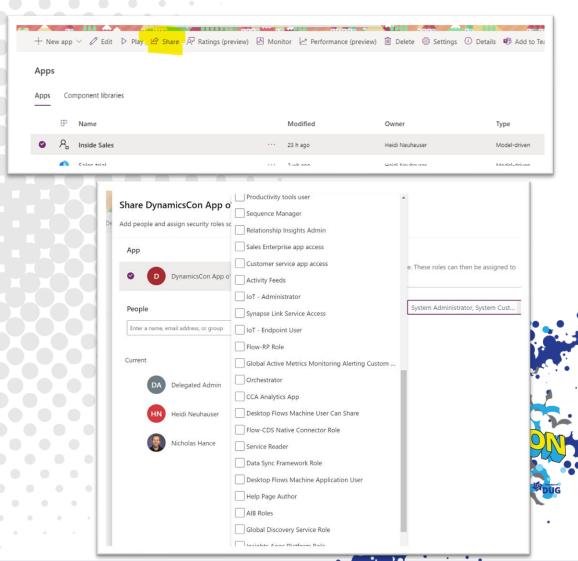


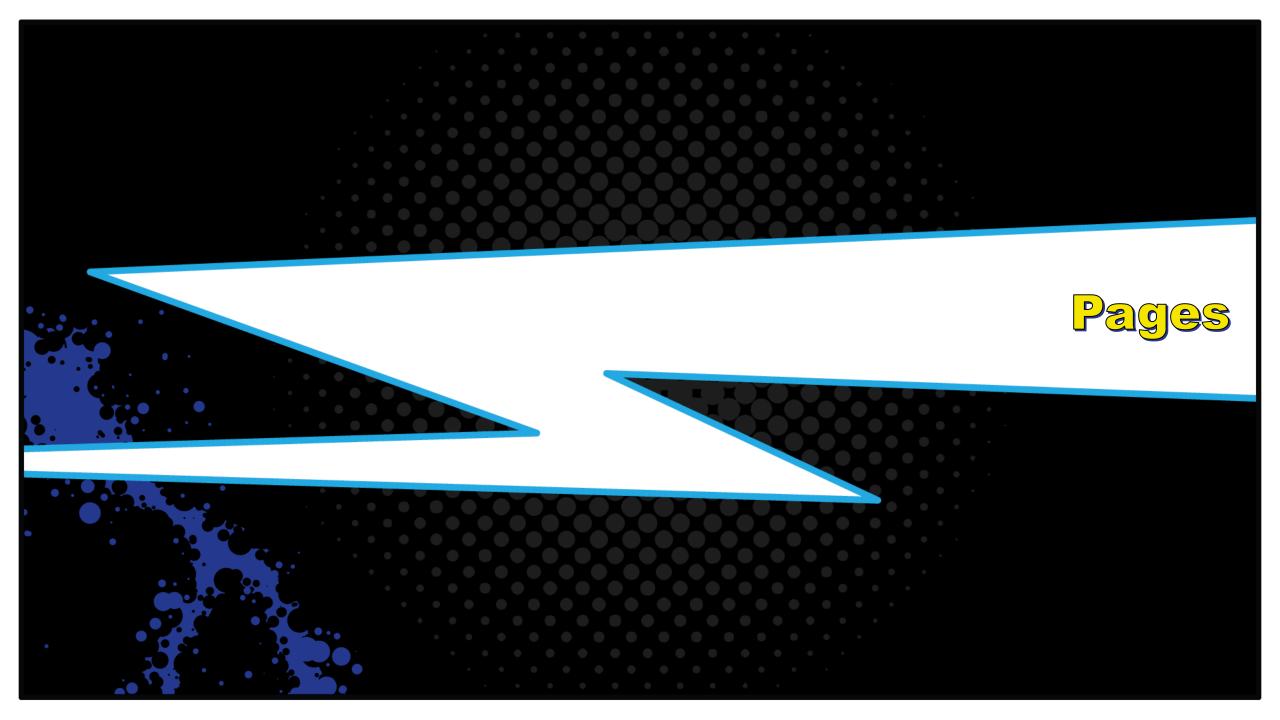


Sharing app access to users

- Share App by:
 - Security Roles
 - Individual People
- Go to Apps section, highlight app and click Share bottom at the top



