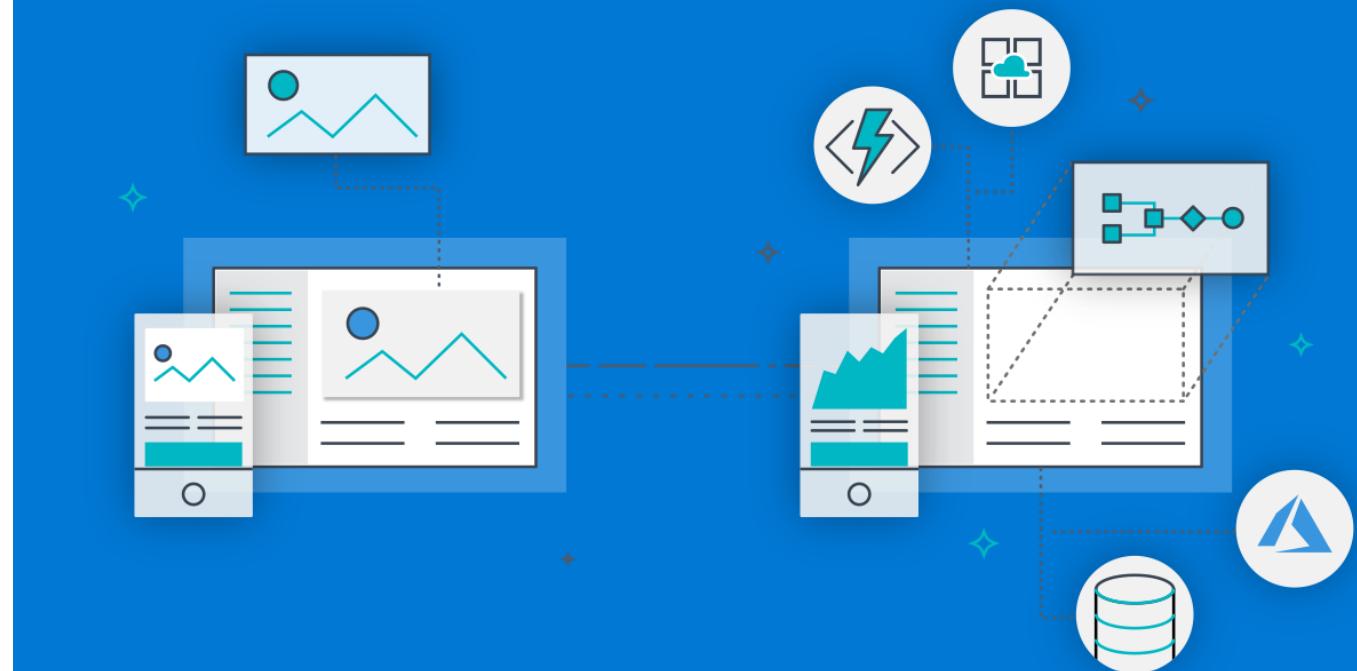


App in a Day

Business Application Platform

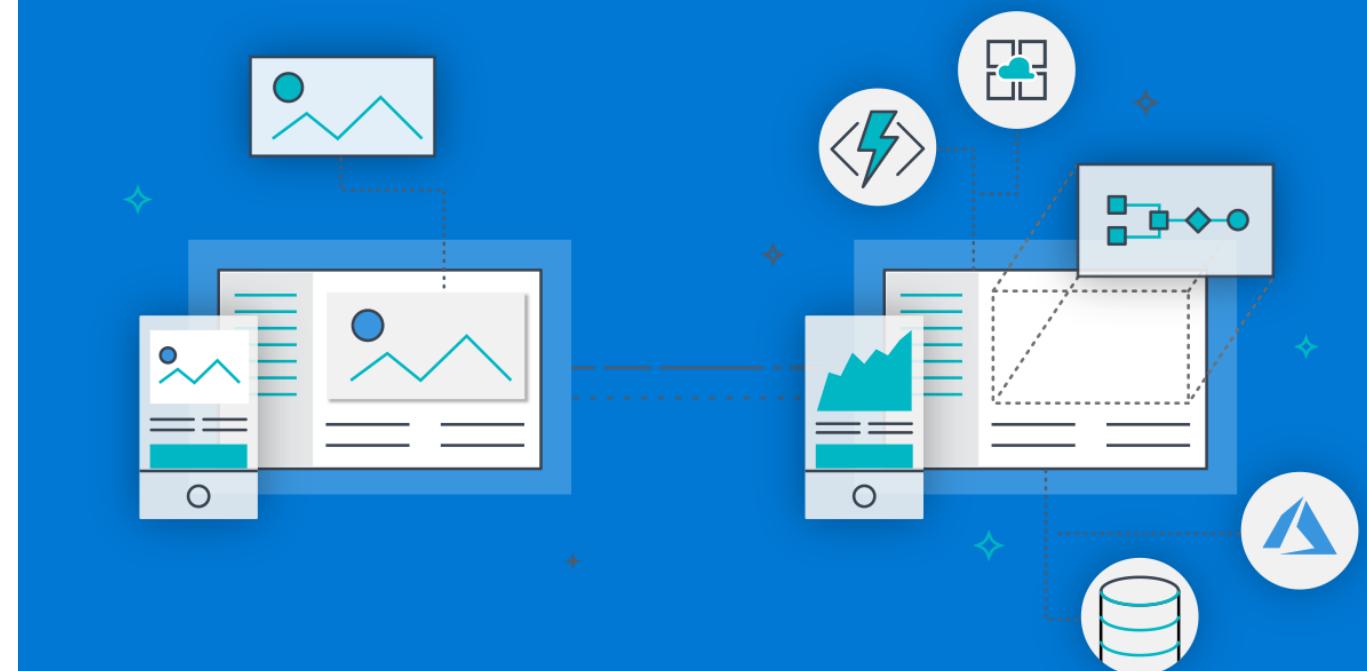
Power Apps, Power Automate
& Common Data Service (CDS)

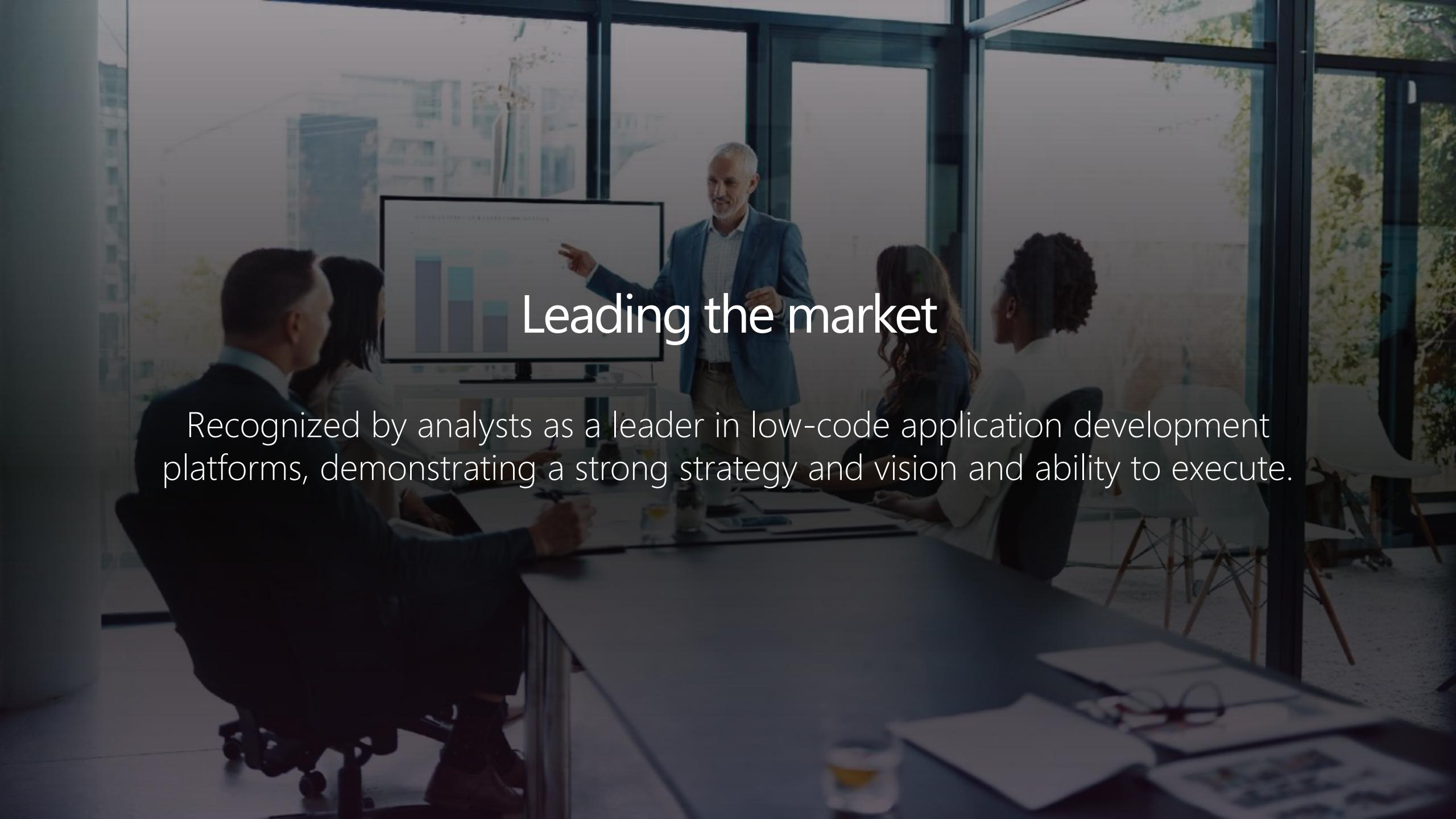
Eric Sauvé, XRM Vision





Introduction to Business Applications



A professional man in a blue blazer and white shirt stands in front of a large screen displaying a bar chart, presenting to a group of four people seated around a conference table. The office has large windows showing a city skyline. The scene is dimly lit, with the main light coming from the windows.

Leading the market

Recognized by analysts as a leader in low-code application development platforms, demonstrating a strong strategy and vision and ability to execute.

