



Module: Gen Pages

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For this workshop, we will use Northwind Traders Solution.

 **Pre-requisite – Module 3 must be completed.**

Northwind Traders is an organization that manages orders, products, customers, suppliers, and many other aspects of a small business. We will use their existing solution to illustrate how to build customizable pages using natural language (describe a page) without advanced coding skills.

Gen Pages Introduction

The concept of "Gen UX" or "Generative User Experience" is all about creating new and **innovative user experiences** by leveraging generative AI technologies. This approach focuses on enhancing the interaction between people and AI agents, making the user experience more intuitive, efficient, and personalized.

In this workshop, we will discuss how **Generative Pages** allow users to customize apps with React code generated from natural language input, making it easier to create and modify applications.

Overall, Gen Pages aims to revolutionize the way users interact with digital systems by integrating advanced AI capabilities, making the experience more dynamic, responsive, and user centric.

[Generate a page using natural language with model-driven apps in Power Apps - Power Apps | Microsoft Learn](#)

Scenario 1: Gen Page – Input Form

This exercise entails utilizing the App Agent to generate a page. The objective is to extend the solution to enable employees to register potential leads (Customers).

We need to create a modern user interface in our App for users to register leads.

User experience is as shown below:



Northwind Traders

Register your lead today !

Full Name*

Email*

Phone*

Address*

Website*

Please Enter Your Website Address

REGISTER

1.1 Save the image below to your computer (We will use this later as a reference to Gen Pages to help us generate the modern page)



The image shows a registration form for Northwind Traders. The form is contained within a dark blue header bar that includes the Northwind logo and the text "Northwind Traders". Below the header, the text "Register your lead today!" is displayed. The form consists of five input fields: "Full Name*", "Email*", "Phone*", "Address*", and "Website*". Each input field is preceded by a label and followed by a text input box. Below the "Website*" input field, there is a placeholder text "Please Enter Your Website Address". At the bottom of the form is a grey "REGISTER" button.

Northwind Traders

Register your lead today !

Full Name*

Email*

Phone*

Address*

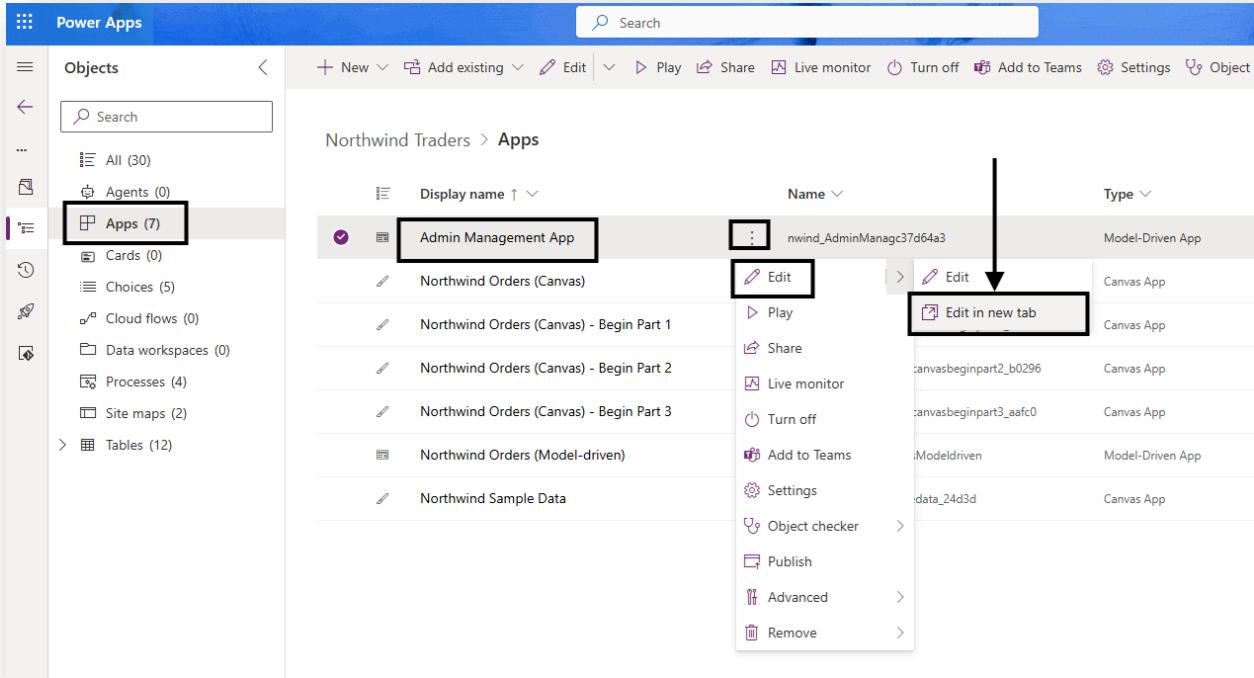
Website*

Please Enter Your Website Address

REGISTER

1.2 Go to make.preview.powerapps.com and go to Solutions

Select the “Northwind Traders” solution -> Apps -> Admin Management App -> Edit -> Edit in new tab

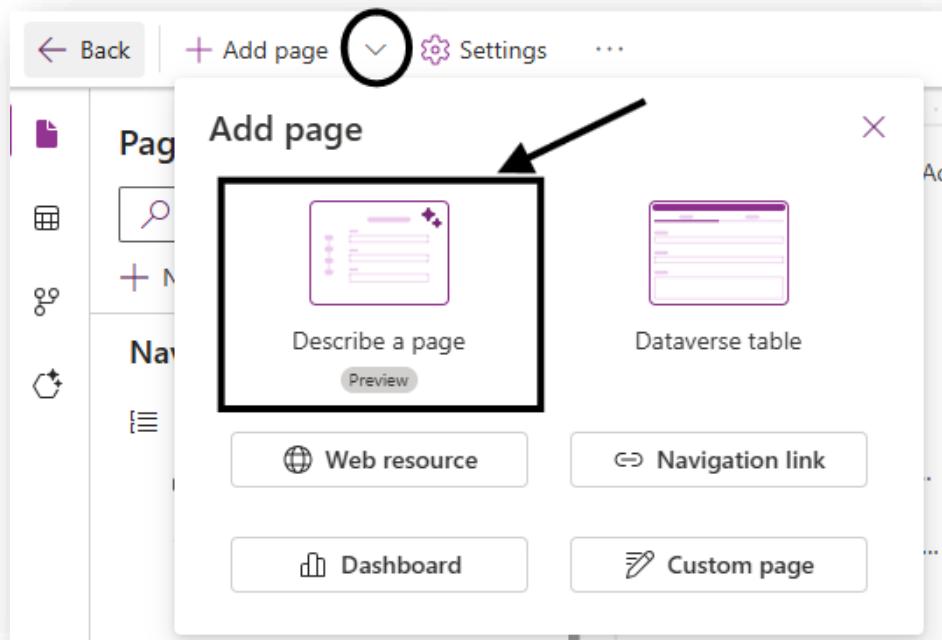


The screenshot shows the Power Apps portal interface. On the left, a sidebar titled 'Objects' lists various categories: Agents (0), Apps (7) (which is selected and highlighted with a red box), Cards (0), Choices (5), Cloud flows (0), Data workspaces (0), Processes (4), Site maps (2), and Tables (12). The main content area shows a list of apps under 'Northwind Traders > Apps'. The 'Admin Management App' is selected and highlighted with a red box. To the right of the app name are three edit buttons: 'Edit' (highlighted with a red box), 'Edit' (disabled), and 'Edit in new tab' (highlighted with a red box and an arrow pointing to it). The list of apps includes: Northwind Orders (Canvas), Northwind Orders (Canvas) - Begin Part 1, Northwind Orders (Canvas) - Begin Part 2, Northwind Orders (Canvas) - Begin Part 3, Northwind Orders (Model-driven), and Northwind Sample Data. The 'Admin Management App' is a Model-Driven App, while the others are Canvas Apps.

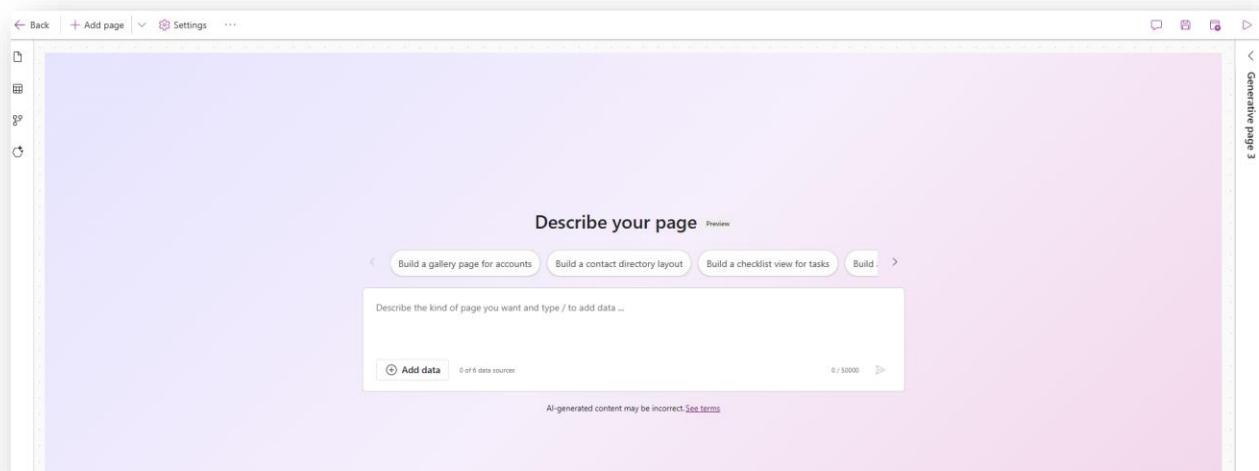
Display name ↑	Name	Type
Admin Management App	nwind_AdminManag37d64a3	Model-Driven App
Northwind Orders (Canvas)	Northwind Orders (Canvas)	Canvas App
Northwind Orders (Canvas) - Begin Part 1	Northwind Orders (Canvas) - Begin Part 1	Canvas App
Northwind Orders (Canvas) - Begin Part 2	Northwind Orders (Canvas) - Begin Part 2	Canvas App
Northwind Orders (Canvas) - Begin Part 3	Northwind Orders (Canvas) - Begin Part 3	Canvas App
Northwind Orders (Model-driven)	Northwind Orders (Model-driven)	Model-Driven App
Northwind Sample Data	Northwind Sample Data	Canvas App

1.3 In Your App – on top left – The **Add Page** option will show the NEW “Describe a page” feature as shown in screenshot below.

Click on “Describe a page”



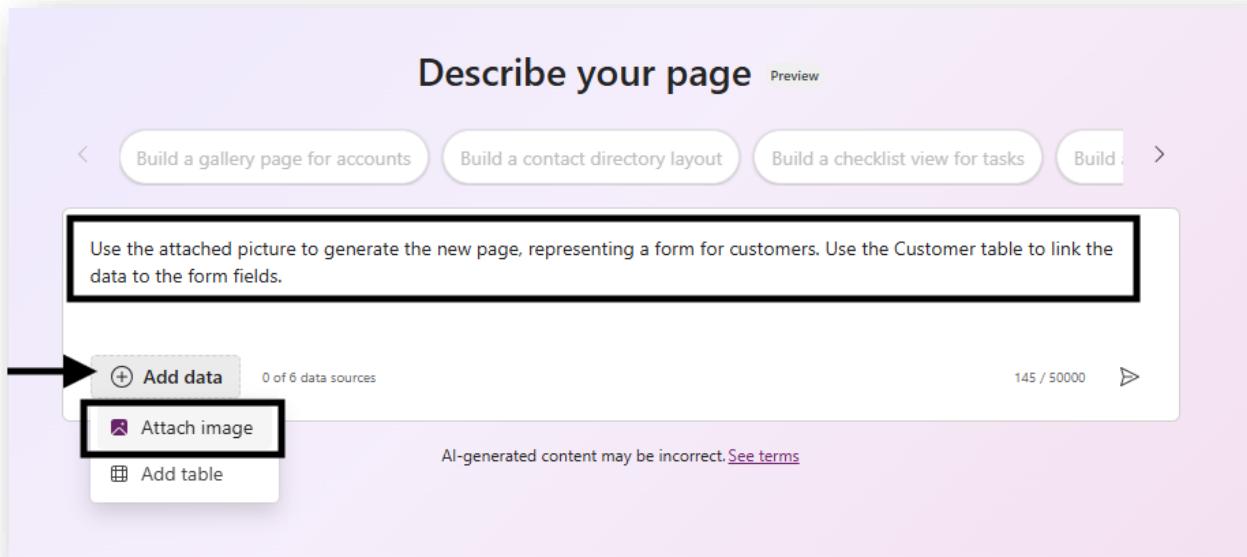
1.4 You should be able to see the App Agent asking you to describe your Page