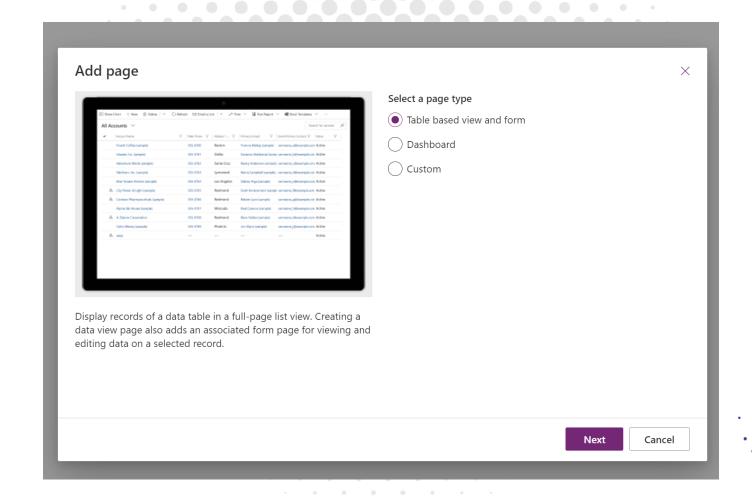




Your app is built using Pages



A page can be a table based view and form, dashboard or custom

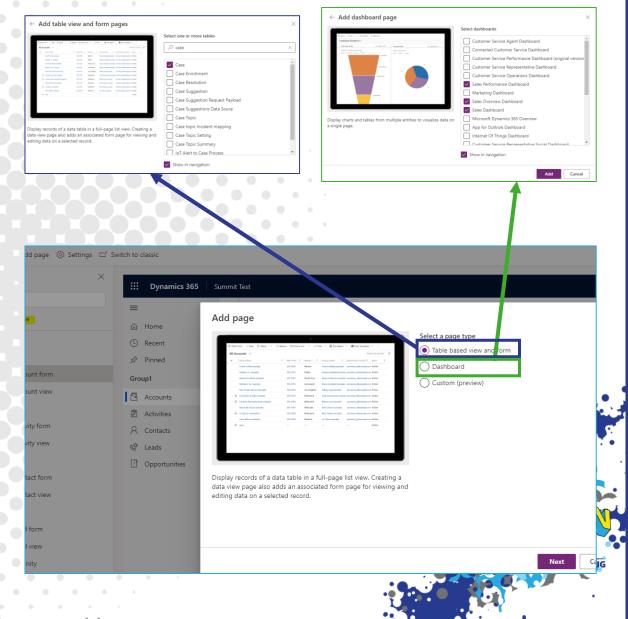




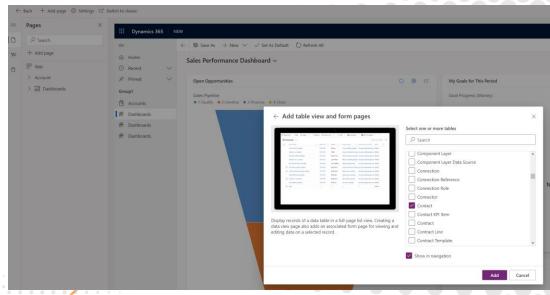


How to: Add & work with Pages

- 1. Click the Pages icon
- 2. Click + Add page
- 3. Select page type from the list
- 4. Click Next
- 5. Select Details
- 6. Click Add



How to: Work with Table View and Form Pages



1

Add table view & form page

2

Select table(s)

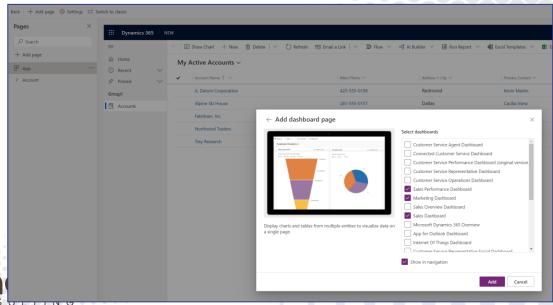
3

Click Add





How to: Work with Dashboard Pages



1

Add Dashboard Page 2

Select Dashboard(s)