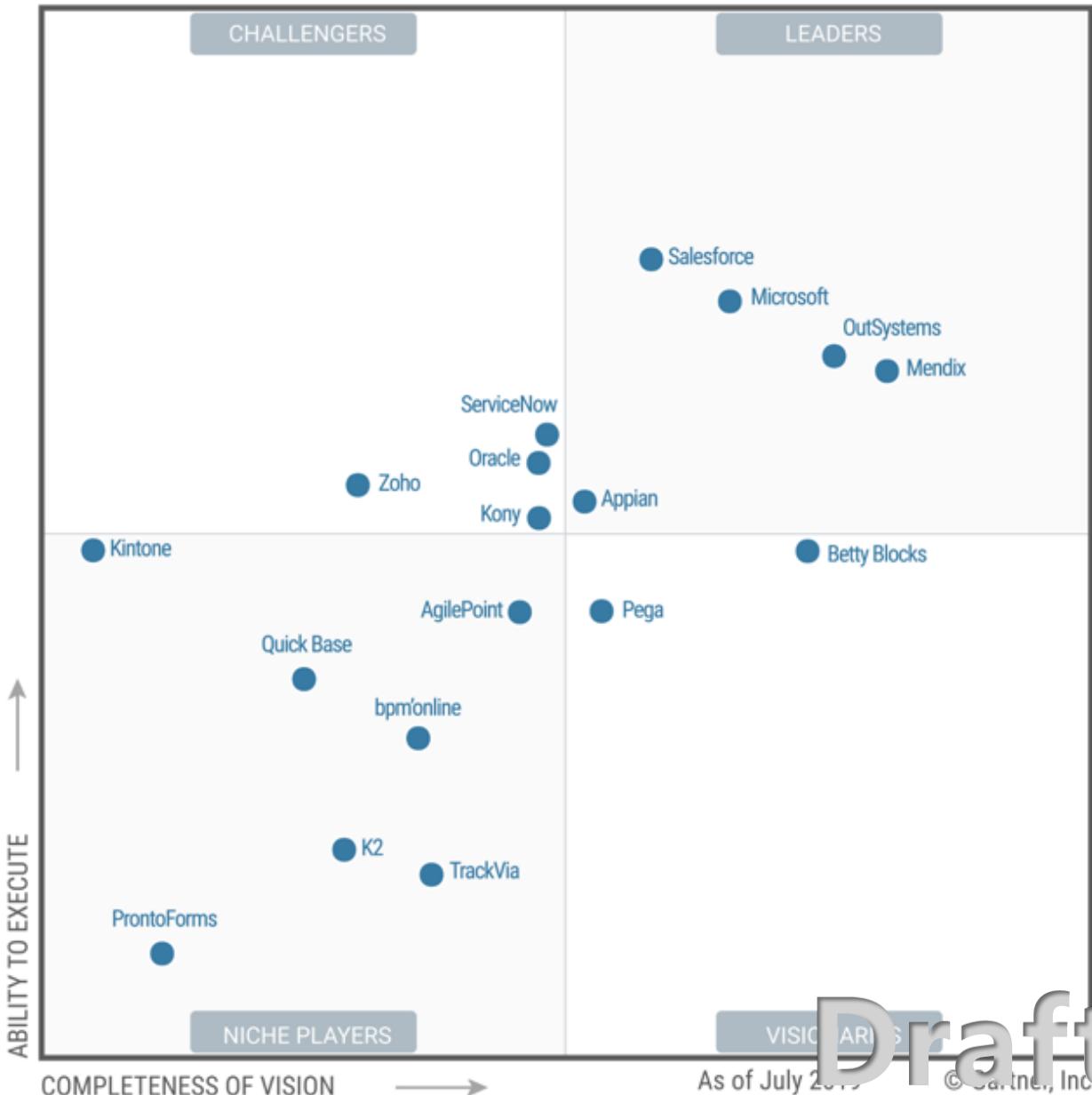


August 2019

A leader in enterprise low-code application platforms.*

*Gartner "Magic Quadrant for Enterprise Low-Code Application Platforms," by Paul Vincent, Kimihiko Iijima, Mark Driver, Jason Wong, Yefim Natis, 08 August 2019.

The graphics at right were published by Gartner, Inc. as part of a larger research document and should be evaluated in the context of the entire document. The Gartner document is available upon request from Microsoft. Gartner does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings or other designation. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose. GARTNER is a registered trademark and service mark of Gartner, Inc. and/or its affiliates in the U.S. and internationally and is used herein with permission. All rights reserved.



Forrester, Q1 2019

A leader in low-code development platforms for application development and delivery professionals.

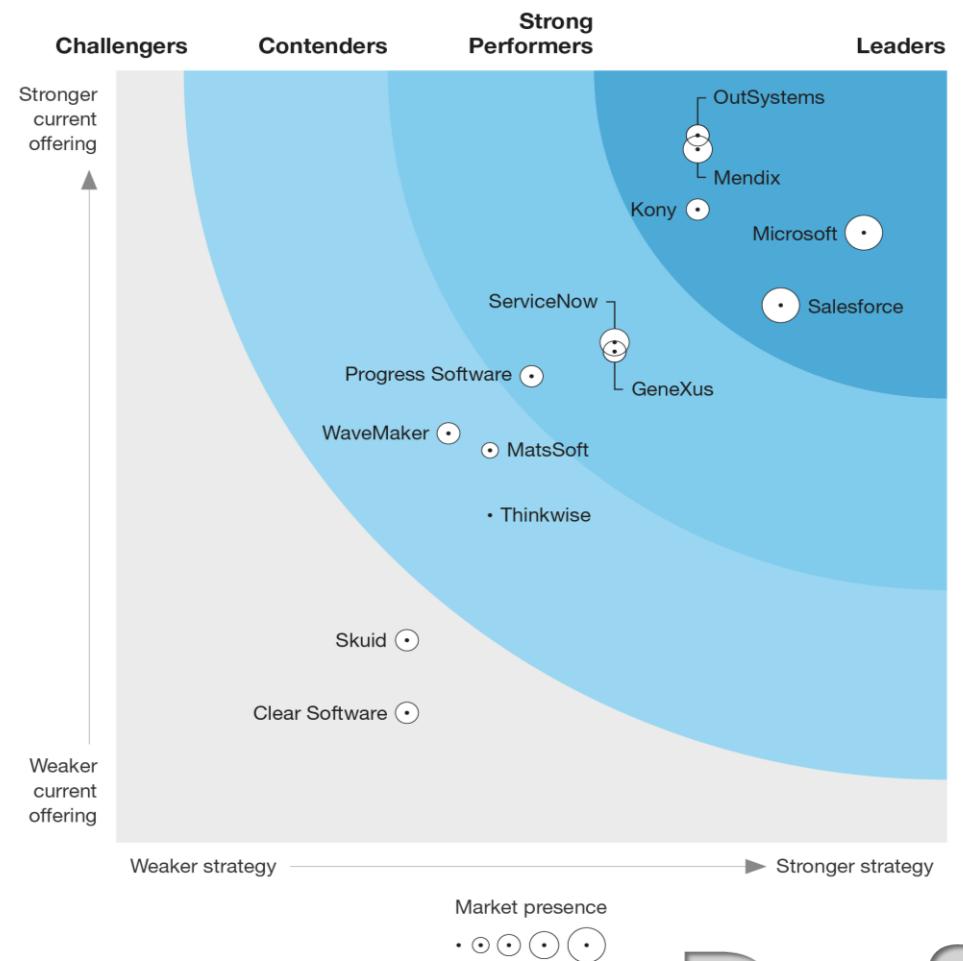
<https://reprints.forrester.com/#/assets/2/108/RES144387/reports>

FORRESTER® RESEARCH

THE FORRESTER WAVE™

Low-Code Development Platforms For AD&D Professionals

Q1 2019

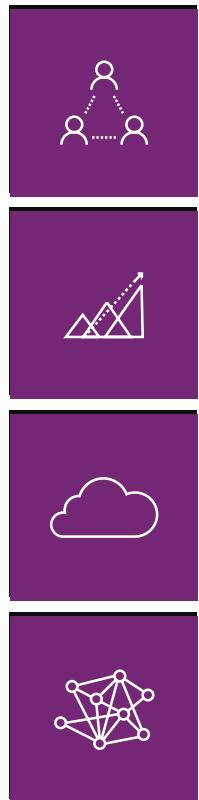


144387

Source: Forrester Research, Inc. Unauthorized reproduction, distribution, or publication is prohibited.

Draft

Power Platform Enables Digital Transformation

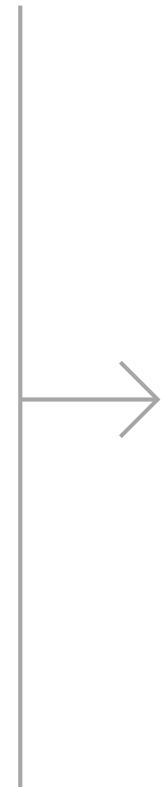


Modern workplace

Business applications

Applications & infrastructure

Data & AI



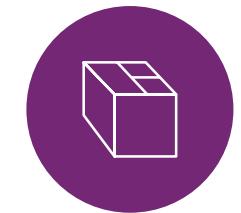
Empower employees



Engage customers



Optimize operations



Transform products

Digital Transformation shifts processes from reactive to proactive

Reactive



Proactive



Transformation

Microsoft Power Platform

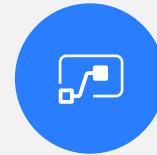
One low-code platform that spans Office 365, Dynamics 365, Azure and standalone applications



Power BI
Business analytics



Power Apps
Application development



Power Automate
Workflow automation



Power Virtual Agents
Intelligent virtual agents



**Common
Data Service**



**Data
connectors**



AI Builder

Microsoft Power Platform

One low-code platform that spans Office 365, Dynamics 365, Azure and standalone applications