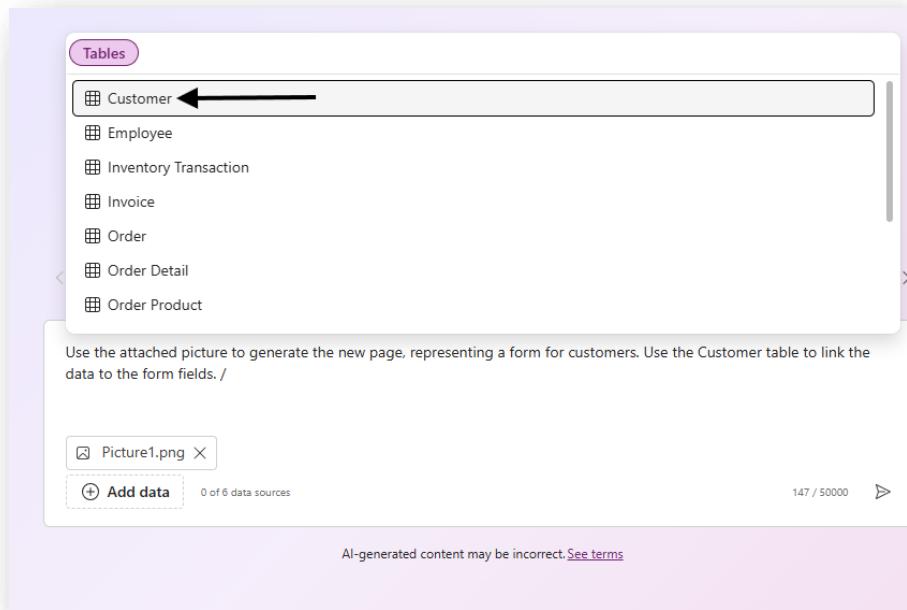
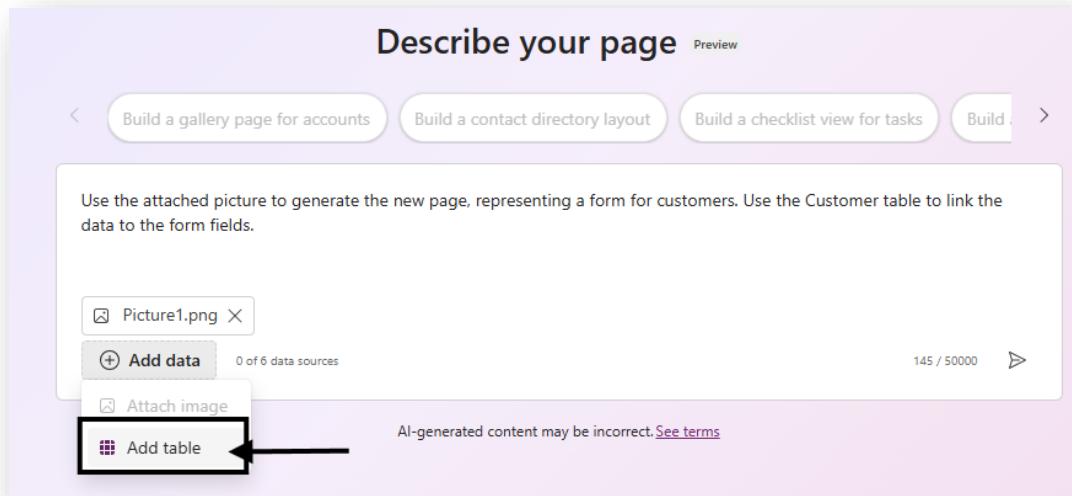
1.5 The App Agent lets you describe any page, but for this scenario, we'll use the previously saved UI image and add the following prompt:

Use the attached picture to generate the new page, representing a form for customers. Use the Customer table to link the data to the form fields.

 Make sure you select Add Data to **Attach image** you saved in earlier step



1.6 Next - Add the reference to the Customer table using the **Add table** option as shown below



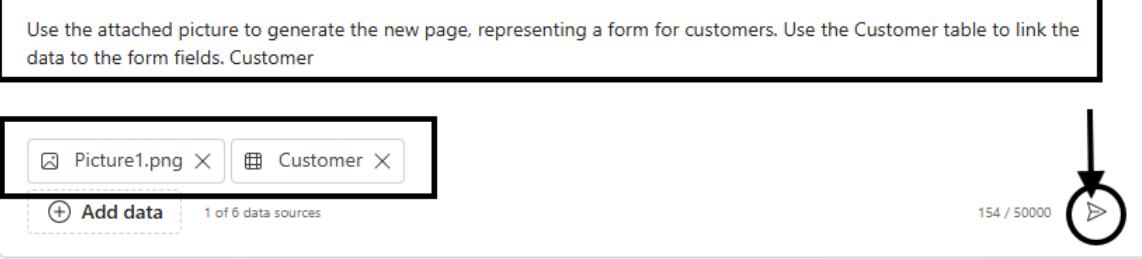
1.7 You should see the prompt, uploaded image, and table as shown below

Click **Generate** → send icon as shown below.

Describe your page Preview

< Build a gallery page for accounts Build a contact directory layout Build a checklist view for tasks Build >

Use the attached picture to generate the new page, representing a form for customers. Use the Customer table to link the data to the form fields. Customer



Picture1.png X Customer X

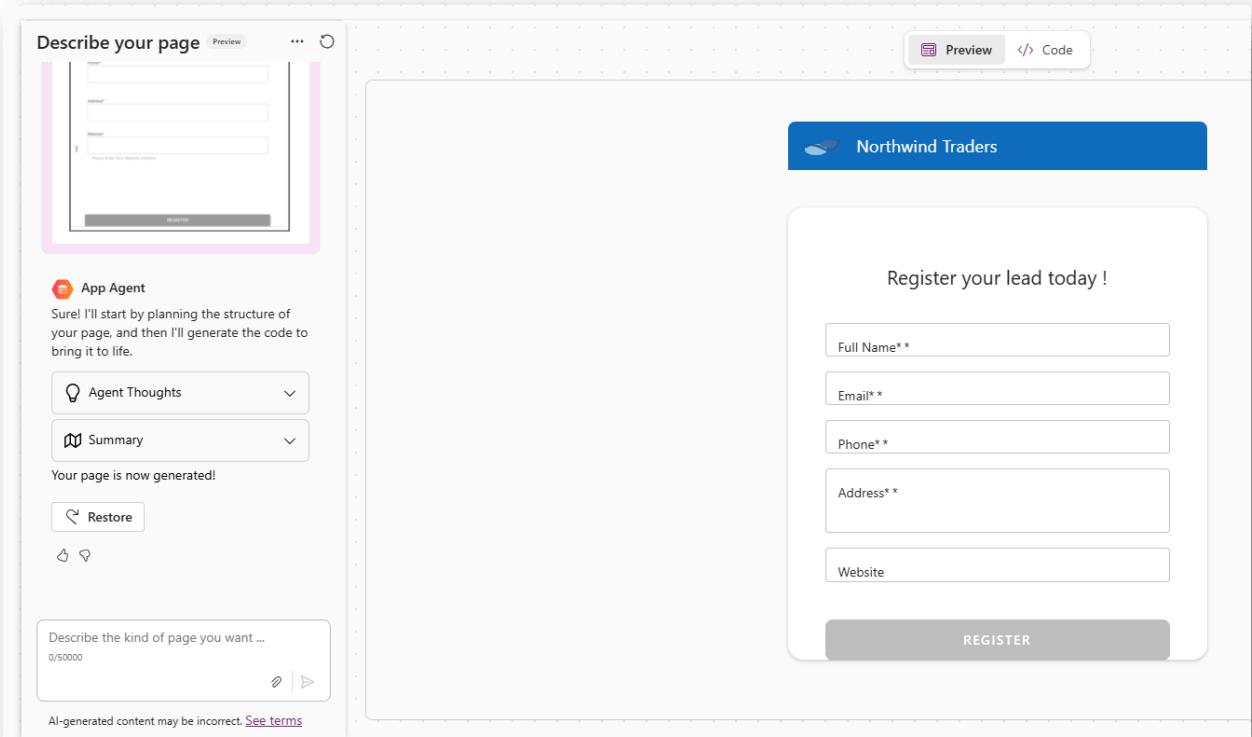
Add data 1 of 6 data sources

154 / 50000 

AI-generated content may be incorrect. [See terms](#)

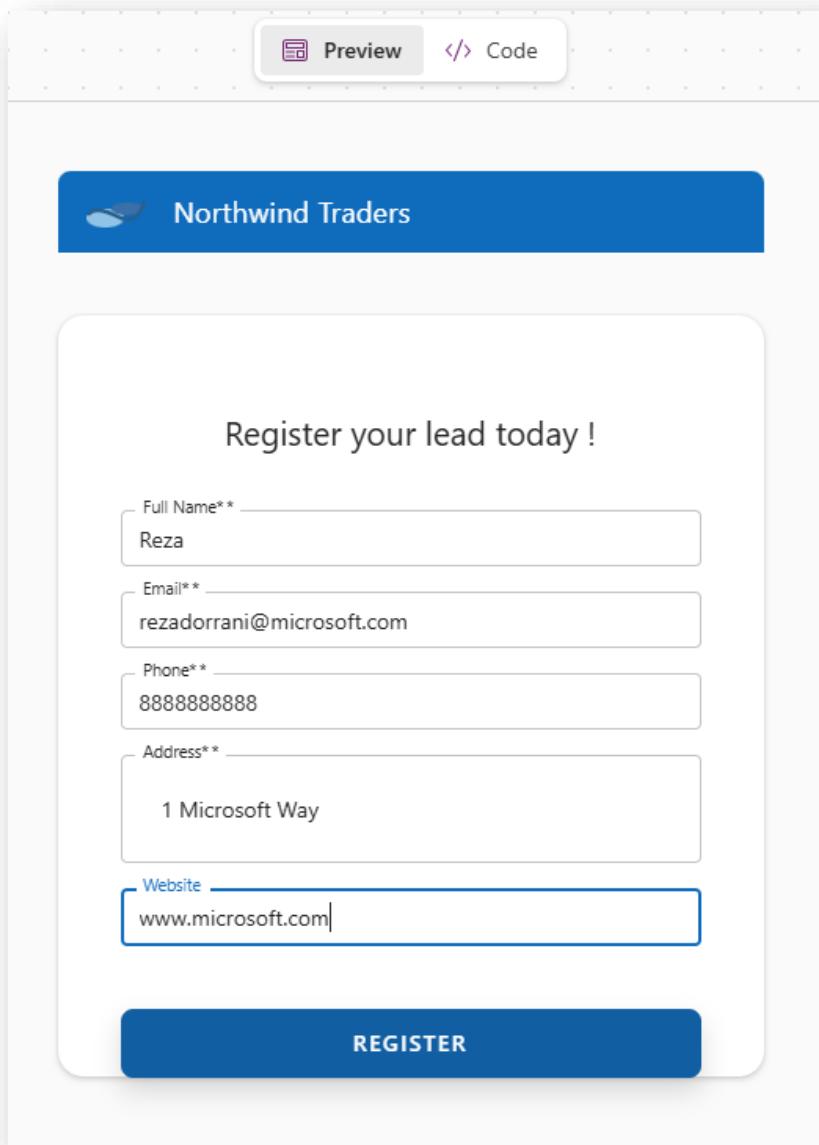
1.8 And code generation will be triggered – React code generated based on description and inputs provided

1.9 Gen Pages will showcase a preview of the page built



The image shows a user interface for generating web pages. On the left, a sidebar titled "Describe your page" contains a text input field with placeholder text "Describe the kind of page you want ... 0/50000" and a "Restore" button. Below this is a section titled "App Agent" with the sub-section "Agent Thoughts" currently selected. The main workspace on the right displays a preview of a registration form for "Northwind Traders". The form includes fields for "Full Name**", "Email**", "Phone**", "Address**", and "Website", along with a "REGISTER" button. The top right of the workspace shows "Preview" and "Code" buttons.

1.10 Try entering values to form in preview (Notice how the form validations come into play – Note: the validation styles may differ based on how the app agent designs your page)



The screenshot shows a registration form titled "Northwind Traders" with a "Preview" tab selected in the top navigation bar. The form fields are as follows:

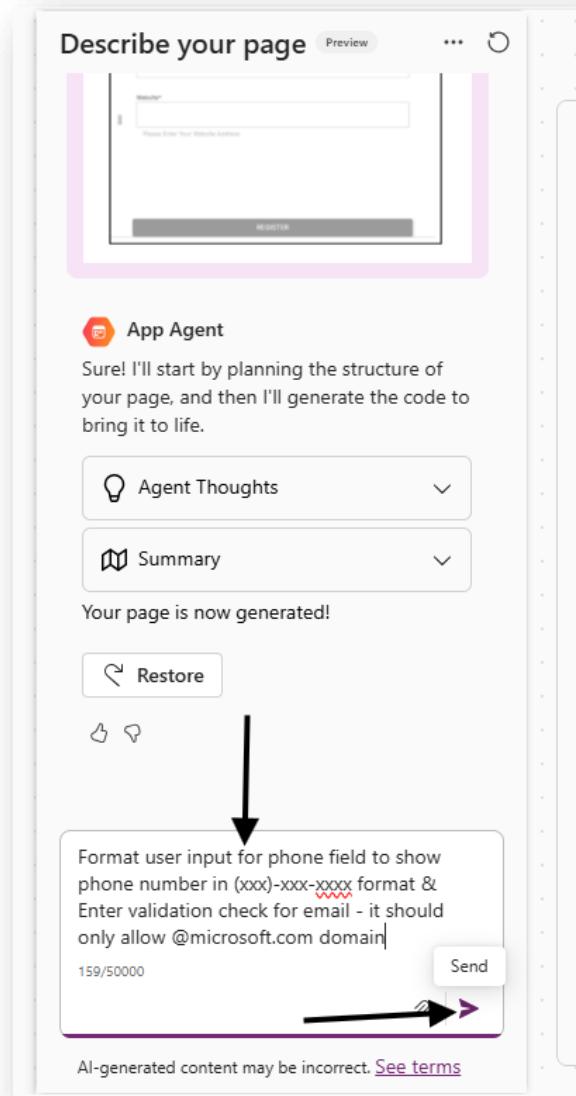
- Full Name**
- Email**
- Phone**
- Address**
- Website

A large blue "REGISTER" button is located at the bottom of the form.