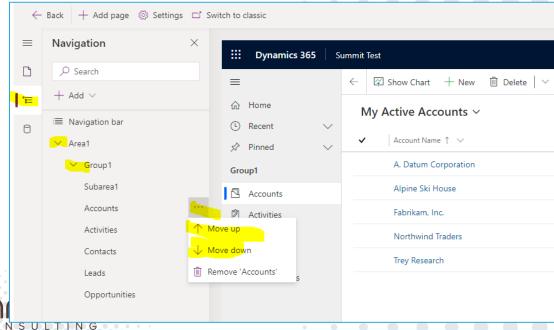
3

Click Add





How to: Change Navigation



Click Navigation bar icon

Expand "Area 1"

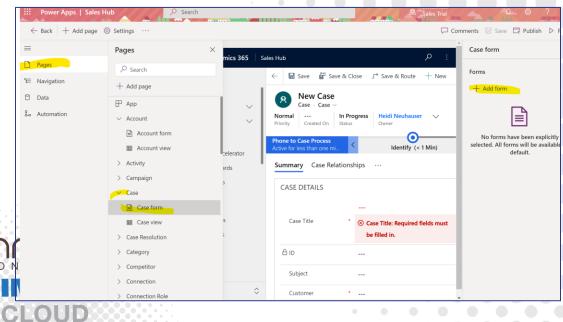
3

Expand "Group 1" 4

Use Move up & Move down



How to: Select specific forms for your app



1

Go to Pages

2

Expand table

3

Select table form

4

Use +Add forms

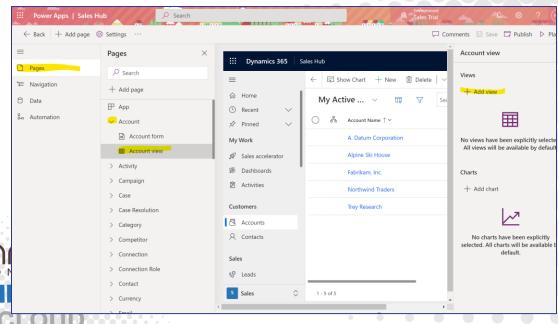


SPS COMMERCE

Own {backup}

29

How to: Select specific views for your app



1

Go to Pages

2

Expand table

3

Select table view

4

Use +Add Views



sps commerce

Own {backup}

Extra features you configure for a model-driven app

App name & description

App icon

Primary mobile player

Async onload handler

Async save handler

Enable Power Bl quick report visualization on a table (preview)

Enable the New Email Template Editor

In-app notifications

Native Mobile Date Time

Native Mobile Inputs



Offline setup from the app designer (preview)

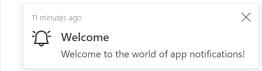
Tablet
Optimization for
Command Bar

Choose offline mode to apply to your app

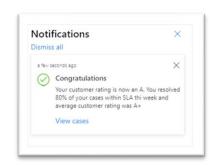


Let's learn more about all of these!

Feature	Details
App name, description & icon	Update the name of the app, the description that appears in list of My Apps and the icon for the app.
Primary mobile player	Select the primary player for your model-driven app: Power Apps mobile (default), Dynamics 365 Sales or Field Service (Dynamics 365)
Async onload handler	Specifies all onload handlers in the app are enabled to be asynchronous (JavaScript runs in the background when the page loads).
Async save handler	Specifies all save handlers in the app are enabled to be asynchronous (JavaScript runs in the background when the form is saved).
Enable Power BI quick report visualization on a table (preview)	End users can visualize the data on a table's view page with Power BI quick reports. Requires TDS endpoint to be enabled.
Enable the New Email Template Editor	This setting enables/disables the enhanced email template editor.
In-app notifications	Enables the app to poll for new in-app notifications and display those notifications as a toast or within the notification center.
Native Mobile Date Time	Enables mobile app native device controls when interacting with Date and Time values on a form. (Only for Field Service mobile player.)
Native Mobile Inputs	Enables mobile keyboard per input type on mobile clients. (Only for Field Service mobile player.)
Offline setup from the app designer (Preview)	Easily configure your app for offline from this app designer.
Tablet Optimization for Command Bar	For tablet: Replaces the native command bar at the bottom with the web command bar at the top.