Power BI
Business analytics



Power Apps
Application development



Power Automate
Workflow automation



Power Virtual Agents
Intelligent virtual agents



**Common
Data Service**



**Data
connectors**

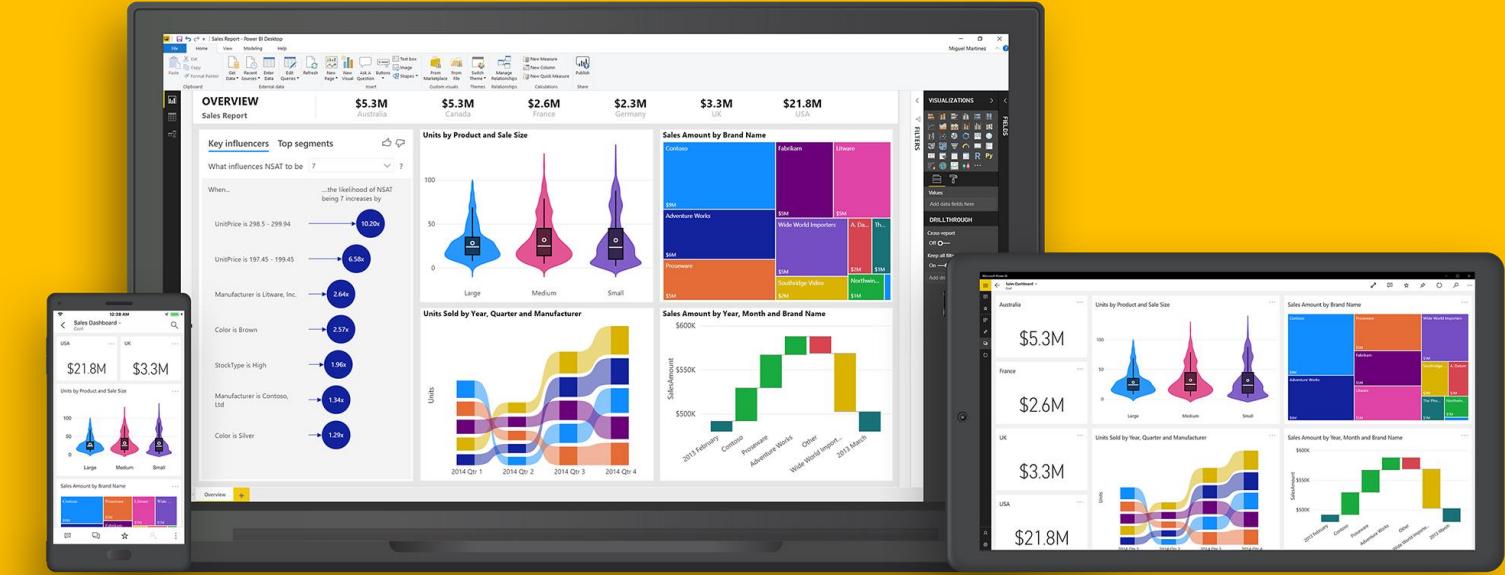


AI Builder



Experience your data with Power BI

- Make sense of your data with ease, and drive quick and confident decisions across your organization
- Reduce the amount of time spent in data prep and spend more time getting answers with AI-driven insights
- Remove the complexity of managing multiple analytics solutions with a single, unified platform that gives every employee access to insights





Anatomy of a dashboard

Any data

Connect to any data source to find the best insights and answer tough business questions.

Share insights with anyone

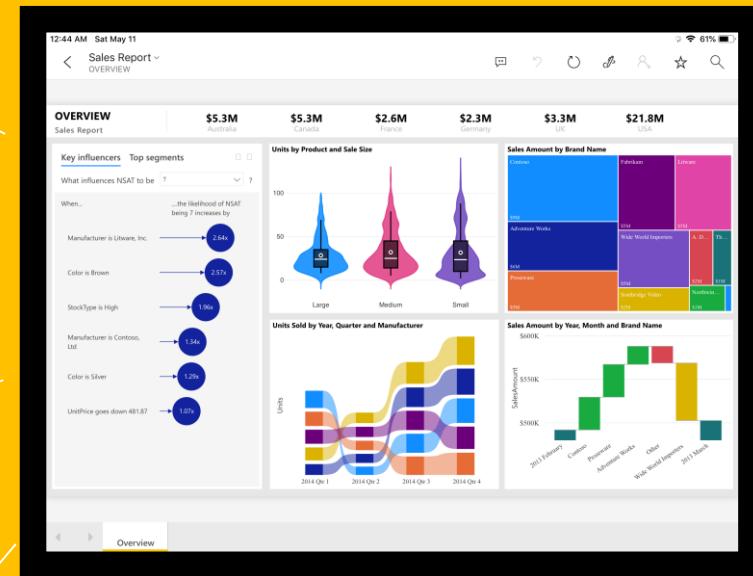
Share on prem, in the cloud, and mobile devices; even with those outside your organization

Seamless integrations

Directly integrated with Power Automate, Power Apps, Microsoft Teams, Office 365, Dynamics 365 & Azure

Extensibility model

No limits. Embed insights into everyday user apps to build a data culture throughout your org



WYSIWYG design experience

PowerPoint like pixel perfect drag and drop design experience. Start from a template, report is running with live data as you build it

Data visualizations

Select from hundreds of data visualizations or build your own to bring your data story to life

Native intelligence

Ask questions of your data, deliver automated insights; all visualized in the context of your business

Big data support with Azure

Leverage Azure Data Services like Date Lake and SQL Data Warehouse to optimize analysis big data

Microsoft Power Platform

One low-code platform that spans Office 365, Dynamics 365, Azure and standalone applications



Power BI
Business analytics



Power Apps
Application development



Power Automate
Workflow automation



Power Virtual Agents
Intelligent virtual agents



**Common
Data Service**



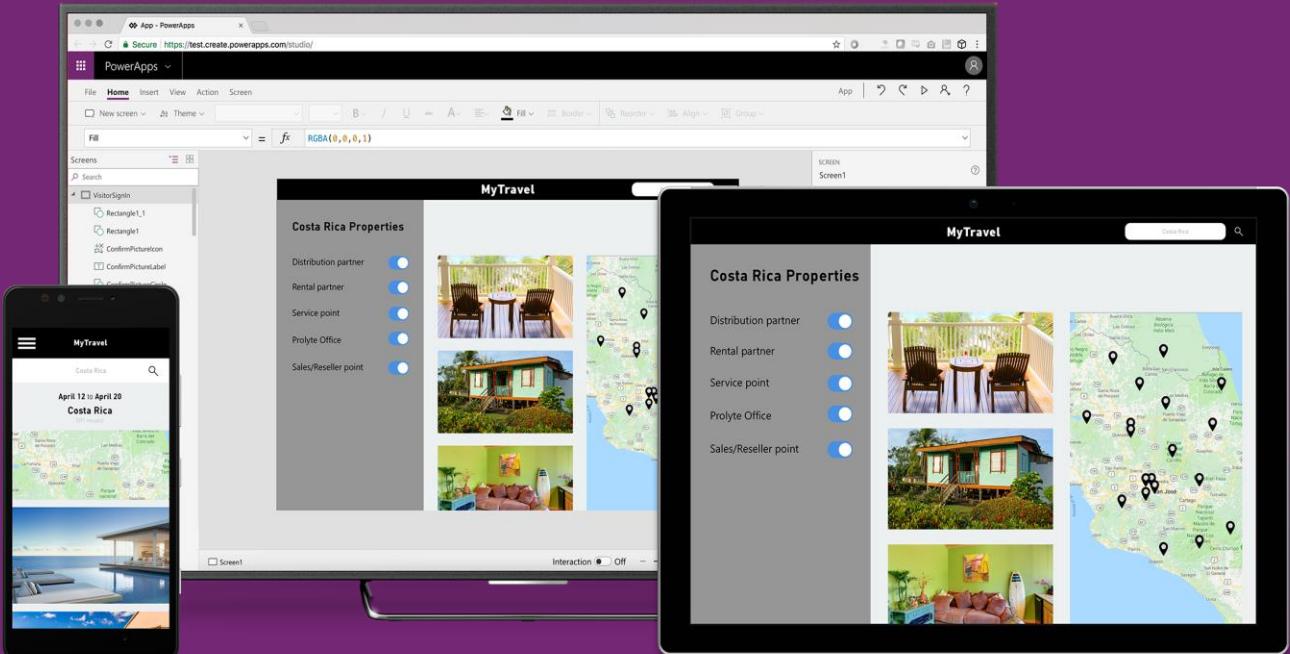
**Data
connectors**



AI Builder

Build apps for web and mobile with Power Apps

- Easily build web & mobile apps with a full featured low-code/no-code development experience
- Empower business users to solve their own problems and easily share apps while maintaining security & governance
- Pro developer extensibility enables a “no limits” platform that spans business users to professional developers





Anatomy of an app

Any platform support

Supports all major platforms and gives native access to device capabilities like camera, GPS, pen & ink

Share apps like documents

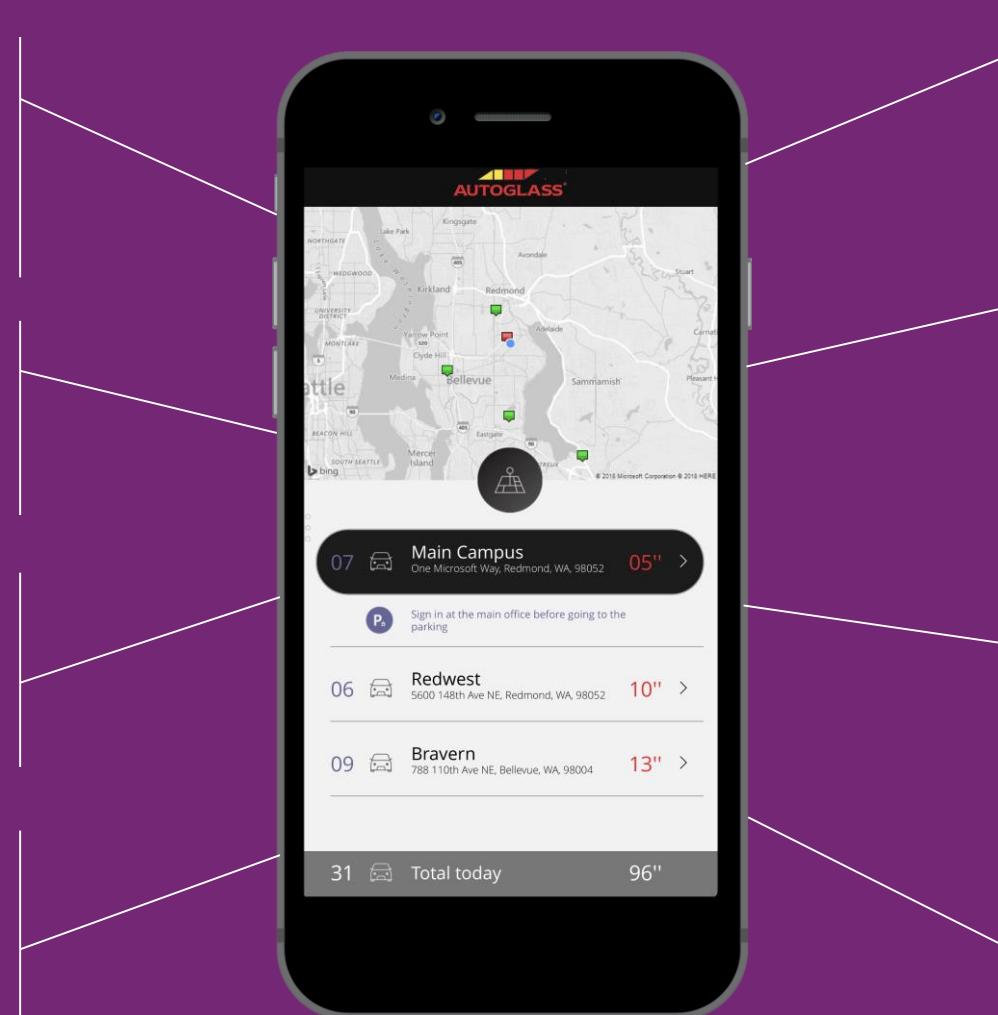
Share your app with 3 clicks and an email address. It's pushed to mobile devices in seconds