1.11 Now let's ask the App agent to format user input for phone field to show phone number in (xxx)-xxx-xxxx format & Enter validation check for email - it should only allow @microsoft.com domain

Provide the following prompt to the app agent

Format user input for phone field to show phone number in (xxx)-xxx-xxxx format & Enter validation check for email - it should only allow @microsoft.com domain



Click Send to begin code generation!

1.12 The App agent makes updates to the page. Test out the updates in preview mode (as shown below)

Note: How the validation error message is highlighted may differ based on how GenUI builds out the react code for your scenario.

Northwind Traders

Register your lead today !

Full Name**

Reza

Email**

reza.dorrani@gmail.com

Enter a valid @microsoft.com email address

Phone**

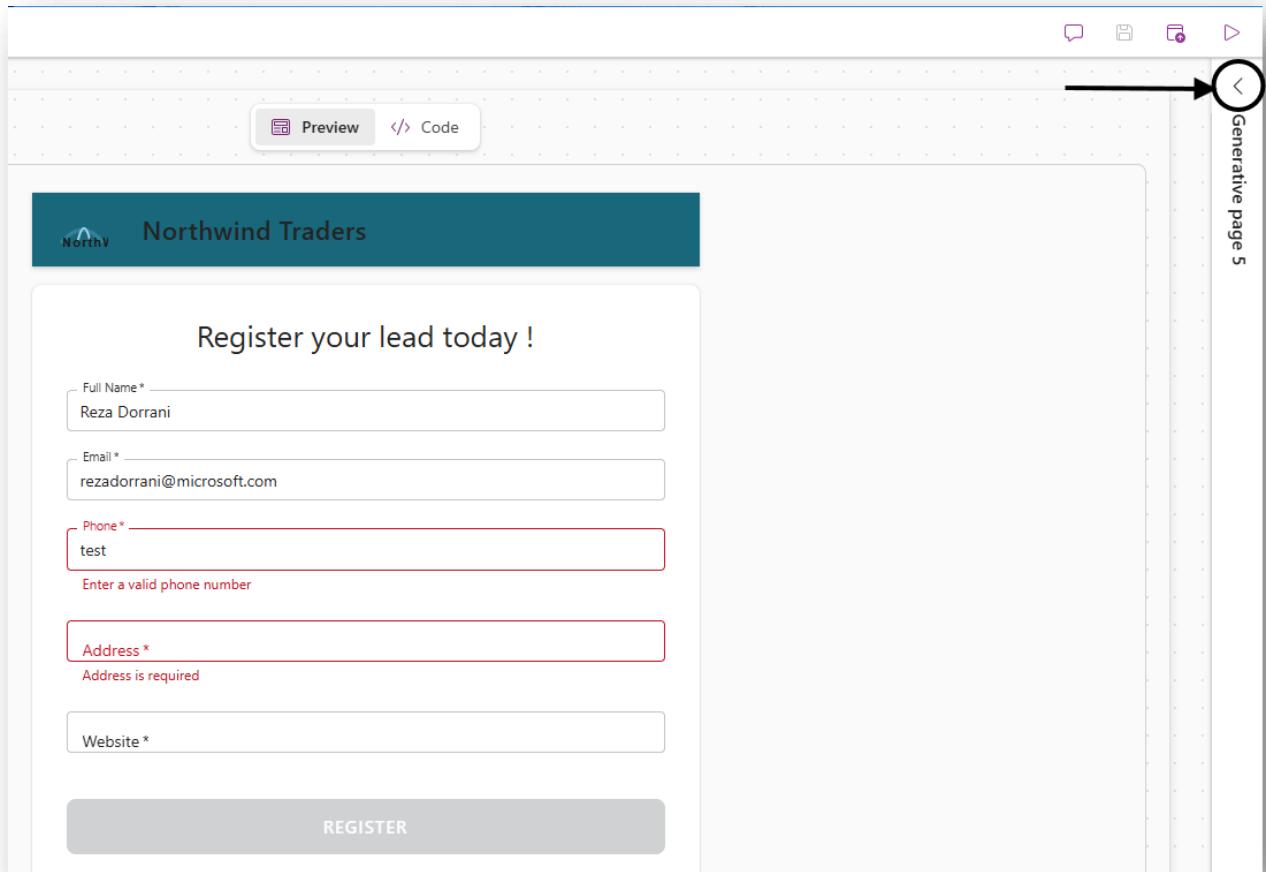
(888)-888-8888

Address**

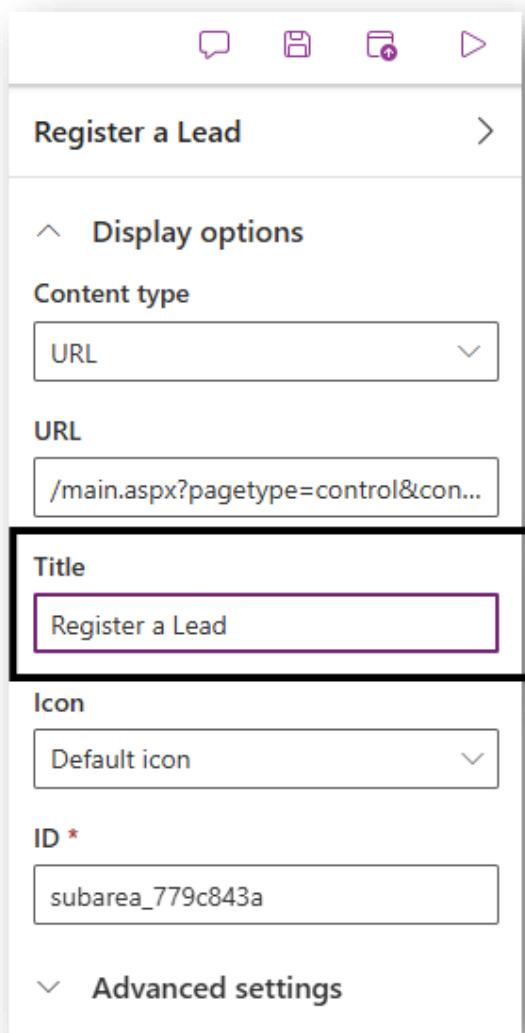
Website

REGISTER

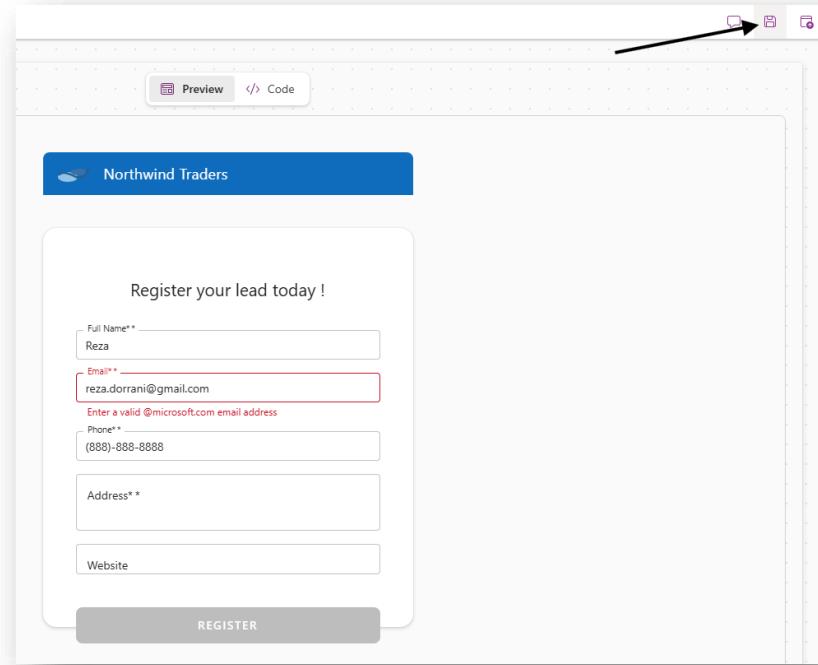
1.13 Let's name our Generative Page -> Click on the expand icon on top right of screen as shown below



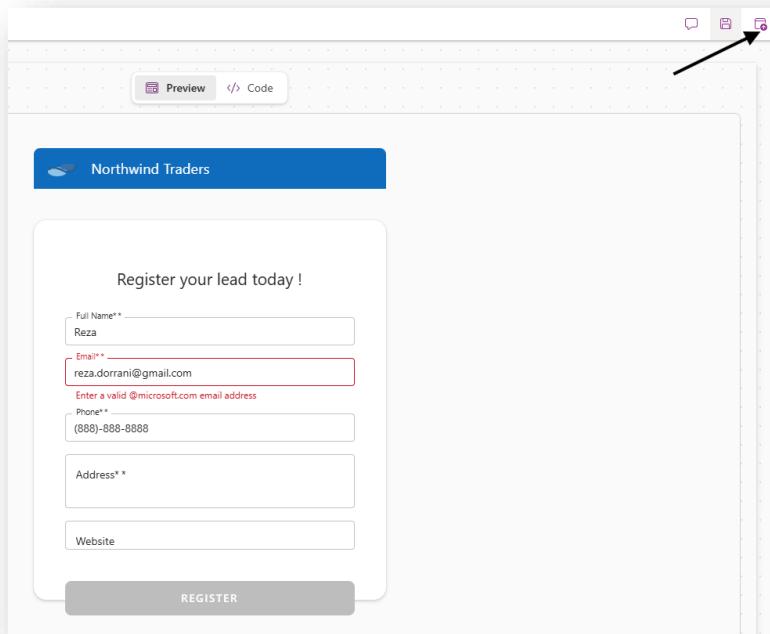
1.14 Set Page title as “Register a Lead”



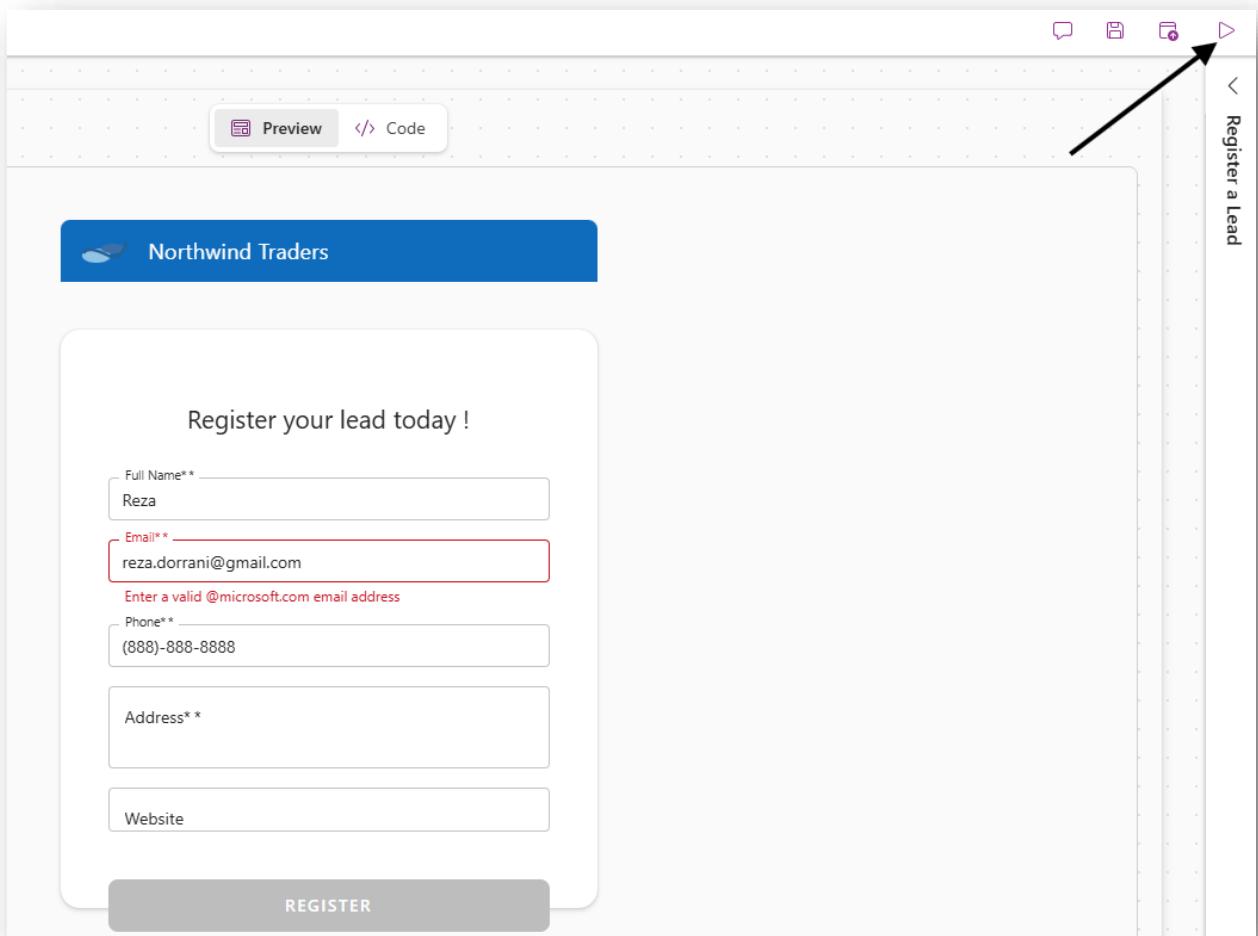
1.15 Save the Page by clicking on Save icon