More on in-app notifications



Security considerations to receive in-app notifications

- Read permissions on app notification table
- · Create, Read, Write & Append permissions on model-driven app user setting
- Read and Append To permissions on setting definition

Storage considerations

- App notification table → uses DB storage capacity
- Set expirations on notifications ©



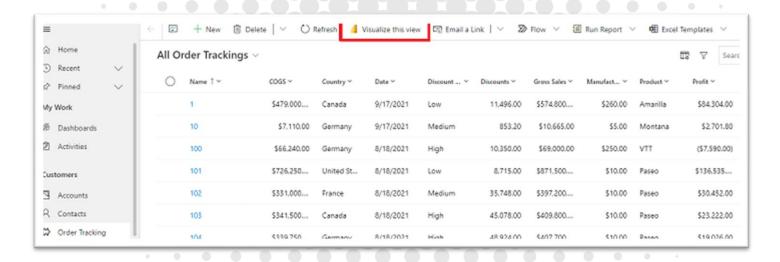
Really neat use cases: needs code (for now?)

https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/clientapi/send-in-appnotifications



More on that Power BI Preview item...

• New button: "Visualize this view" → Turns THIS....





Into THIS!!!







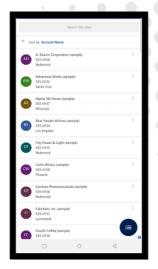
- Anyone can use Visualize this view to explore data in a view....
- BUT if you want to edit, publish reports, view reports others have published, you'll need a Power BI Pro license



Choose offline mode to apply to your app

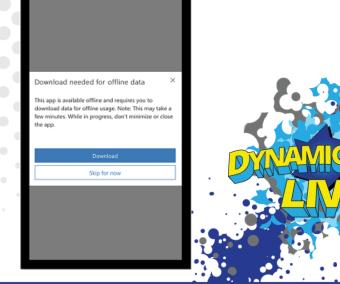
Offline-first (New, default option)

- Data is always the same regardless of connection
- Users do not need to sync their changes to server – app does it automatically

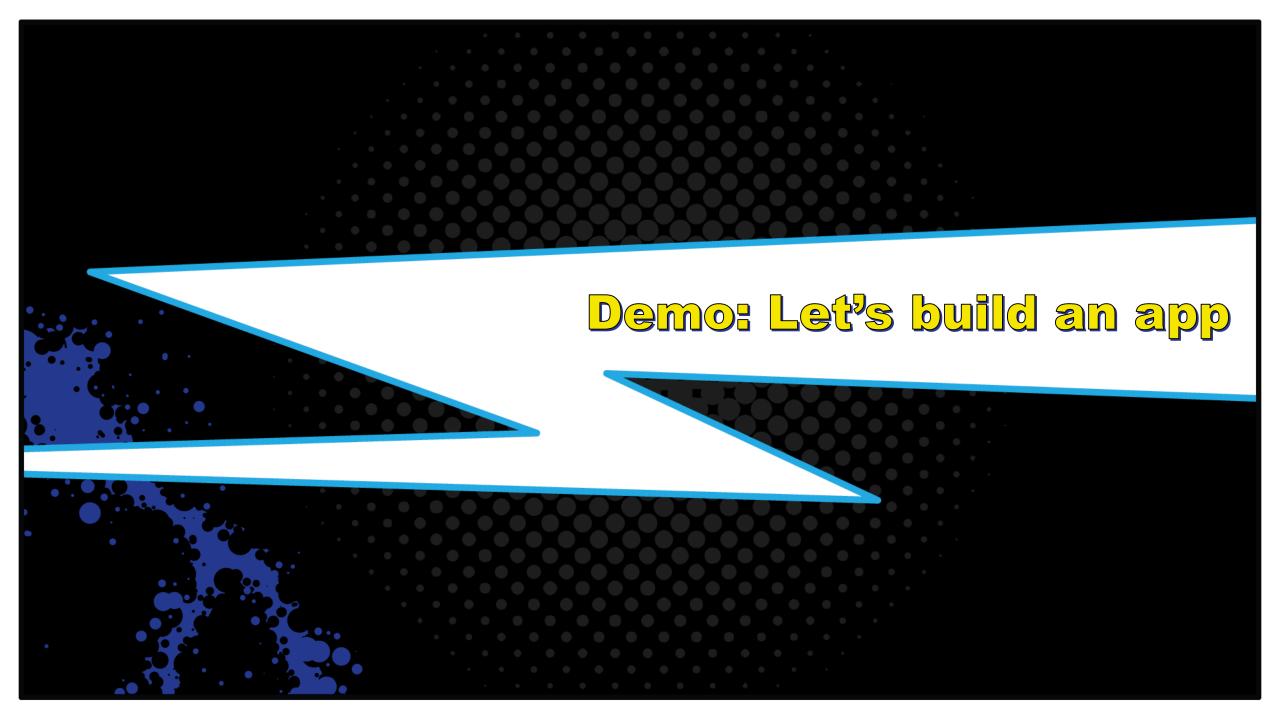


Classic Offline (why would you choose this?!)