Seamless integration

Directly integrated with Power Automate, Power BI, Microsoft Teams, Office 365, Dynamics 365 & Azure

Extensibility model

No limits. Get a pro-dev to build you a control or connector if you need something custom



WYSIWYG design experience

PowerPoint like pixel perfect drag and drop design experience. Start from a template, app is running with live data as you build it

Data connectivity

Connect to over 250 services and apps with built-in connectors for everything from Adobe, to ZenDesk, to on-prem

Built-in data platform

Use Common Data Service to store app data in a standardized Common Data Model

App logic

If you can understand formulas in Excel you can add logic to your Power App. Leverage AI Builder to democratize AI in your org

Microsoft Power Platform

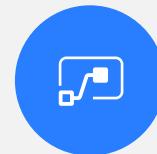
One low-code platform that spans Office 365, Dynamics 365, Azure and standalone applications



Power BI
Business analytics



Power Apps
Application development



Power Automate
Workflow automation



Power Virtual Agents
Intelligent virtual agents



**Common
Data Service**



**Data
connectors**

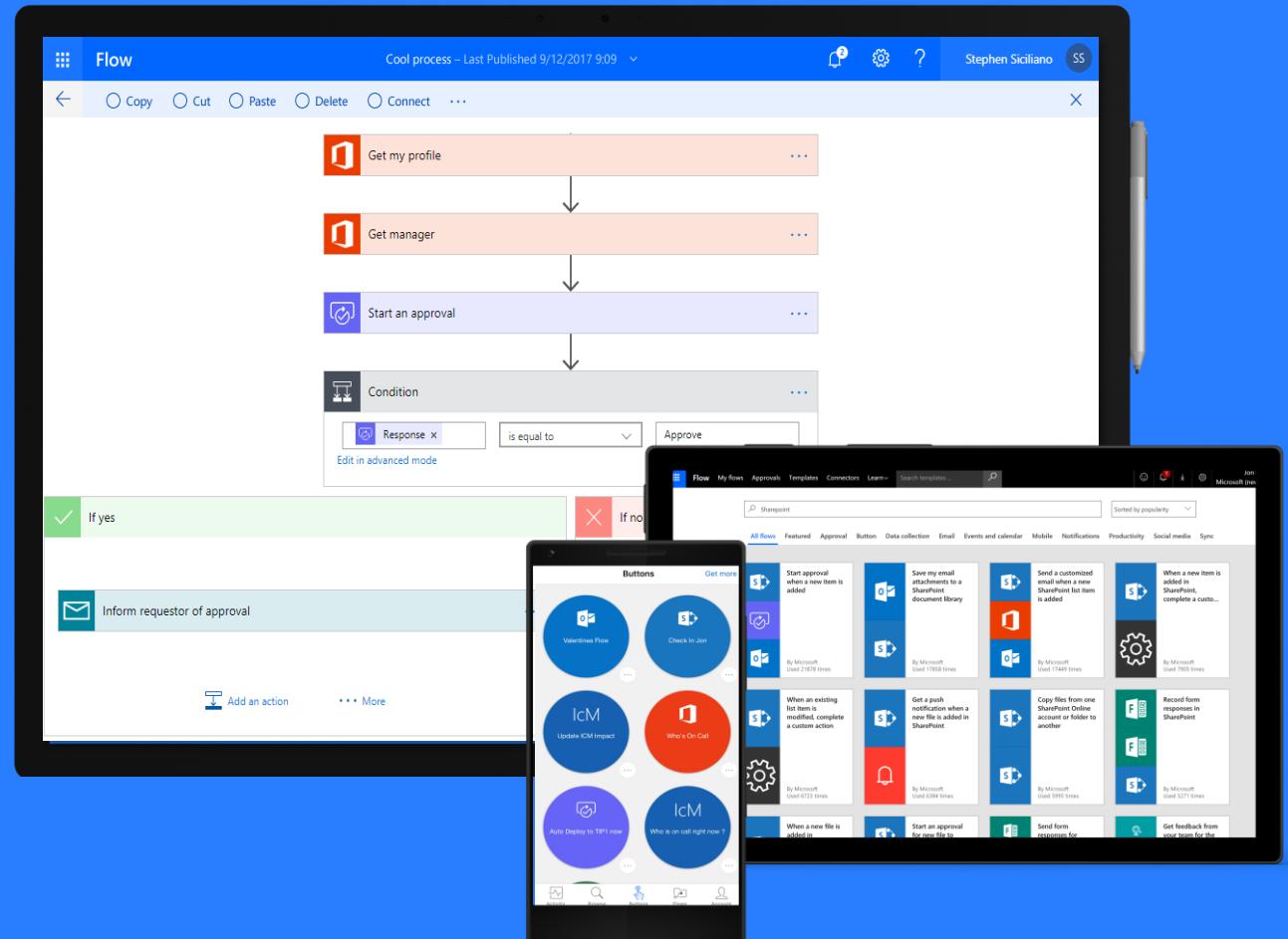


AI Builder

Automate and integrate business processes with Power Automate



- Model business processes and automate workflows and your apps and services
- Deep and broad, from simple individual automation to advanced org scenarios with branches, loops, and more
- Trigger actions, grant approvals, and get notifications right where you work



Anatomy of a workflow



Any platform support

Supports all major platforms, available on the web or with mobile on the go

Share flows like documents

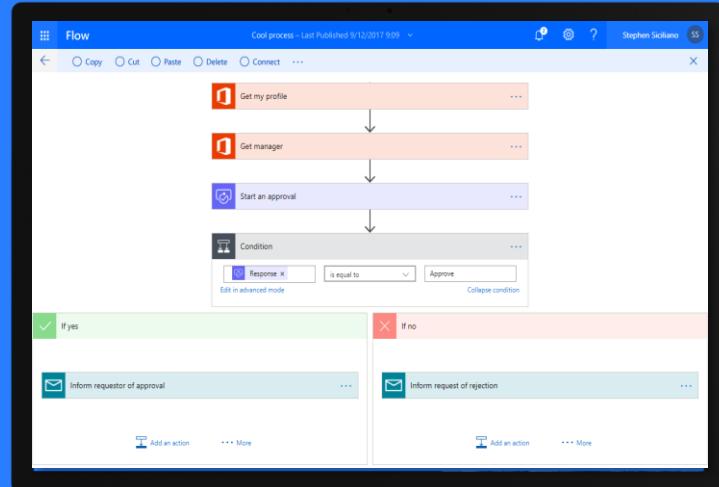
Share your flow with 3 clicks and an email address. It's pushed to users in seconds

Seamless integration

Directly integrated with Power Apps, Power BI, Microsoft Teams, Office 365, Dynamics 365 & Azure

Extensibility model

No limits. Automate advanced scenarios with multiple steps, branching conditions and more. Synchronize files between 1st and 3rd party systems seamlessly



WYSIWYG design experience

PowerPoint like drag and drop design experience. Start from a template, flow is running with live data as you build it

Data connectivity

Connect to over 250 services with built-in connectors for everything from Adobe, to ZenDesk, to on-prem

Built-in data platform

Use the Common Data Service to store app data in a standardized Common Data Model

Logic and automation

Build flows that monitor and execute actions, leverage AI Builder to democratize AI, send emails automatically, notify people in processes

Microsoft Power Platform

One low-code platform that spans Office 365, Dynamics 365, Azure and standalone applications



Power BI
Business analytics



Power Apps
Application development



Power Automate
Workflow automation



Power Virtual Agents
Intelligent virtual agents



**Common
Data Service**



**Data
connectors**



AI Builder

Build Intelligent no code chatbots with Power Virtual Agents



- Empower your subject matter experts to easily create powerful bots using a guided, no-code graphical interface
- Engage with customers and employees conversationally
- Point PVA to your website, and our AI will automatically build topics to get started with
- Connect to your backend systems using hundreds of connectors that come with Power Platform

The screenshot displays the Power Virtual Agents interface. On the left, a "Test chat" window shows a conversation with a user named "luca@email.com". The bot has responded with information about a SmartPrinter X purchase and offers to contact the user directly. The user can choose "Yes" or "No". Below the test chat is a text input field "Enter your response here". On the right, the "SmartPrinter X troubleshooter" bot flow is visible. It starts with a condition (ConfirmPrinter(text) Equals Yes). If "Yes", it asks a question about contacting the printer. If "No", it sends a message apologizing and offering to connect the user to a human agent. The flow then branches into two conditions based on the user's response ("Yes, please look up the issue for me" or "No, I'll describe the issue myself"). Finally, it includes a "Transfer to agent" step with an optional message.

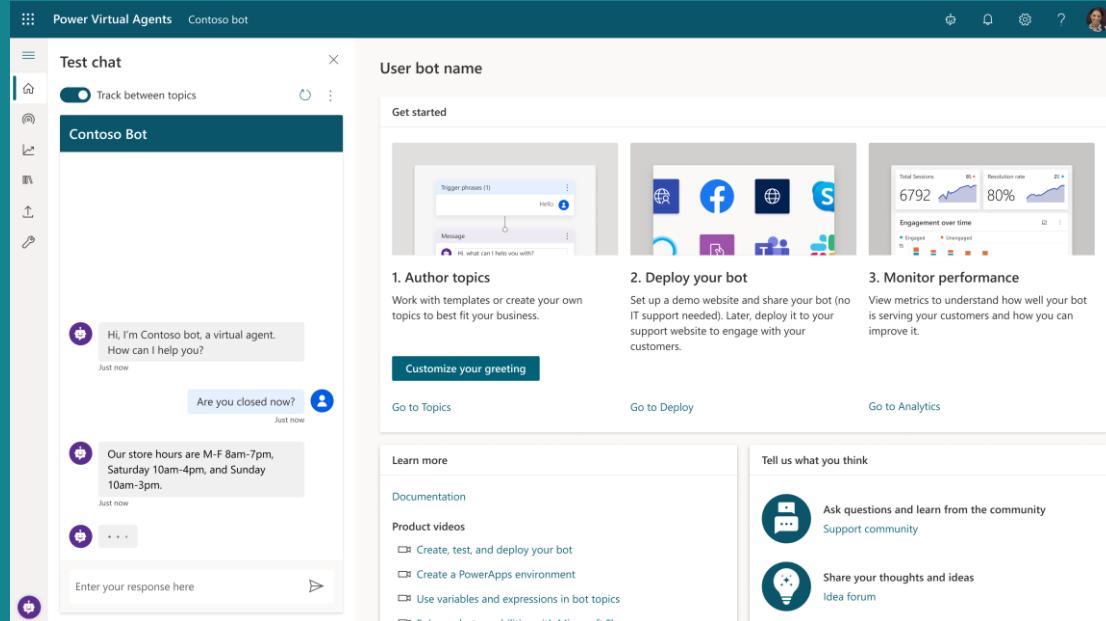
Anatomy of a dashboard



Create chatbots using simple, graphical interface

Extract starter topics from FAQs
websites, etc.