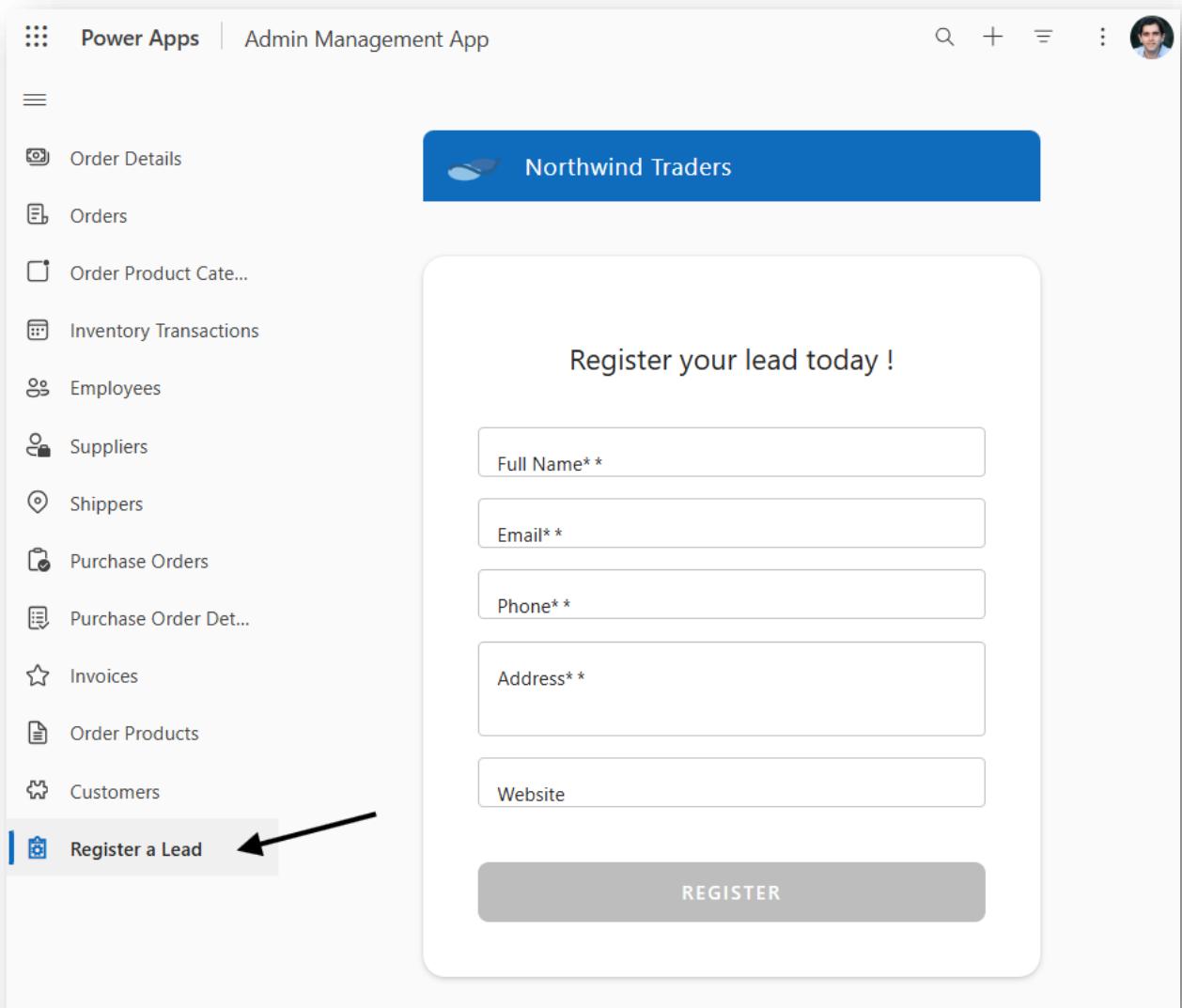
1.16 Publish the App by clicking on the Publish icon



1.17 Play the App



1.18 The “Register a Lead” generative page is now available in your App



1.19 Let's register a new lead – Enter sample data and click Register



Northwind Traders

Register your lead today !

Full Name** _____
Sarah Tabor

Email** _____
sarah@microsoft.com

Phone** _____
(555)-555-5555

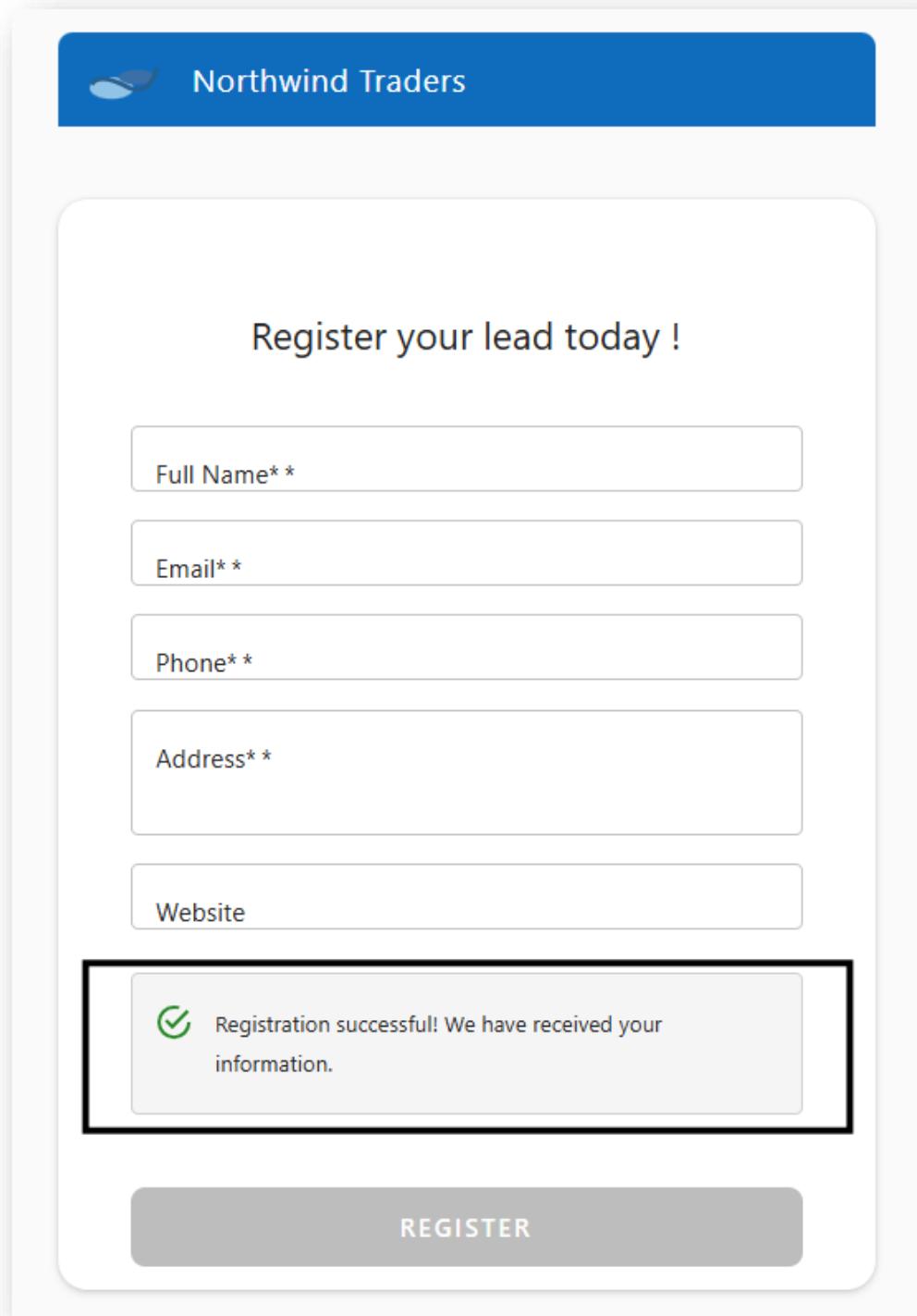
Address** _____
1 Microsoft Way

Website _____
www.microsoft.com

REGISTER

A black arrow points to the "REGISTER" button.

1.20 Once submitted – the Page will provide a visual indicator of the lead being registered successfully as shown below.



The image shows a registration form for Northwind Traders. The form is contained within a white box with rounded corners, set against a light gray background. At the top, there is a blue header bar with the Northwind Traders logo on the left and the text "Northwind Traders" in white. Below the header, the text "Register your lead today !" is displayed in a large, bold, black font. The form consists of five input fields, each with a label and a text input area: "Full Name* *", "Email* *", "Phone* *", "Address* *", and "Website". Below these fields is a message box with a black border, containing a green checkmark icon and the text "Registration successful! We have received your information." At the bottom of the form is a large, rounded rectangular button with the word "REGISTER" in white capital letters.

Full Name* *

Email* *

Phone* *

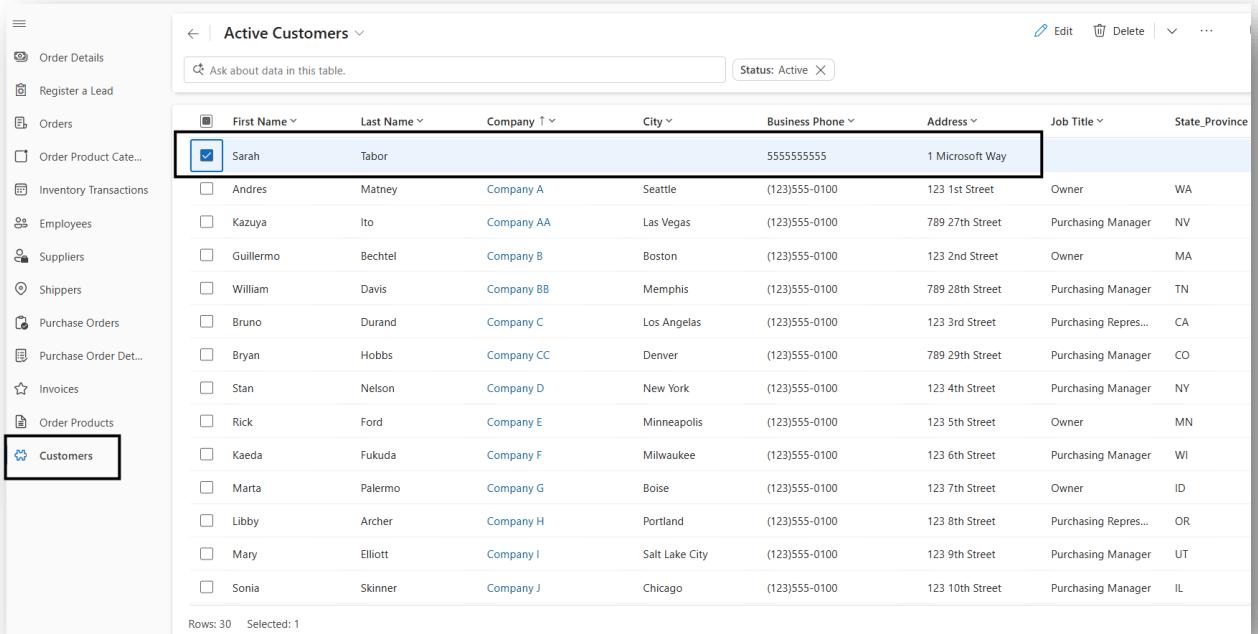
Address* *

Website

 Registration successful! We have received your information.