- Download needed for offline data
- Users need to disable Work in offline mode before they can sync changes with server









Release Wave 2 Features in Model-Driven Apps: Oct 2022 - March 2023

Feature	Public Preview	General Availability	Link for Details
Modern Advanced Find turned on by Default	N/A	Oct 2022	Click for details
Create & join Teams meetings in-app or from Appointments	N/A	Oct 2022	Click for details
View colleague's presence in all model-driven apps	Aug 2022	Oct 2022	Click for details
View only relevant activities in drop-down	N/A	Oct 2022	Click for details
Easily copy links to records	N/A	Oct 2022	Click for details
Appointment description supports rich text	N/A	Oct 2022	Click for details
Connect to external data from Dataverse	Oct 2022	Jan 2023	Click for details
Grid control support for grouping, aggregation, nested grids	Oct 2022	No date yet	Click for details
Filter grid data, save results as a view	N/A	Oct 2022	Click for details
Use Teams chat with others in app	Oct 2022	Mar 2023	Click for details





Microsoft Learn



Power Platform Fundamentals

D365 Fundamentals: Customer Service

D365 Fundamentals: Sales

D365 Fundamentals: Marketing-

Configure forms, charts and dashboards in model-drive And and a second dashboards in model-drive And a second dashboard dashboards in model-drive And a second dashboard d

Microsoft Docs





Power Apps



Model-driven Apps



Planning your Power App



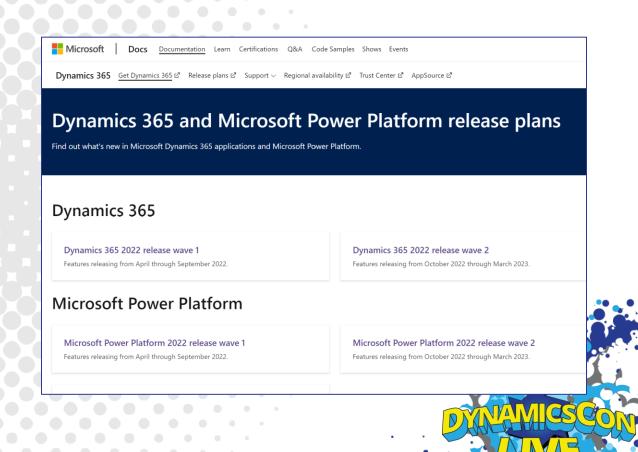
Glossary of Terms



Upcoming Release Notes

- Link to all Release Plans
- 2022 Release Wave 2 Plane (October 2022 – March 2023 Updates):
 - Power Platform
 - Dynamics 365





Roadmap

Link to Dynamics 365 & Power Platform Roadmaps



Dynamics 365 and Microsoft Power Platform product roadmaps

We're continuously developing new capabilities to enable your digital transformation. The product roadmap provides a glimpse into what will be made available in the next wave of product updates.

Dynamics 365 Sales

Dynamics 365 —	Dynamics 303 Sales
Sales	Prerelease product or features may be substantially modified before commercial release. This roadmap represents a product view and is not indicative of final licensing of individual features. Microsoft makes no warranties, express or implied, with respect to the information provided.
Marketing	
Customer Service	Roadmap priorities
Field Service	• •
	Collaborate better using Microsoft Teams calling with Dynamics 365
Finance	Embedded Microsoft Teams collaboration, with message extensions and actions, will be generally available and will include
Supply Chain Management	some enhancements to suggested contacts and the overall experience.
Intelligent Order Management	Build better relationships using LinkedIn with Dynamics 365
	Get easy access to Sales Navigator and take advantage of better interoperability with LinkedIn.
Commerce	Get improved productivity tools and forecasting updates
Human Resources	An account-based who knows whom feature will be released in wave 2, along with an update to streamline activity capture with
Dynamics 365 Fraud Protection	the auto capture feature.
Business Central	Streamline guided selling with sales accelerator enhancements and data hygiene

Other Great Community Resources



Local User Groups



Power Platform Weekly Newsletter





PCF Gallery

Questions?