Author rich topics with slot filling,
variables, entity extraction,
dynamic dialog and more



Monitor and continuously improve chatbot's performance using AI and data driven insights available in an easy to read dashboard

Deploy chatbot to a website, an Azure Bot Framework channel or integrate it within a Power App

Extend your chatbot with Microsoft Azure Bot Framework Skills for complex scenarios



Anatomy of a virtual agent

Available Any Time

Improved customer satisfaction with 24/7 self-help and rich bot conversations.

Reduced Costs

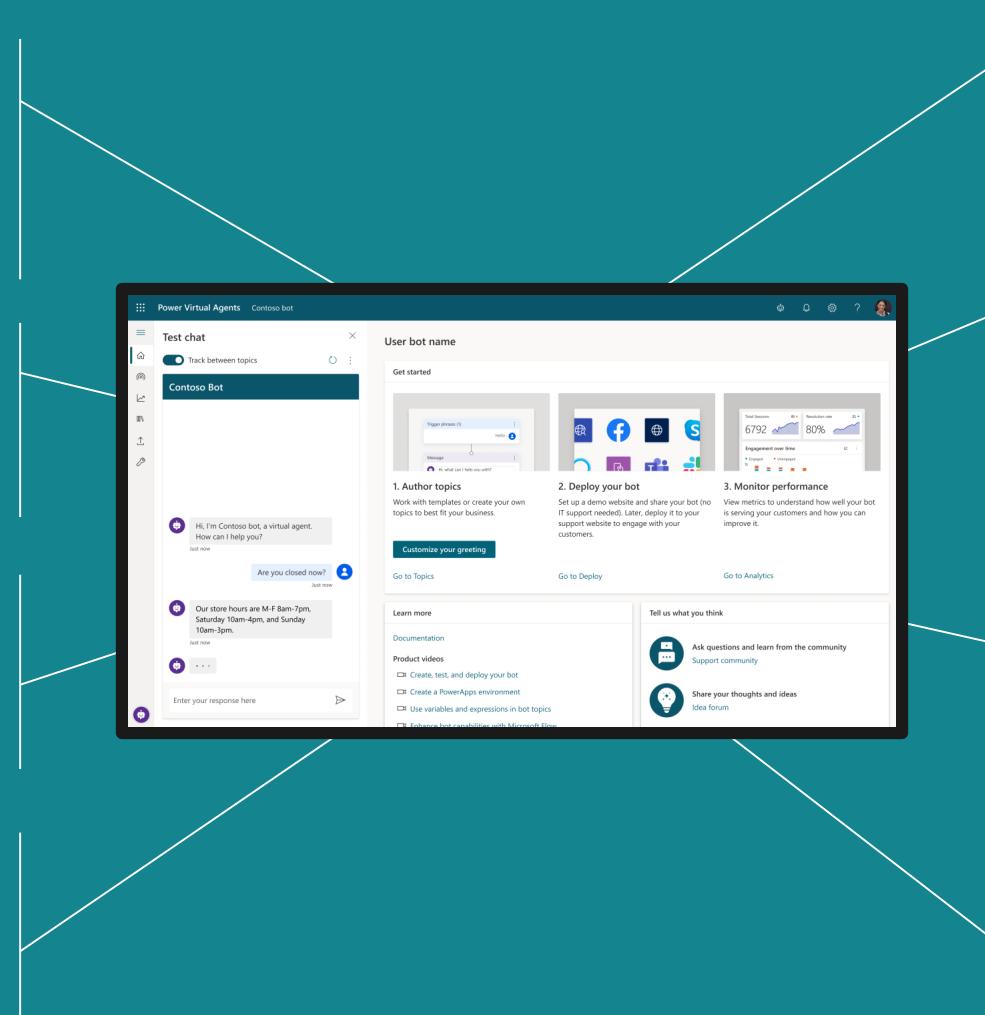
Build a bot in four easy steps to address common inquiries. Free up valuable resources to focus on the more complex issues.

Interface Anywhere

Meet your audience where they are by publishing your bot to Teams, Slack, Facebook, and many other channels.

Intuitive Design Interface

No need for AI expertise. Code-free graphical interface puts the power in the hands of your Subject Matter Experts.



Natural Language Conversations

Powerful AI capabilities allow for multi-turn conversations using every-day language.

Take Action

Connect to over 250 services and apps through Power Automate to empower your bot to do more than just chat.

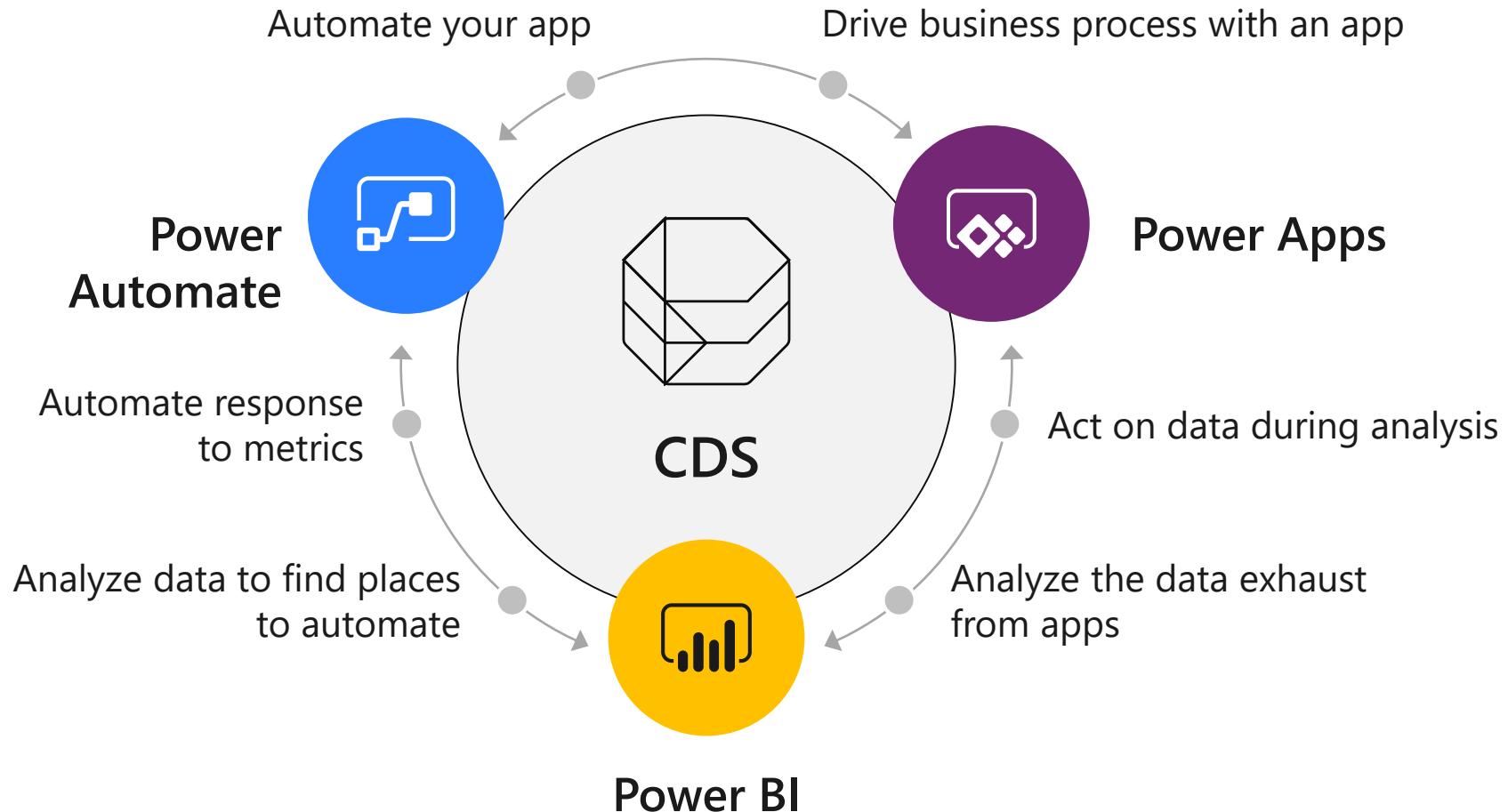
Powerful Analytics

Monitor bot performance with powerful metrics AI-driven dashboards.

Valuable Insights

Pair with Dynamics 365 Customer Service Insights to determine trending topics to automate.

The total is greater than the sum of the parts...



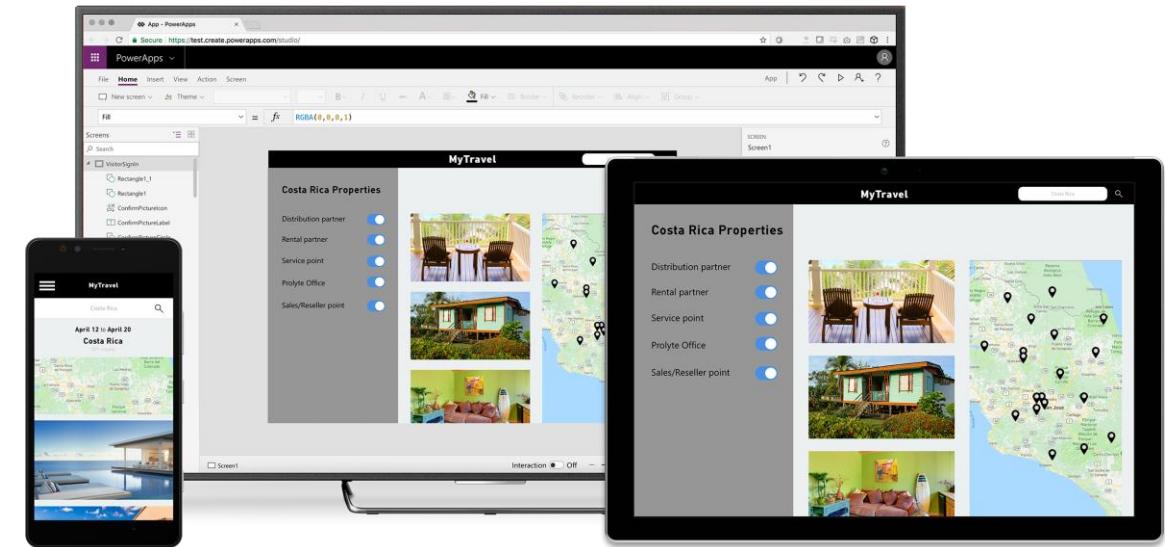
Innovate faster with a low-code platform