REGISTER

1.21 Now go the customers page and you will see the newly registered lead record created



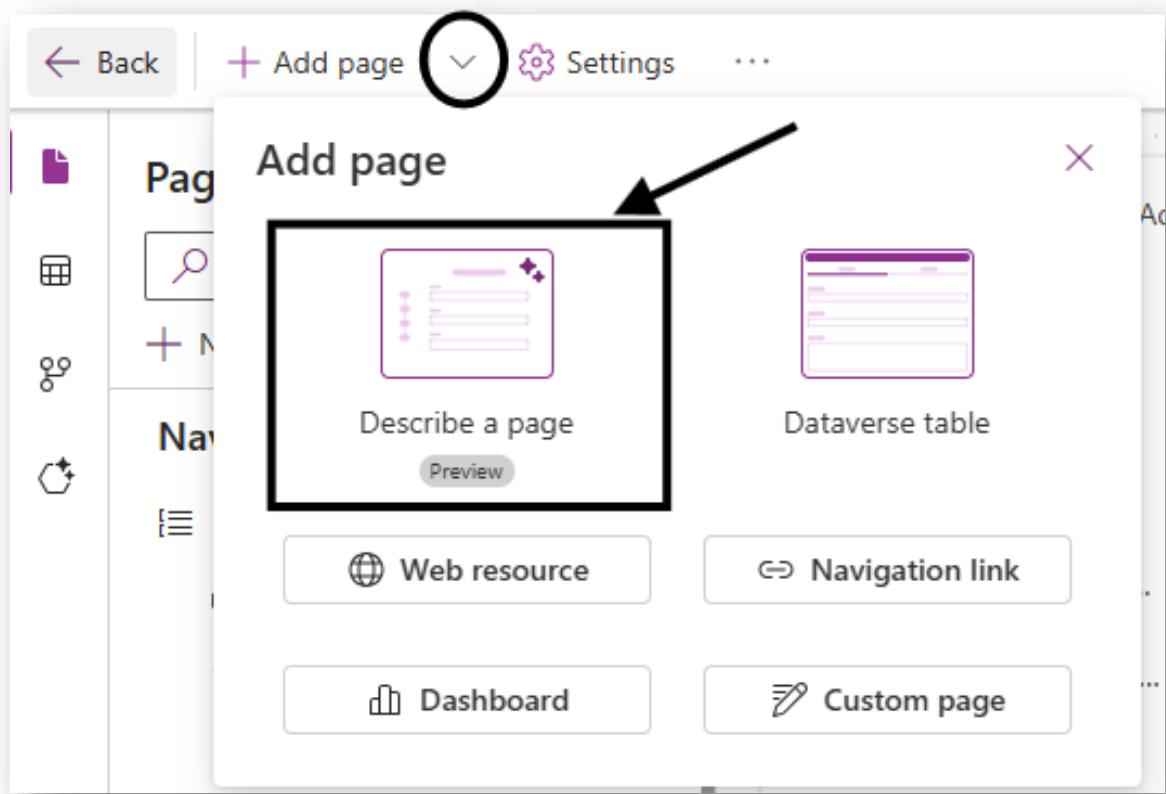
	First Name	Last Name	Company	City	Business Phone	Address	Job Title	State_Province
<input checked="" type="checkbox"/>	Sarah	Tabor			5555555555	1 Microsoft Way		
<input type="checkbox"/>	Andres	Matney	Company A	Seattle	(123)555-0100	123 1st Street	Owner	WA
<input type="checkbox"/>	Kazuya	Ito	Company AA	Las Vegas	(123)555-0100	789 27th Street	Purchasing Manager	NV
<input type="checkbox"/>	Guillermo	Bechtel	Company B	Boston	(123)555-0100	123 2nd Street	Owner	MA
<input type="checkbox"/>	William	Davis	Company BB	Memphis	(123)555-0100	789 28th Street	Purchasing Manager	TN
<input type="checkbox"/>	Bruno	Durand	Company C	Los Angelas	(123)555-0100	123 3rd Street	Purchasing Repres...	CA
<input type="checkbox"/>	Bryan	Hobbs	Company CC	Denver	(123)555-0100	789 29th Street	Purchasing Manager	CO
<input type="checkbox"/>	Stan	Nelson	Company D	New York	(123)555-0100	123 4th Street	Purchasing Manager	NY
<input type="checkbox"/>	Rick	Ford	Company E	Minneapolis	(123)555-0100	123 5th Street	Owner	MN
<input type="checkbox"/>	Kaeda	Fukuda	Company F	Milwaukee	(123)555-0100	123 6th Street	Purchasing Manager	WI
<input type="checkbox"/>	Marta	Palermo	Company G	Boise	(123)555-0100	123 7th Street	Owner	ID
<input type="checkbox"/>	Libby	Archer	Company H	Portland	(123)555-0100	123 8th Street	Purchasing Repres...	OR
<input type="checkbox"/>	Mary	Elliott	Company I	Salt Lake City	(123)555-0100	123 9th Street	Purchasing Manager	UT
<input type="checkbox"/>	Sonia	Skinner	Company J	Chicago	(123)555-0100	123 10th Street	Purchasing Manager	IL

Scenario 2: Gen Page - Gallery of Orders

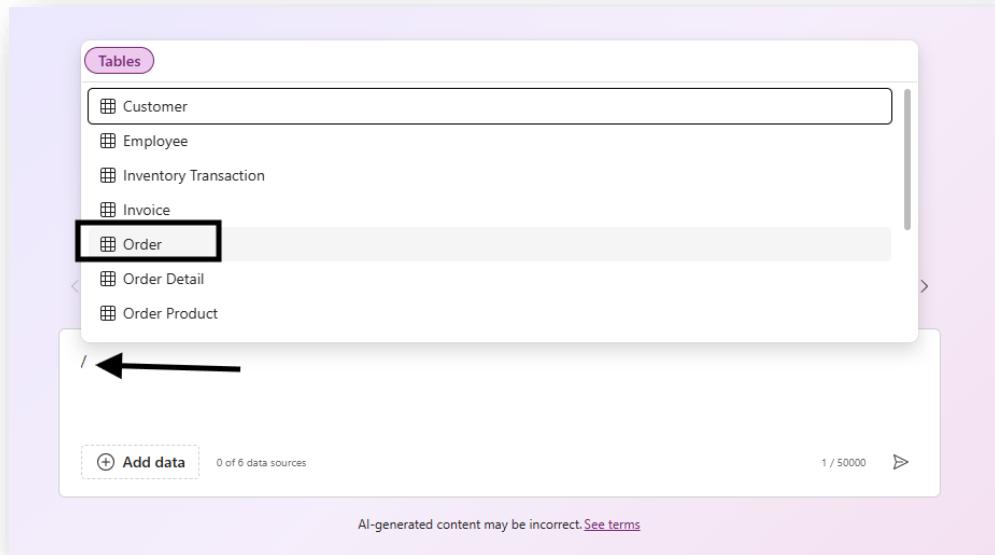
This exercise entails utilizing the App Agent to generate a page to showcase data from Orders table in Gallery – use card style design – include option for user to toggle between light mode and dark mode – define colors for page and more....

2.1 In your Admin Management Model-driven app – on top left – The **Add Page** option will show the NEW “Describe a page” feature as shown in screenshot below.

Click on “Describe a page



2.2 Add a / and select the Order table



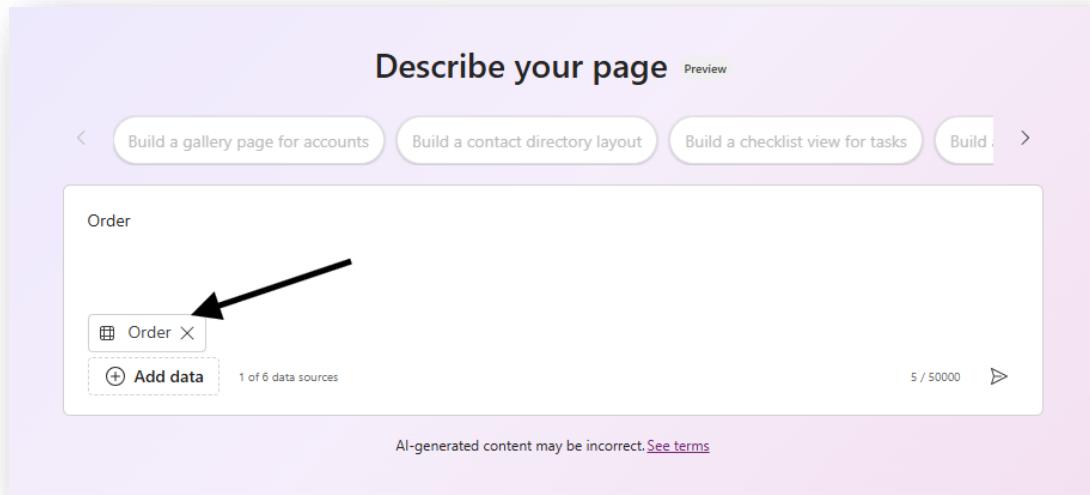
Tables

- Customer
- Employee
- Inventory Transaction
- Invoice
- Order**
- Order Detail
- Order Product

/ ←

+ Add data 0 of 6 data sources 1 / 50000 ➤

AI-generated content may be incorrect. [See terms](#)



Describe your page [Preview](#)

< Build a gallery page for accounts Build a contact directory layout Build a checklist view for tasks Build >

Order

+ Order X 1 of 6 data sources 5 / 50000 ➤

AI-generated content may be incorrect. [See terms](#)

2.3 Add the following prompt and click the Generate icon

Build a page showing Order records as a gallery of cards using modern look & feel. All cards should have fixed size and are tall enough to fit 4 lines of titles. Include Order Number, Customer Name, Payment Type & Paid Date. Make the component fill 100% of the space. Make the gallery scrollable. use data from the Order table.

Describe your page Preview

< Build a gallery page for accounts | Build a contact directory layout | Build a checklist view for tasks | Build >

Build a page showing Order records as a gallery of cards using modern look & feel. All cards should have fixed size and are tall enough to fit 4 lines of titles. Include Order Number, Customer Name, Payment Type & Paid Date. Make the component fill 100% of the space. Make the gallery scrollable. use data from the Order table.

Order X Generate

+ Add data 1 of 6 data sources

AI-generated content may be incorrect. [See terms](#)

2.4 Gen Pages will build the Page preview as shown below

Describe your page Preview

Build a page showing Order records as a gallery of cards using modern look & feel. All cards should have fixed size and are tall enough to fit 4 lines of titles. Include Order Number, Customer Name, Payment Type & Paid Date. Make the component fill 100% of the space. Make the gallery scrollable. use data from the Order table.

App Agent
Sure! I'll start by planning the structure of your page, and then I'll generate the code to bring it to life.

Agent Thoughts ▼

Summary ▼

Your page is now generated!

Restore

Describe the kind of page you want ...
0/50000 0 | 50

AI-generated content may be incorrect. [See terms](#)

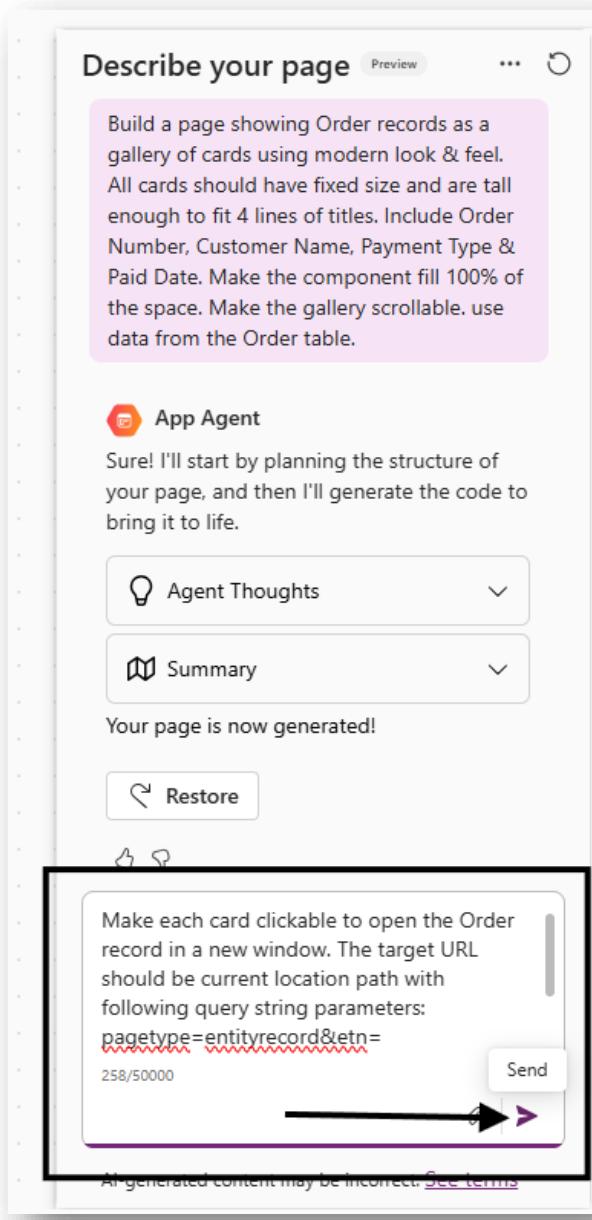
Preview Code

0900 Company AA Payment type: Check Paid date: 01/13/2025	0901 Company D Payment type: Credit Card Paid date: 01/18/2025	0902 Company L Payment type: Credit Card Paid date: 01/20/2025
0904 Company D Payment type: Check Paid date: 02/04/2025	0905 Company CC Payment type: Check Paid date: 02/08/2025	0906 Company C Payment type: Cash Paid date: 02/21/2025
0907 Company F Payment type: Credit Card Paid date: 03/04/2025	0908 Company BB Payment type: Check Paid date: 03/08/2025	0909 Company H Payment type: Check Paid date: 03/20/2025

2.5 Next, let's ask the app agent to make the cards clickable.

Provide the following prompt:

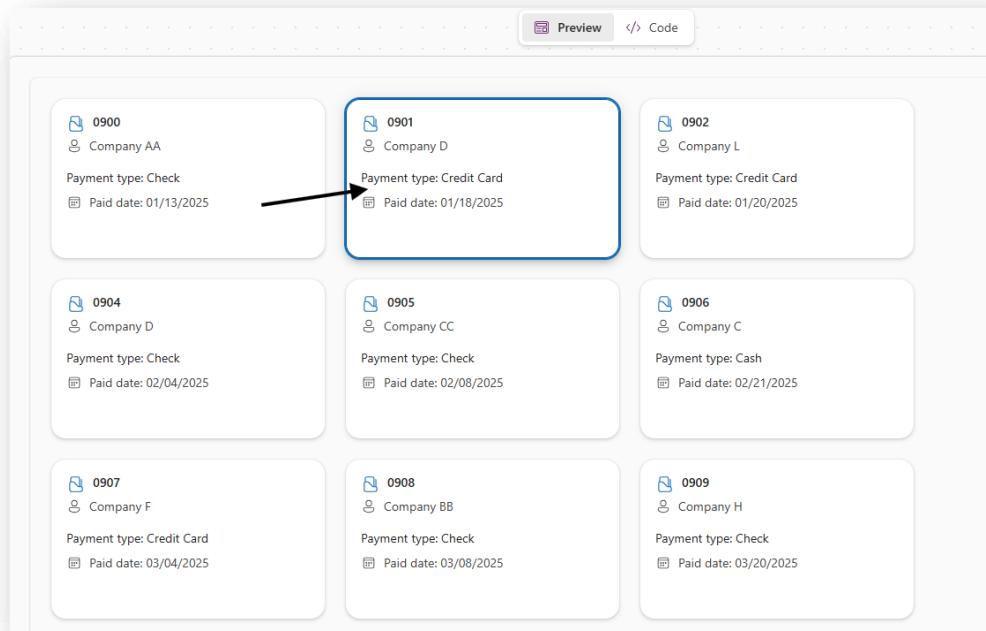
Make each card clickable to open the Order record in a new window. The target URL should be current location path with following query string parameters: pagetype=entityrecord&etn=[entityname]&id=[recordid] where entityname is nwind_orders and id is orderid.