Reduce time & cost building business applications

Extend your system of record to simplify processes and remove silos

Reduce errors by automating manual processes

Consolidate siloed LOB application and improve business processes



A unique approach to building business apps



Easily build apps with a full featured low-code / no-code platform



Connect to all your data with pre-built and custom connectors



Enrich and extend your data with the Common Data Service, AI Builder, and Portals



Dynamics 365, Azure, Power BI, Power Automate, and Office 365 integration



Strong enterprise governance and security



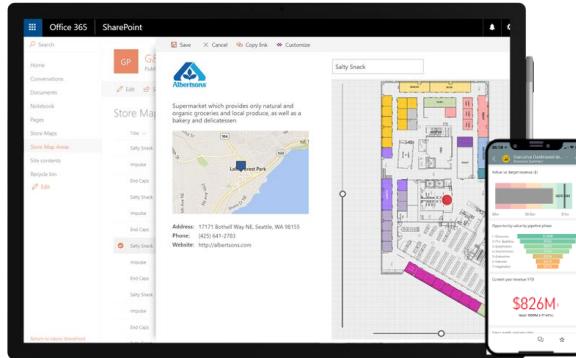
Pro developer extensibility and ALM

The image displays the Microsoft PowerApps platform interface on a desktop computer screen and a mobile phone. The desktop screen shows the 'PowerApps' application with a 'Device Ordering App' screen. This screen features a grid of device images and their details. The mobile phone shows the same 'Device Ordering App' screen, which is a responsive version of the desktop app. The desktop interface includes a navigation bar at the top, a left sidebar for 'Screens' and 'Items', and a right sidebar for 'Properties' and 'Data'. The mobile phone has a standard iOS-style navigation bar at the bottom.

Customize, extend, and build all the apps you need

Seamless Dynamics 365, Office 365, and Azure integration along with connectors to more than 250 data sources

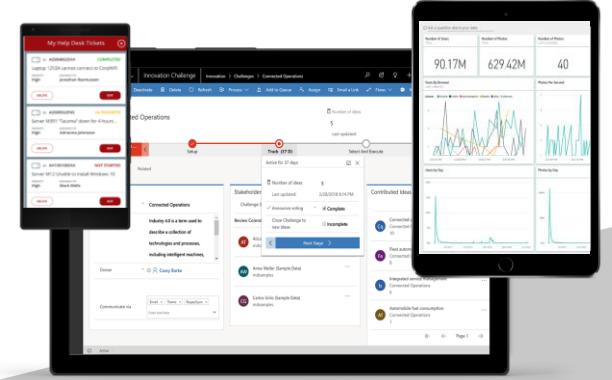
Tailor out-of-the-box solutions, embedded forms and dashboards



Highly customized task- and role-based apps



Immersive, end-to-end solutions



SOPHISTICATION

Customer momentum: Power BI



Retail and consumer goods



Discrete manufacturing



Government and education



Healthcare



Until no child has AIDS.



Banking and financial services



Professional services

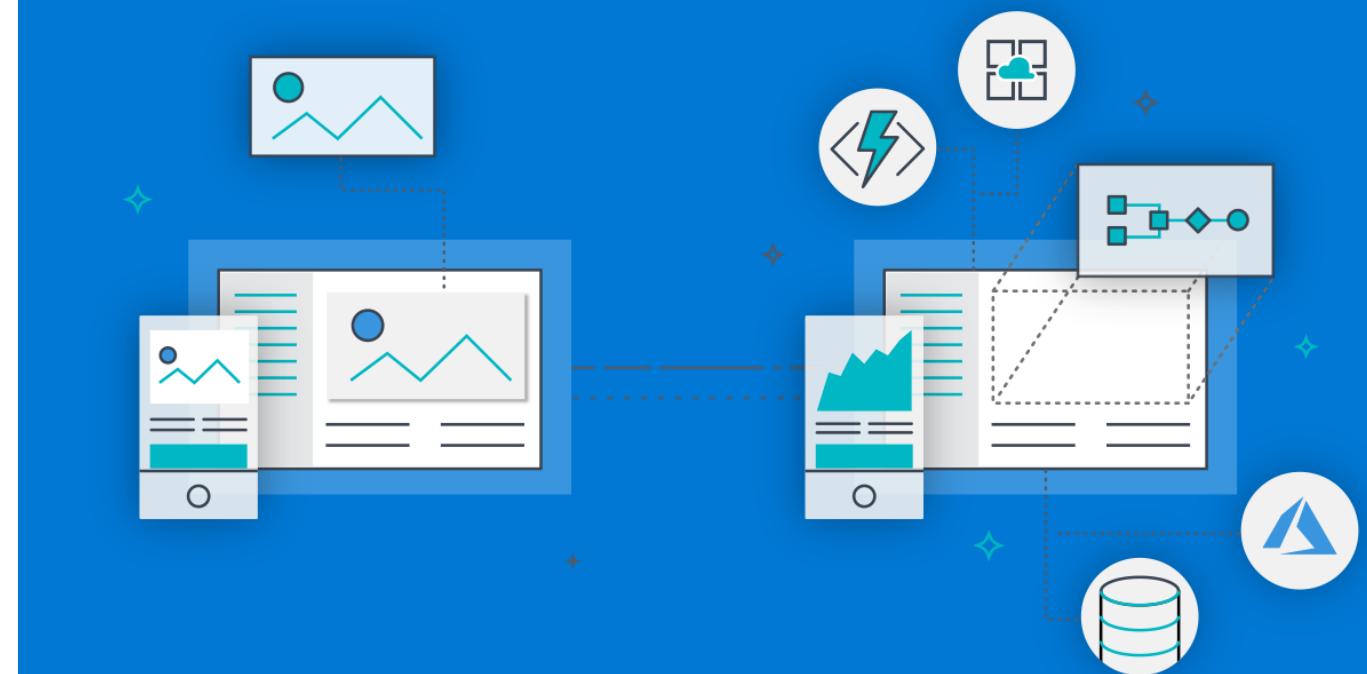


Technology systems and services





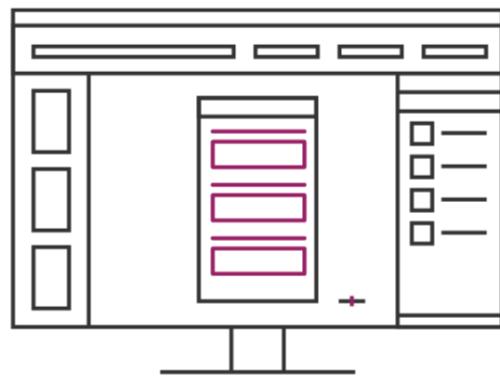
Introduction to Canvas apps



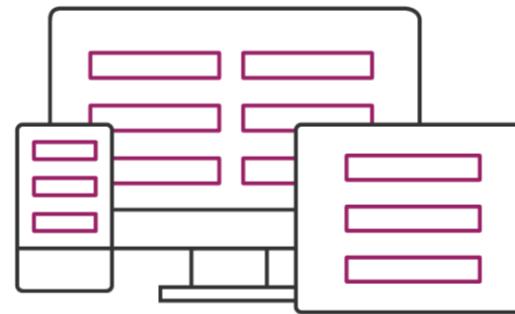
Canvas Apps help business-power-users to create and use custom business apps across platforms using Excel and PowerPoint skills



Connect to data & systems you're already using *easily*

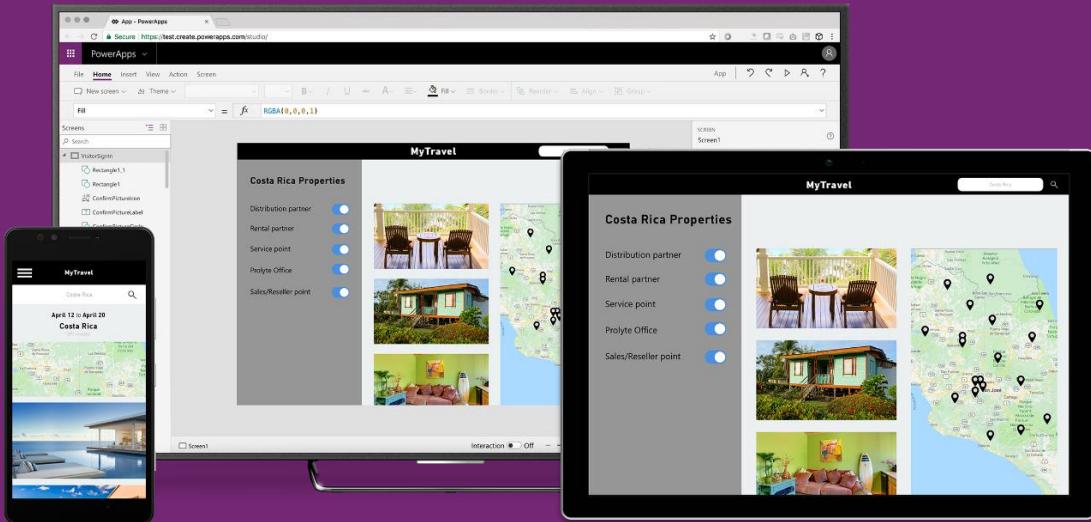


Create apps, forms, and workflows *without writing code*



Use apps *on any device* – both web and mobile

Apps for web and mobile



Build **standalone** web and mobile apps, or **customize** existing apps in Office 365 and Dynamics 365 to deliver a seamless experience **across channels**

Craft **pixel-perfect experiences** from a blank canvas for highly customized, task and role-based apps

Generate immersive, **declarative, responsive apps** from a rich data model and workflow engine

Connect to **250+ data sources** for events and actions, from Microsoft and other vendors

Leverage native mobile capabilities like **camera, GPS, push notifications, add custom** components and more to build consumer grade applications

Build with intelligence including **Natural Language Processing**, image detection, and other built-in cognitive services powered by Azure

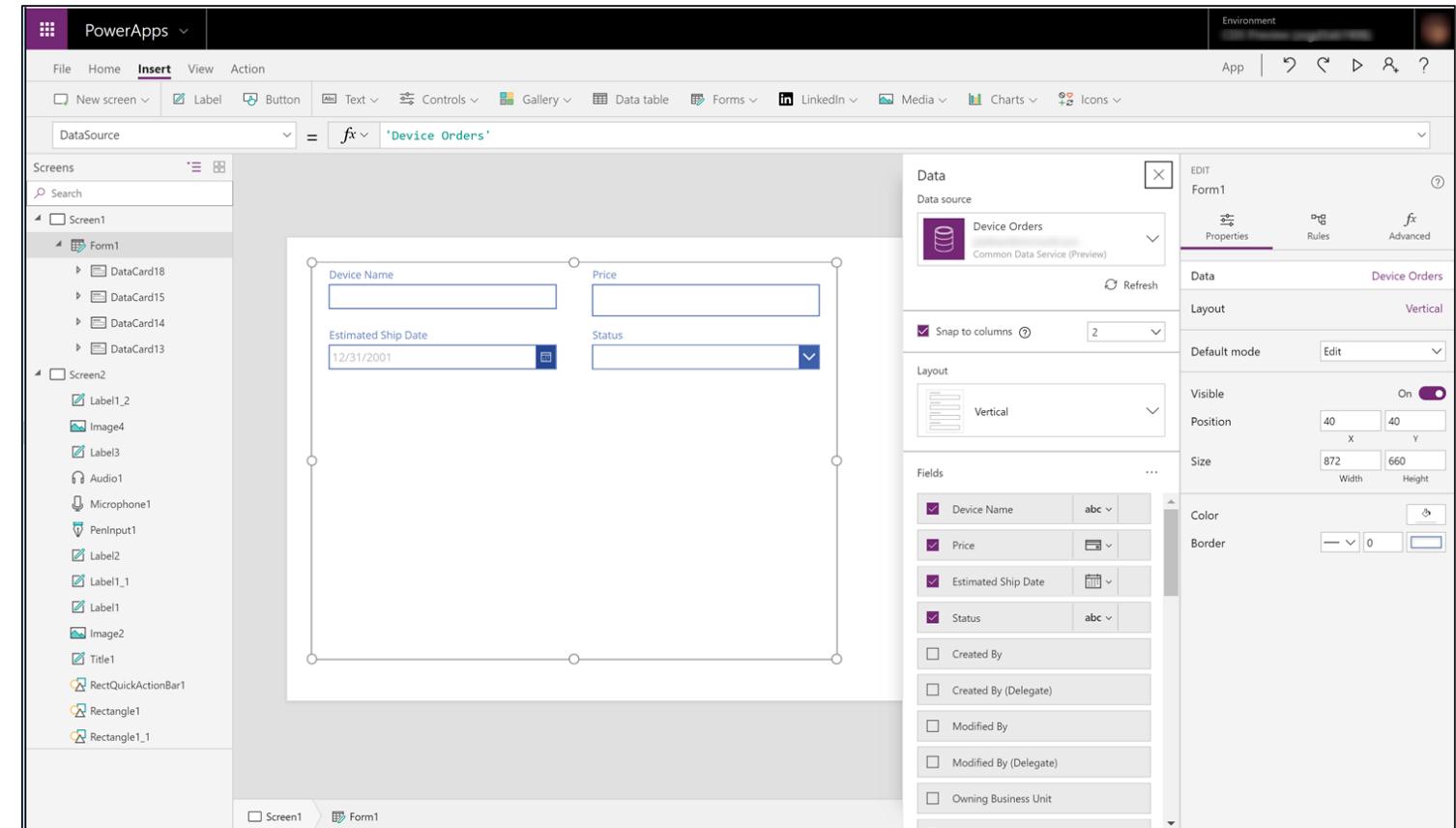
Starting with Power Apps

Canvas apps
Start with user experience
WYSIWYG designer
Task-based & role-based apps
Mash-up data from 250+ sources

Model-driven apps
Built on the Common Data Service for Apps
Start with a data model, relationships, and business processes
Build End-to-End business applications

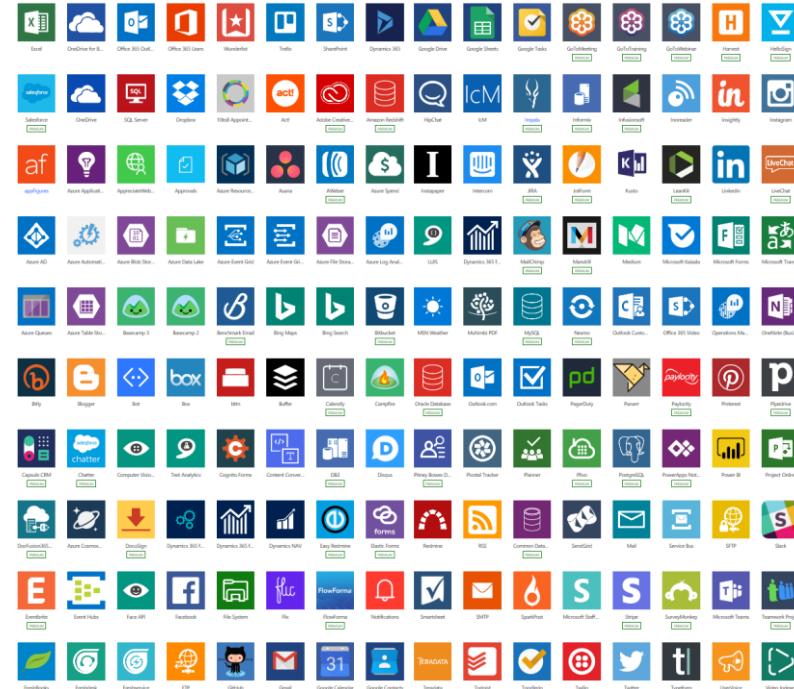
Easy Authoring

- Truly WYSIWYG – full control over user experience, use it as you build it
- Create app logic with familiar Excel-like expressions
- Mash up data from multiple sources right at the app level



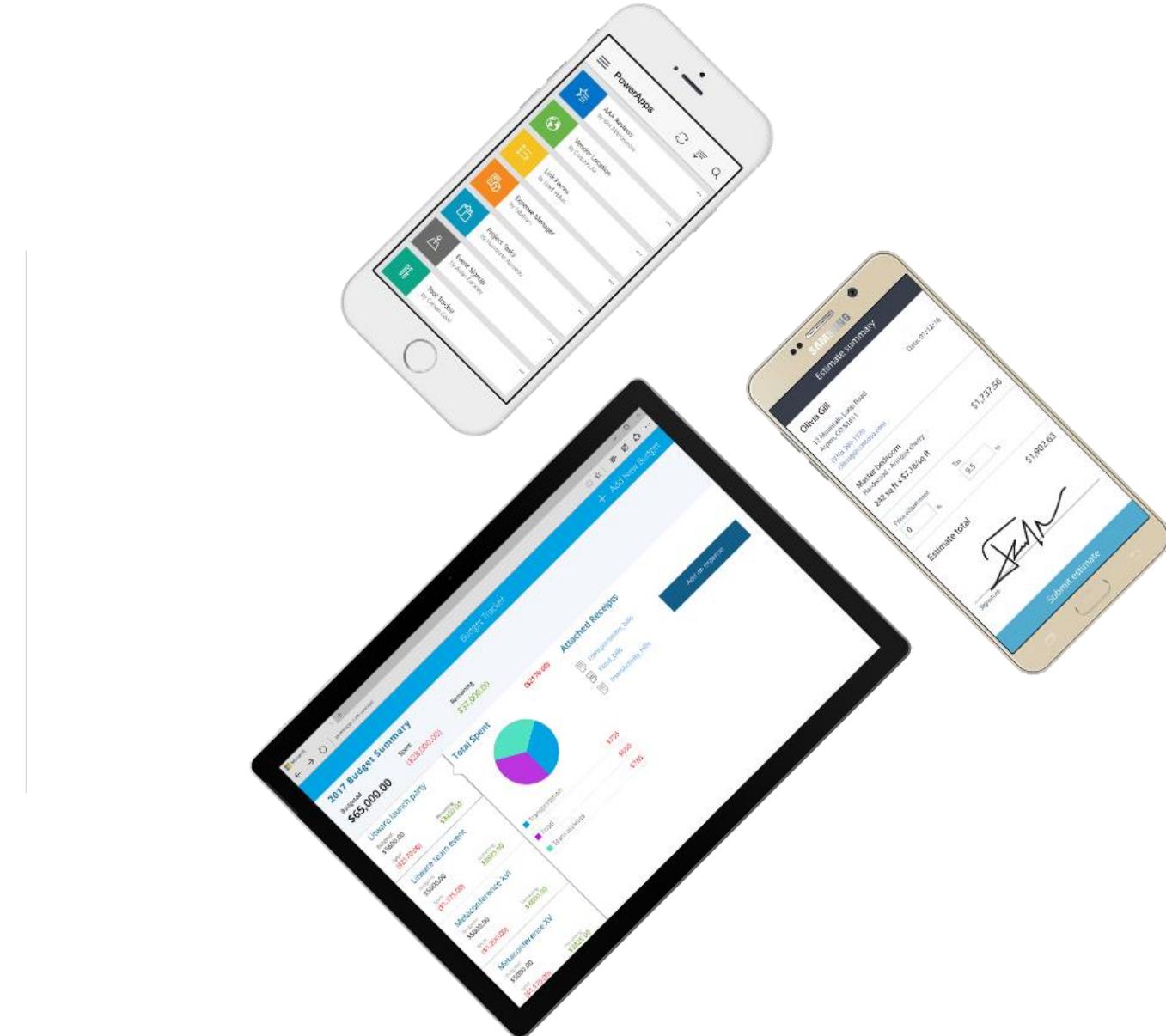
Cloud and on-premises connectivity

- Built-in connectivity to 250+ cloud services, files, databases, web APIs, etc.
- Seamless hybrid connectivity to on-premises systems via the On-Premises Data Gateway
- Build custom connectors for everyone to leverage



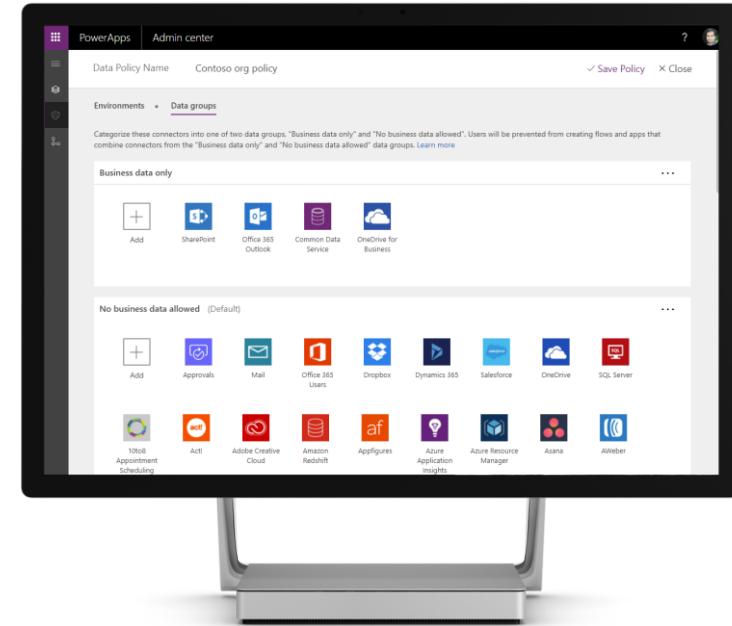
Cross-platform

- Publish instantly to iOS, Android, Windows, and the web
- Sharing apps is like sharing documents
- Manage across environments