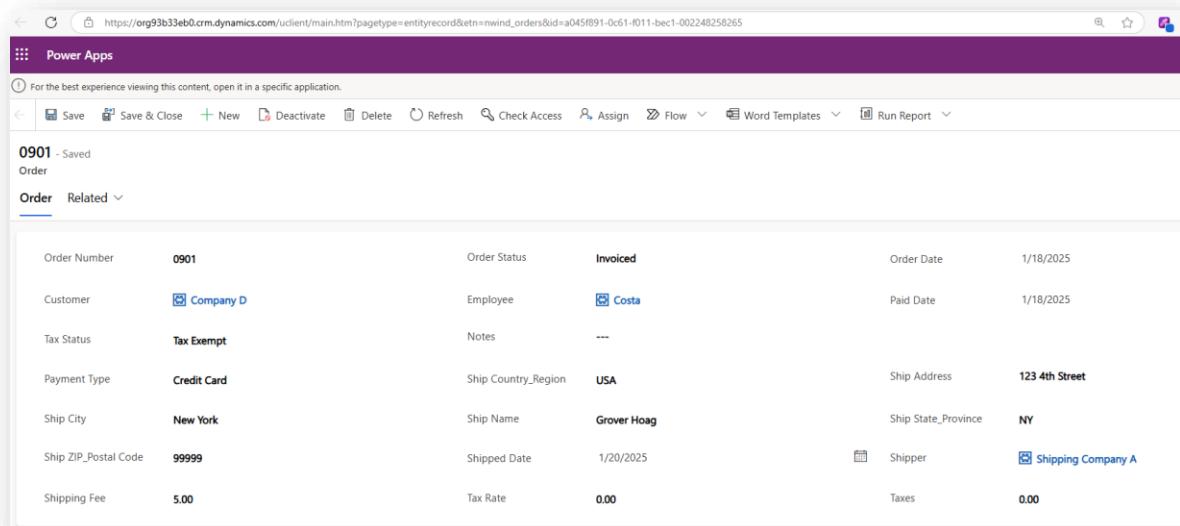
👉 Click **Send** icon

2.6 Your gen page will be updated and the cards highlighting each order record will now become clickable.

Click on any card and see how it redirects you to the specific form for that order record.



Redirects to form screen for that specific order record selected



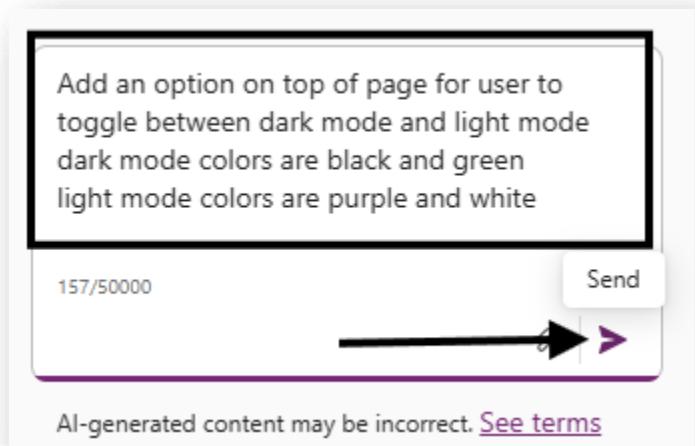
2.7 Now let's ask the app agent to add an option to switch between light and dark mode themes

Add the following prompt:

Add an option on top of page for user to toggle between dark mode and light mode

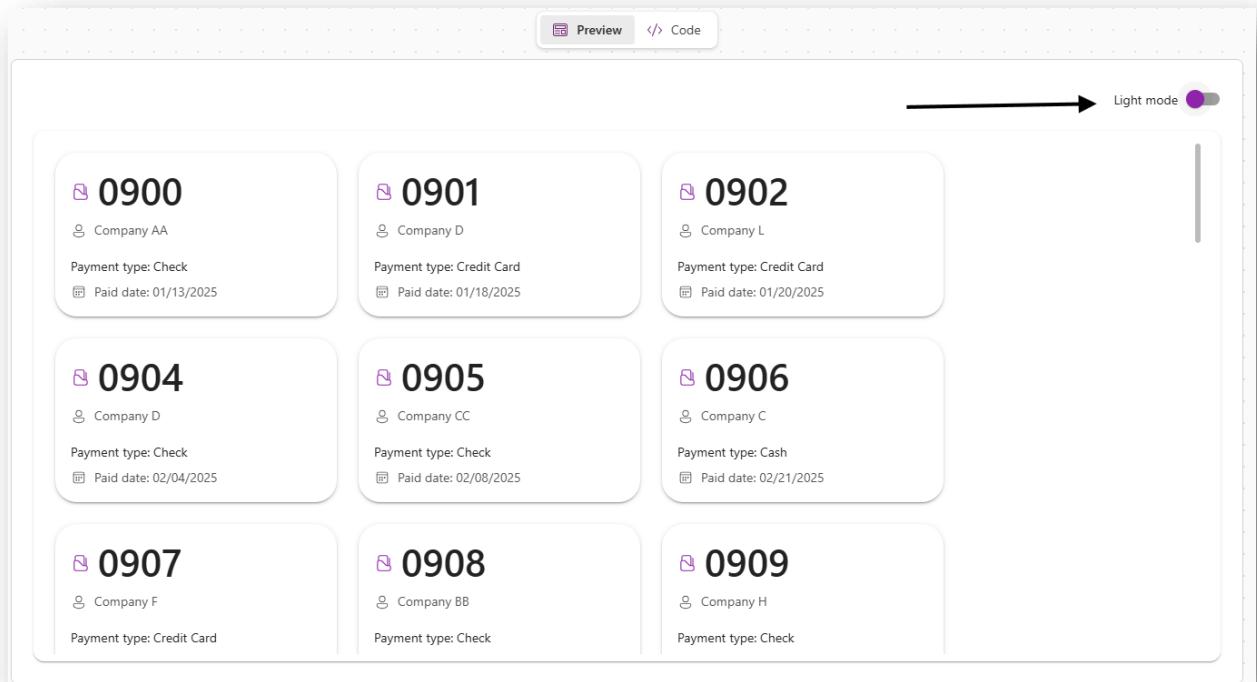
dark mode colors are black and green

light mode colors are purple and white



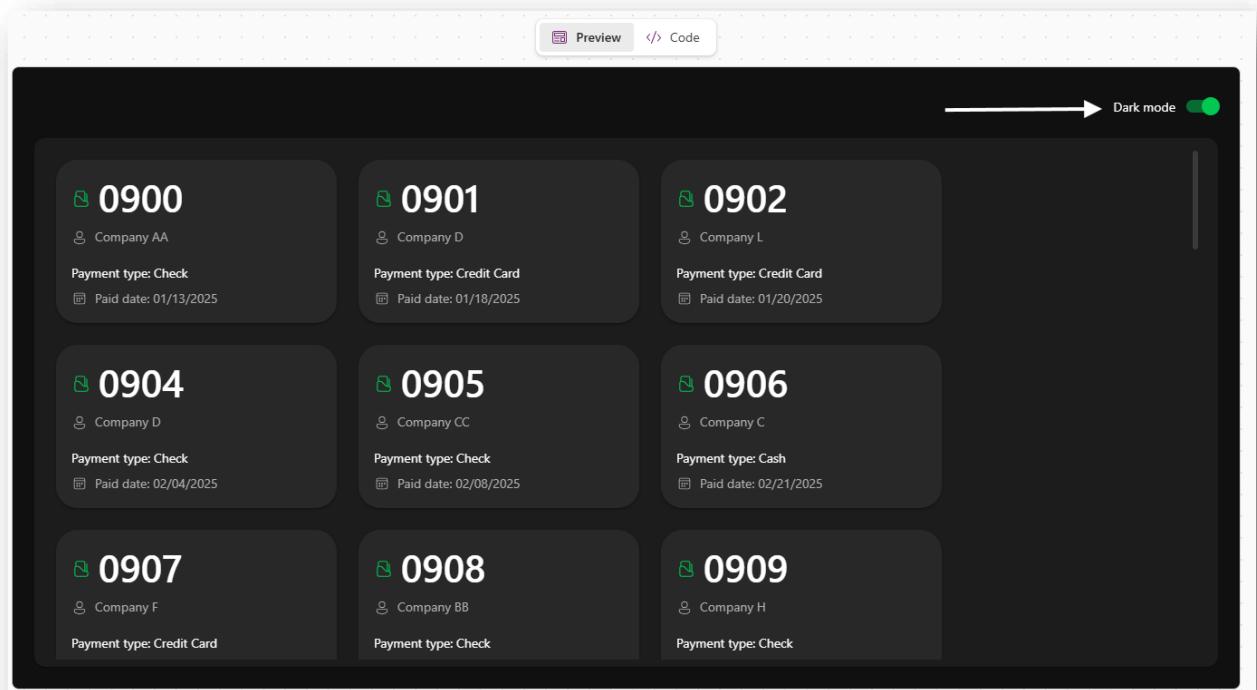
👉 Click **Send** icon

2.8 Your Gen page will be updated with a feature on top of page to toggle between light and dark mode.



Light mode

0900 Company AA Payment type: Check Paid date: 01/13/2025	0901 Company D Payment type: Credit Card Paid date: 01/18/2025	0902 Company L Payment type: Credit Card Paid date: 01/20/2025
0904 Company D Payment type: Check Paid date: 02/04/2025	0905 Company CC Payment type: Check Paid date: 02/08/2025	0906 Company C Payment type: Cash Paid date: 02/21/2025
0907 Company F Payment type: Credit Card	0908 Company BB Payment type: Check	0909 Company H Payment type: Check



Dark mode

0900 Company AA Payment type: Check Paid date: 01/13/2025	0901 Company D Payment type: Credit Card Paid date: 01/18/2025	0902 Company L Payment type: Credit Card Paid date: 01/20/2025
0904 Company D Payment type: Check Paid date: 02/04/2025	0905 Company CC Payment type: Check Paid date: 02/08/2025	0906 Company C Payment type: Cash Paid date: 02/21/2025
0907 Company F Payment type: Credit Card	0908 Company BB Payment type: Check	0909 Company H Payment type: Check

2.9 Now let's take the following actions:

1 - Rename the Page to “Orders Page”

2 - Save the Page

3 - Publish the App

4 - Play the App

The screenshot shows a UI builder interface with a dark mode theme. On the left, there is a list of items, each with a green icon, a number, and some descriptive text. The items are:

- 0900: Company AA, Payment type: Check, Paid date: 01/13/2025
- 0901: Company D, Payment type: Credit Card, Paid date: 01/18/2025
- 0902: Company L, Payment type: Credit Card, Paid date: 01/20/2025
- 0904: Company D, Payment type: Check, Paid date: 02/04/2025
- 0905: Company CC, Payment type: Check, Paid date: 02/08/2025
- 0906: Company C, Payment type: Cash, Paid date: 02/21/2025
- 0907: Company F, Payment type: Credit Card
- 0908: Company BB, Payment type: Check
- 0909: Company H, Payment type: Check

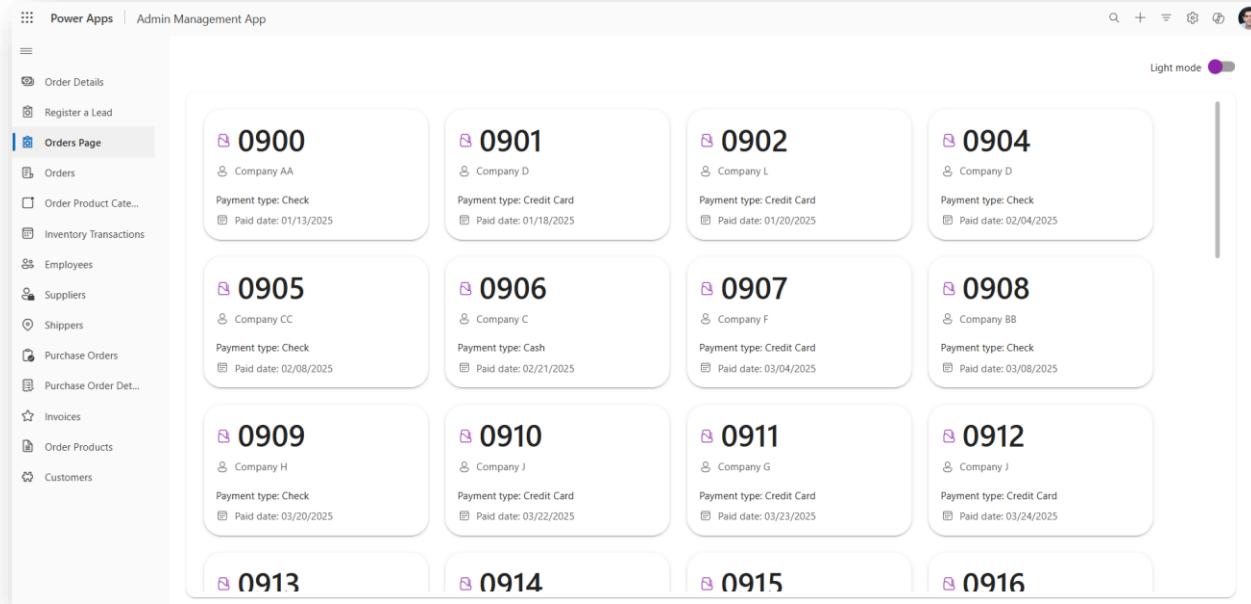
On the right, there is a sidebar with the following settings:

- Generative page 2
- Display options
- Content type: URL
- URL: /main.aspx?pagetype=control&con...
- Title: (This field is circled in purple with an arrow pointing to it)
- Icon: Default icon
- ID: subarea_b6e50829
- Advanced settings

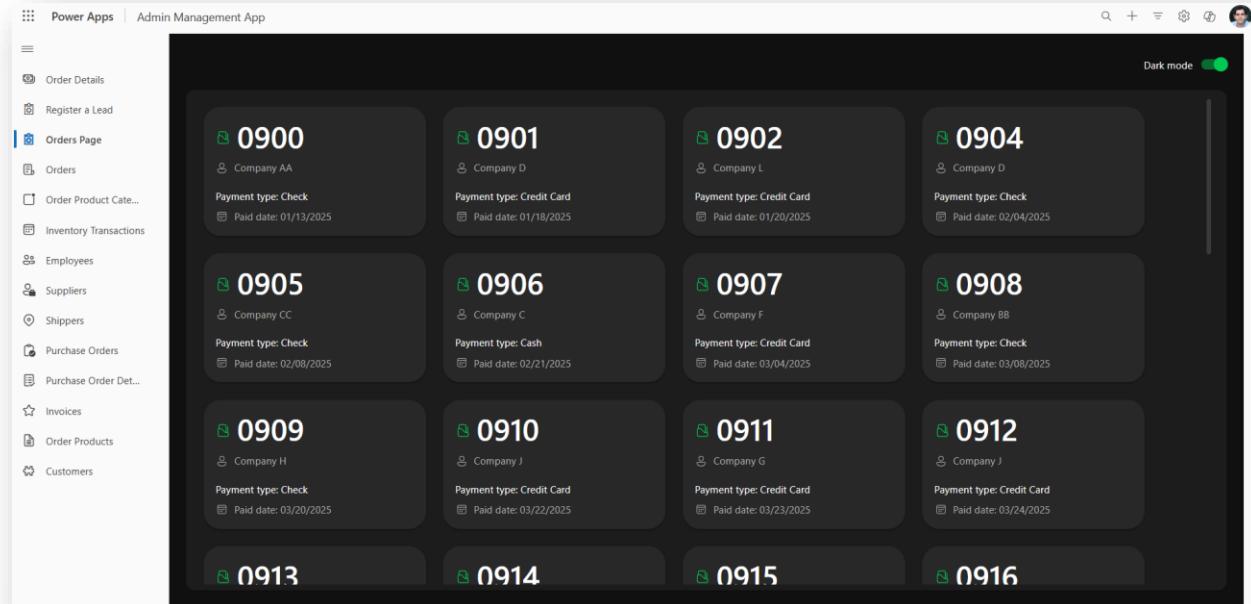
At the top right of the sidebar, there are four numbered circles (2, 3, 4) with arrows pointing to the 'Title' field.

2.10 Go to the Orders Page (Gen Page) in the App

You can see the order table details in card format. The cards are clickable and will redirect to the order form detail. We also have the option to switch between light and dark modes.



The screenshot shows the Admin Management App in Light mode. The left sidebar contains navigation links for Order Details, Register a Lead, Orders Page (which is selected and highlighted in grey), Orders, Order Product Cate..., Inventory Transactions, Employees, Suppliers, Shippers, Purchase Orders, Purchase Order Det..., Invoices, Order Products, and Customers. The main area displays a grid of 16 order cards. Each card contains an order number (e.g., 0900, 0901, 0902, 0904, 0905, 0906, 0907, 0908, 0909, 0910, 0911, 0912, 0913, 0914, 0915, 0916), a small profile icon, the company name (e.g., Company AA, Company D, Company L, Company D, Company CC, Company C, Company F, Company BB, Company H, Company J, Company G, Company J, Company H, Company C, Company F, Company G, Company J), the payment type (e.g., Check, Credit Card), and the paid date (e.g., 01/13/2025, 01/18/2025, 01/20/2025, 02/04/2025, 02/08/2025, 02/21/2025, 03/04/2025, 03/08/2025, 03/20/2025, 03/22/2025, 03/23/2025, 03/24/2025). A 'Light mode' toggle switch is located in the top right corner of the main area.



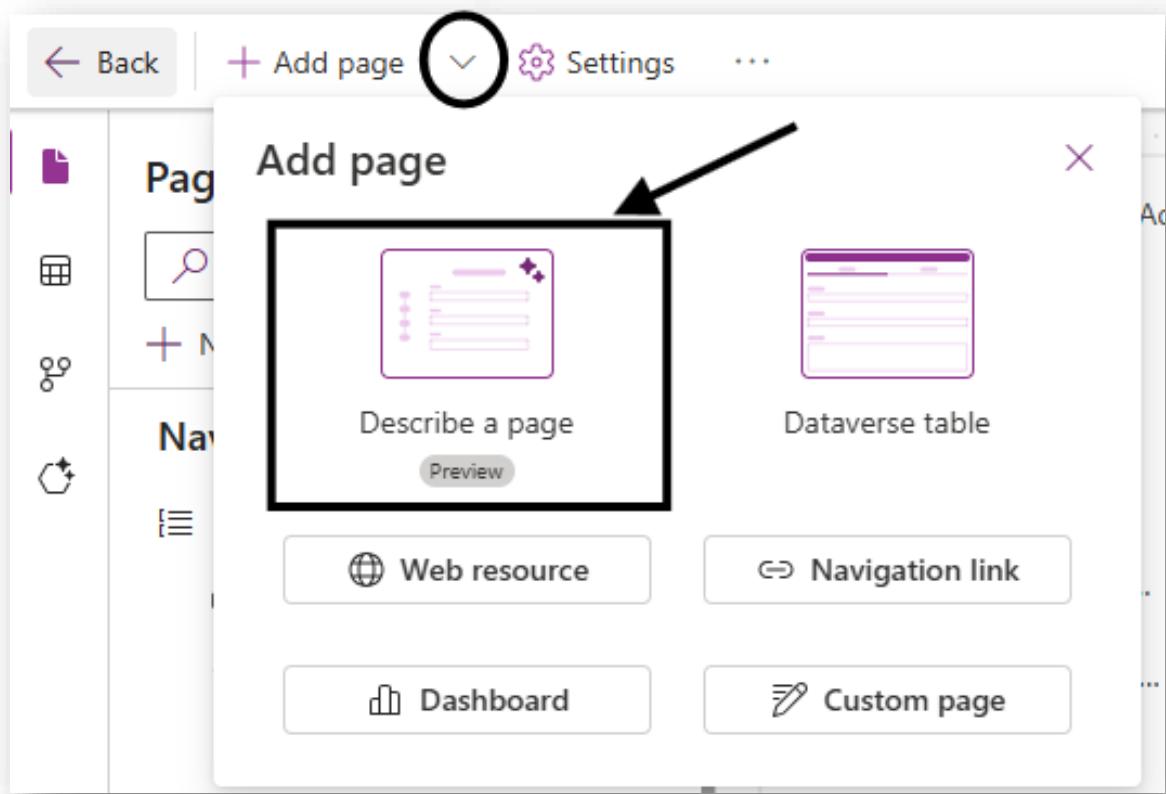
The screenshot shows the Admin Management App in Dark mode. The layout and data are identical to the Light mode screenshot, but the entire interface is rendered in a dark color scheme. The sidebar, card background, and text colors are all dark, while the profile icons and payment type/currency symbols are white. The 'Dark mode' toggle switch is located in the top right corner of the main area.

Scenario 3: Gen Page – Kanban Board with drag-drop

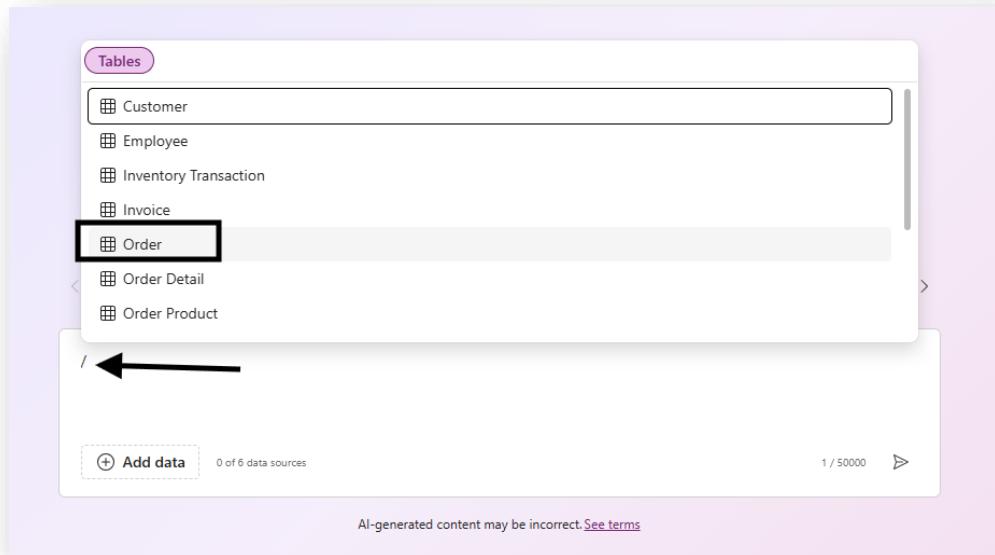
This exercise entails utilizing the App Agent to generate a page to showcase data from Orders table in a Kanban Board – categorized by Order Status – Users will be able to drag and drop items across the different Order statuses.

- 3.1 In your Admin Management Model-driven app – on top left – The **Add Page** option will show the NEW “Describe a page” feature as shown in screenshot below.

Click on “Describe a page



3.2 Add a '/' and select the Order table



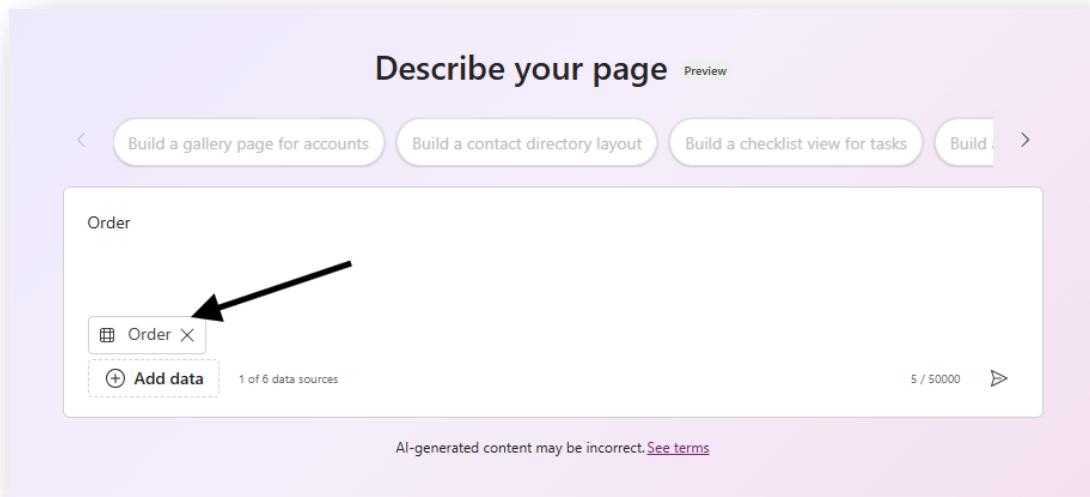
Tables

- Customer
- Employee
- Inventory Transaction
- Invoice
- Order**
- Order Detail
- Order Product

/ ←

+ Add data 0 of 6 data sources 1 / 50000 ➤

AI-generated content may be incorrect. [See terms](#)



Describe your page

Preview

< Build a gallery page for accounts Build a contact directory layout Build a checklist view for tasks Build >

Order

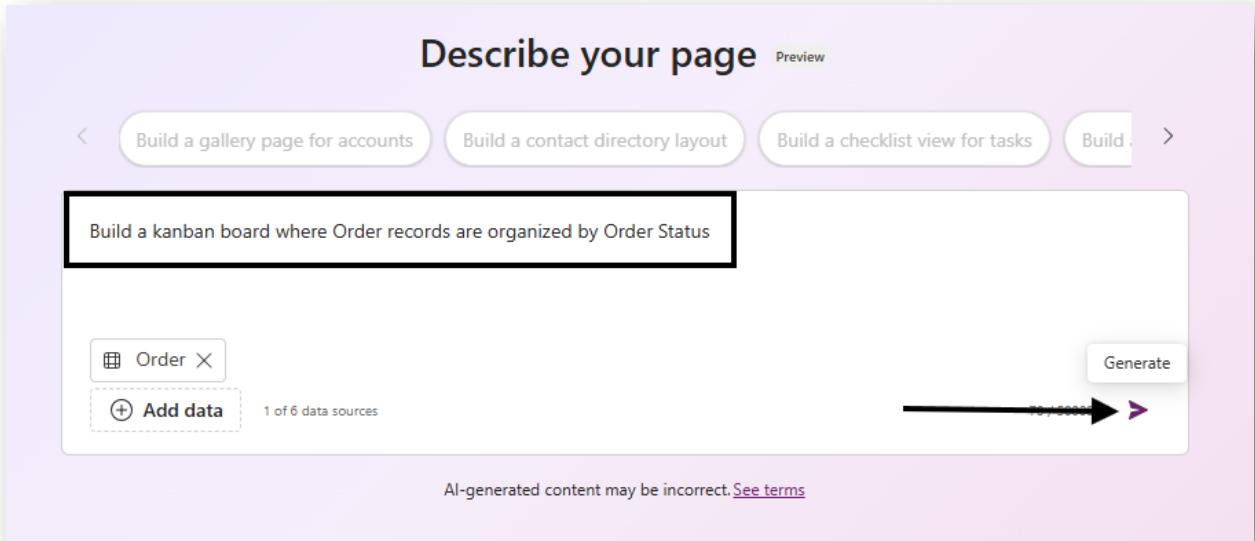
- Order** X

+ Add data 1 of 6 data sources 5 / 50000 ➤

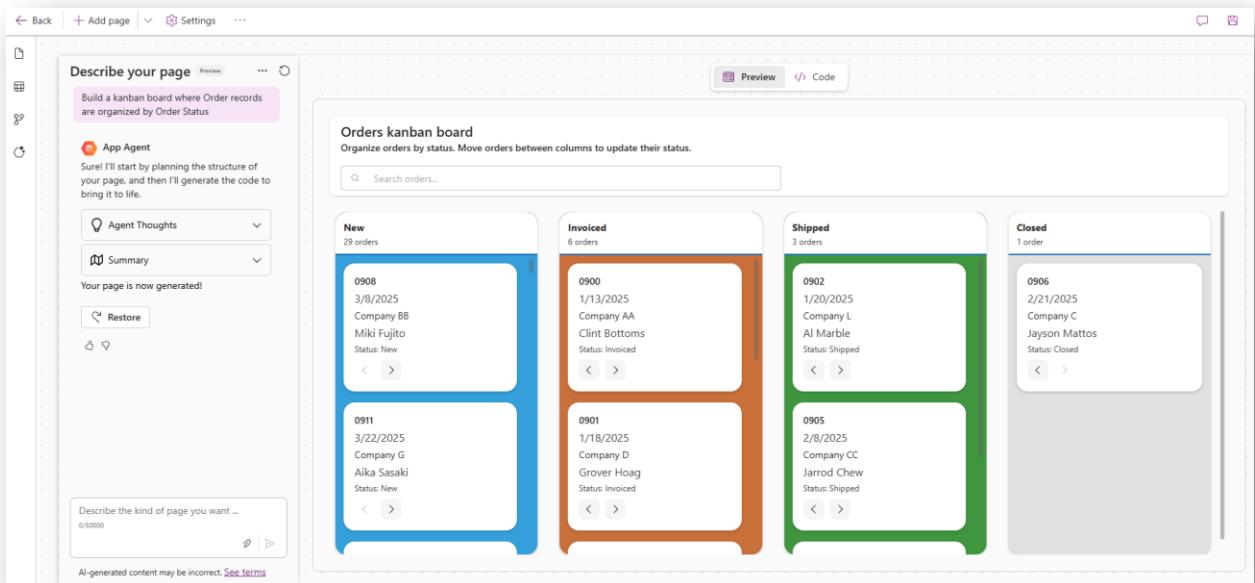
AI-generated content may be incorrect. [See terms](#)

3.3 Add the following prompt and click the Generate icon

Build a kanban board where Order records are organized by Order Status

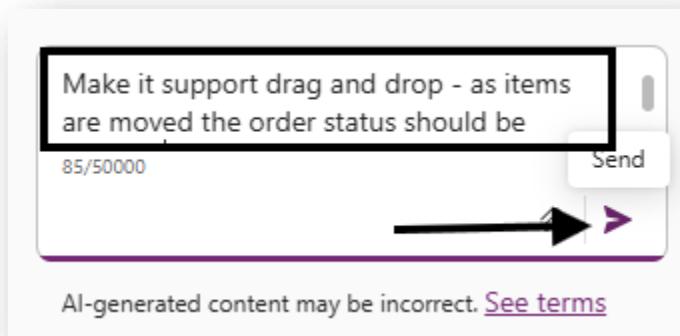


3.4 Gen Pages will build the Page preview as shown below (Note: style and design and kanban board may differ as Gen UI is building out these pages)



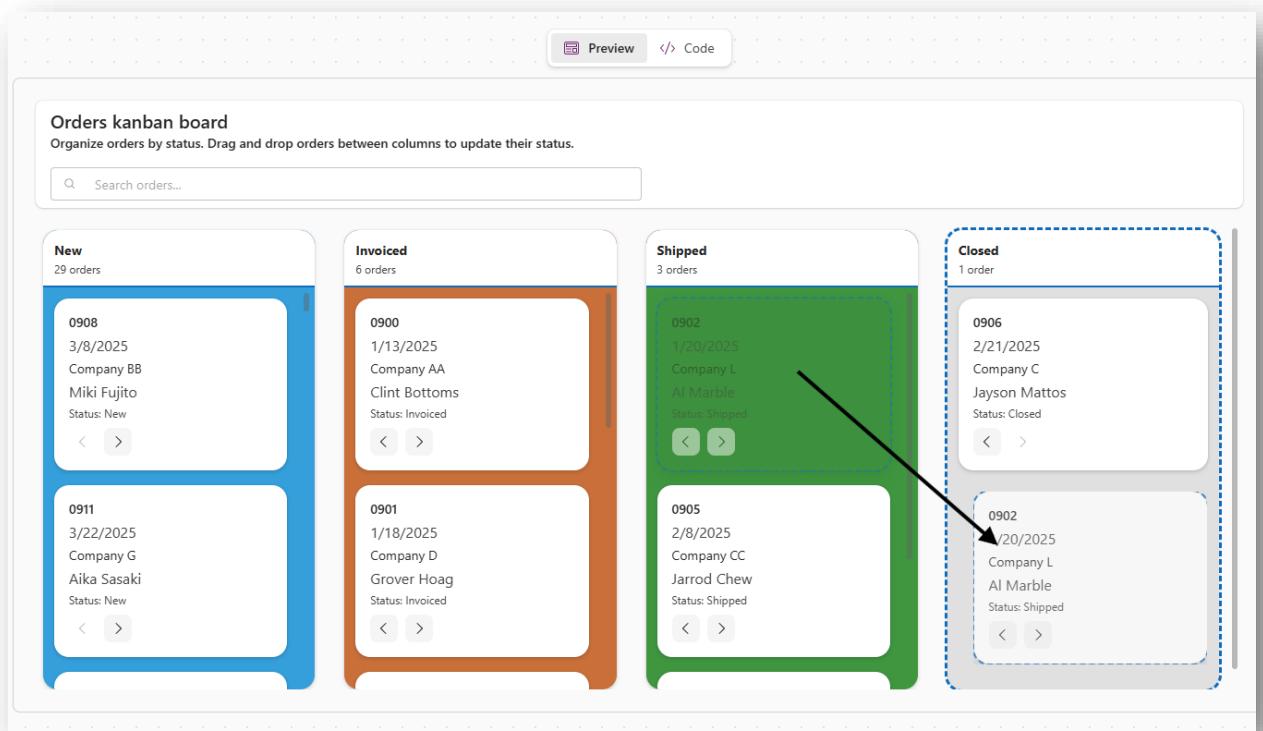
3.5 Let's add the following prompt:

Make it support drag and drop - as items are moved the order status should be updated



3.6 Gen Pages will add the drag-drop feature to your board.

Try moving the items across the different status options in preview mode



3.7 Now let's take the following steps

- 1 - Rename the Page to “Orders - Kanban Board”
- 2 - Save the Page
- 3 - Publish the App
- 4 - Play the App

Orders Kanban board
Organize orders by status. Drag and drop orders between columns to update their status.

Search orders...

New
29 orders

0908
3/8/2025
Company BB
Miki Fujito
Status: New

0911
3/22/2025
Company G
Aika Sasaki
Status: New

Invoiced
6 orders

0900
1/13/2025
Company AA
Clint Bottoms
Status: Invoiced

0901
1/18/2025
Company D
Grover Hoag
Status: Invoiced

Shipped
3 orders

0902
1/20/2025
Company L
Al Marble
Status: Shipped

0905
2/8/2025
Company CC
Jarrod Chew
Status: Shipped

Closed
1 order

0906
2/21/2025
Company C
Jayson Mattos
Status: Closed

Display options

Content type
URL
`/main.aspx?pagetype=control&con...`

Title **Orders - Kanban Board**

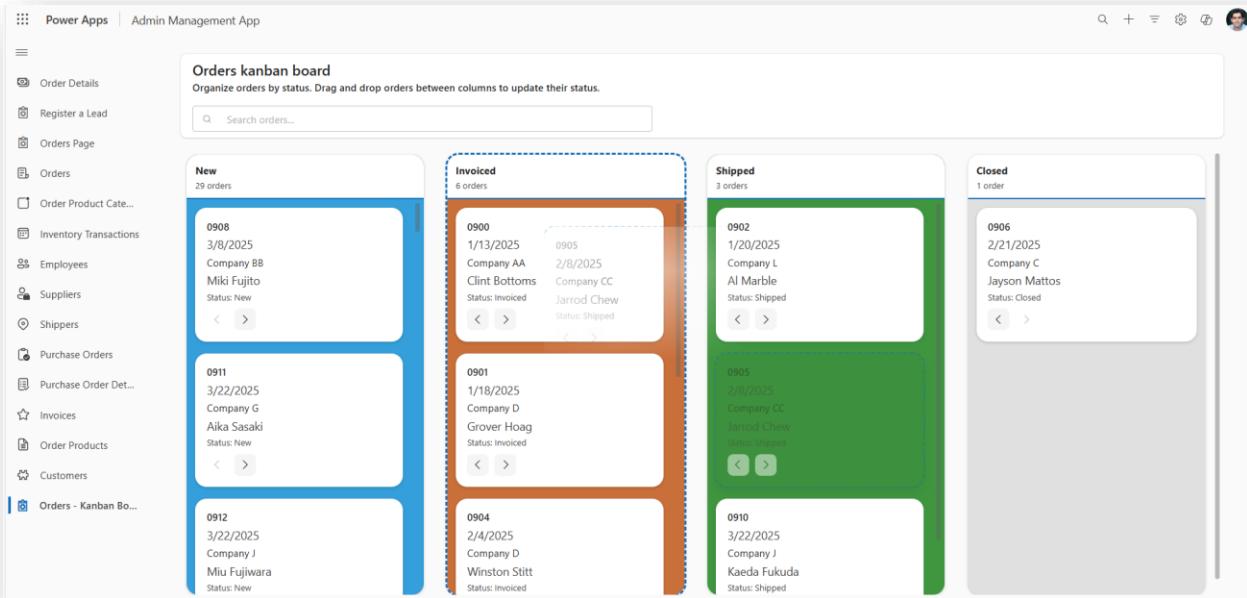
Icon
Default icon

ID *
`subarea_0e1dc9de`

Advanced settings

3.8 Go to the Orders - Kanban Board (Gen Page) in the App

You can see the Kanban board and test out the drag and drop effect



Power Apps | Admin Management App

Orders kanban board
Organize orders by status. Drag and drop orders between columns to update their status.

Search orders...

New 29 orders

0908 3/8/2025 Company BB Miki Fujito Status: New

0911 3/22/2025 Company G Aika Sasaki Status: New

0912 3/22/2025 Company J Miu Fujiwara Status: New

Invoiced 6 orders

0900 1/13/2025 Company AA Clint Bottoms Status: Invoiced

0901 1/18/2025 Company D Grover Hoag Status: Invoiced

0904 2/4/2025 Company D Winston Stitt Status: Invoiced

Shipped 3 orders

0902 1/20/2025 Company L Al Marble Status: Shipped

0905 2/8/2025 Company CC Jarrod Chew Status: Shipped

0908 2/8/2025 Company CC Jarrod Chew Status: Shipped

Closed 1 order

0906 2/21/2025 Company C Jayson Mattos Status: Closed

Orders

Order Details

Register a Lead

Orders Page

Inventory Transactions

Employees

Suppliers

Shippers

Purchase Orders

Purchase Order Det...

Invoices

Order Products

Customers

Orders - Kanban Bo...



Congratulations – You have successfully completed the Gen Pages Module