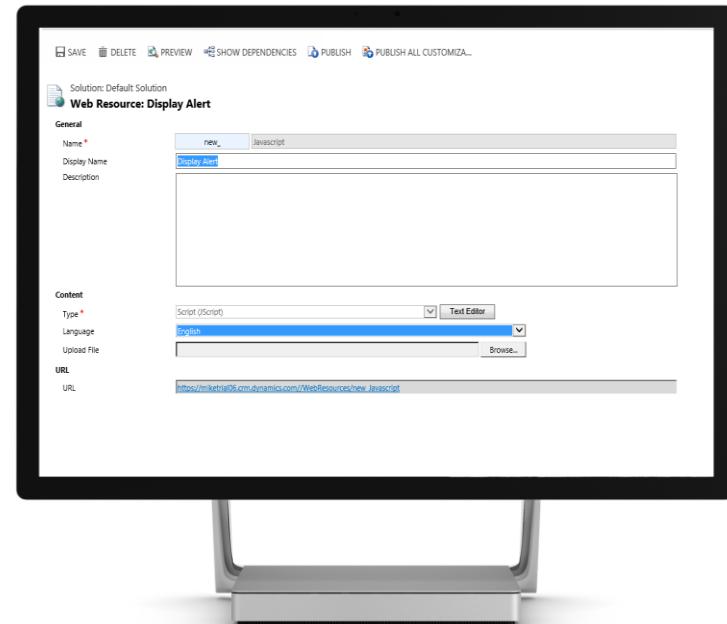
Enterprise-grade management and control

- All identity is managed through Azure Active Directory, enabling rich policies and multi-factor authentication
- Admin Center providing full audit logs, usage analytics, data loss prevention, security and data management
- Centrally manage all your apps, first and third party, deployed across your organization



Amplify traditional developer productivity

- Extend applications using custom code
- Build custom connectors that everyone can use
- Write advanced client or server-side logic leveraging Azure Machine Learning, Cognitive Services, Bing APIs, custom code, or any service of your choice



Better together!

Embed canvas apps

- In websites
- In SharePoint
- In Power BI
- In model-driven

Home EDIT LINKS

Settings > Form Settings

Form Options

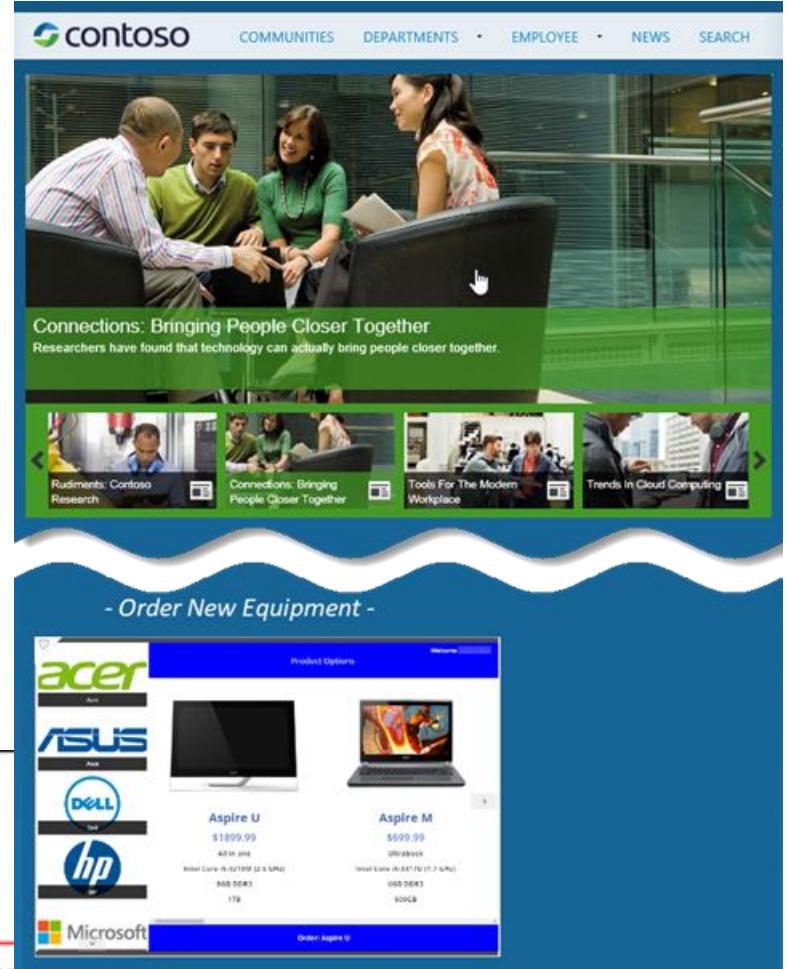
Use Microsoft PowerApps to customize the forms for this list. You can modify the form layout, add pictures and formatted text, add custom data validation, create additional views, and add rules.

Microsoft InfoPath is also provided as an option for backwards compatibility. Using PowerApps is recommended over using InfoPath.

Use the default SharePoint form

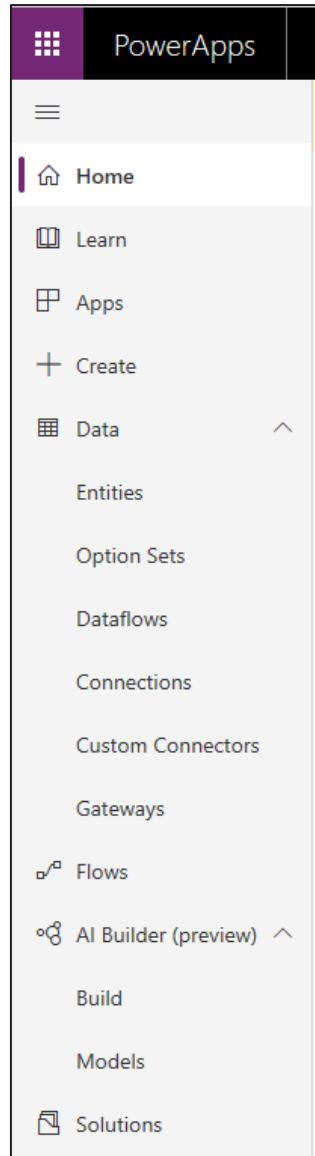
Use a custom form created in PowerApps [Modify form in PowerApps](#)

Use a custom form created in InfoPath [Customize in InfoPath](#)



Key concepts

Power Apps Maker Portal [<https://make.powerapps.com/>]

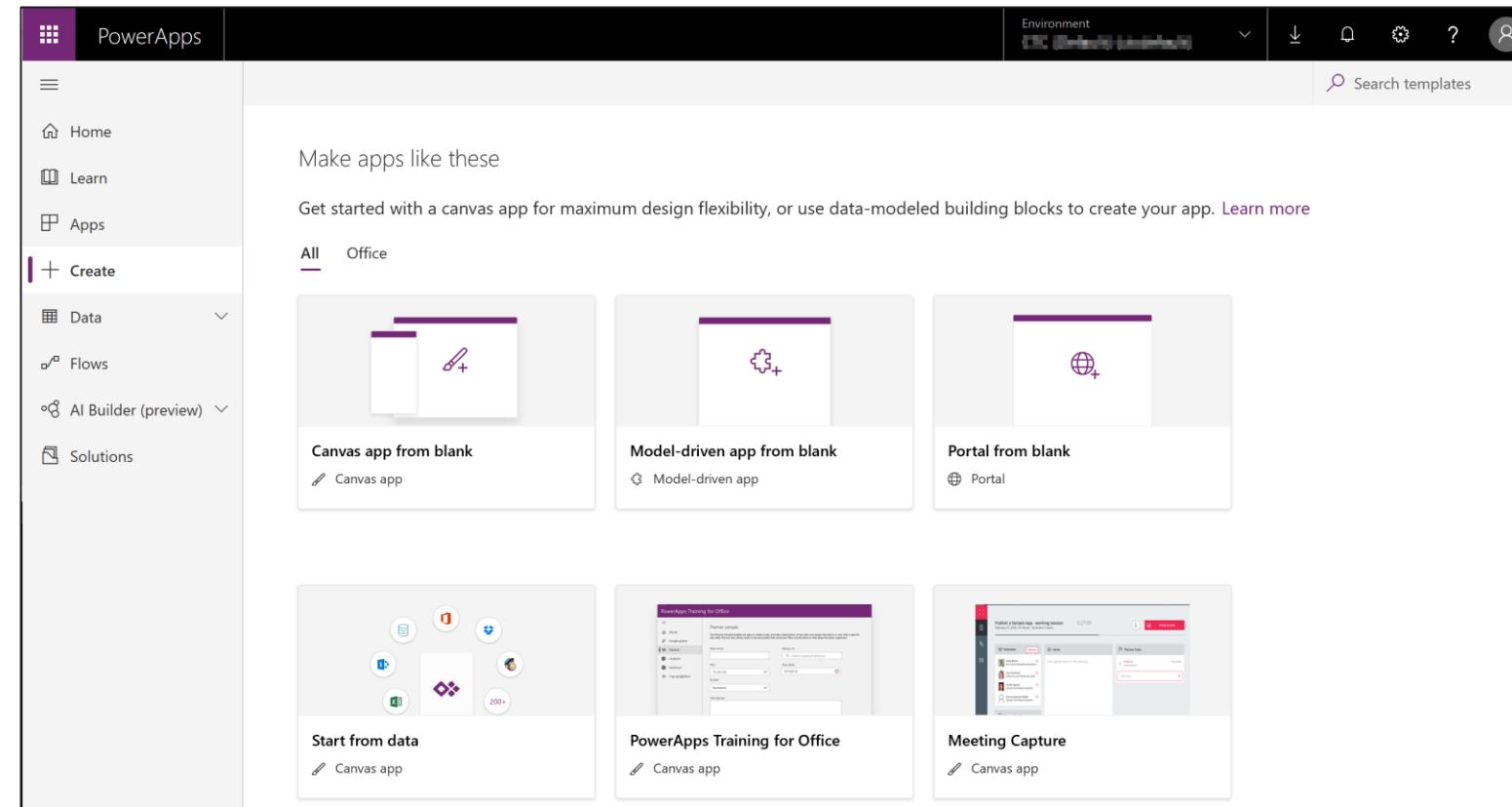


Home page for Makers

- Learn
 - Guided learning, documentation, community, what's new
- Manage Apps
 - View apps, open apps, create new apps, run sample apps, create apps from sample apps
- Data
 - Manage entities, option sets, data integration, connections, custom connections & gateways
- Business Logic: Add flows to your apps
- AI Builder: Democratized artificial intelligence for all
- Solutions: They hold and transport customizations and apps

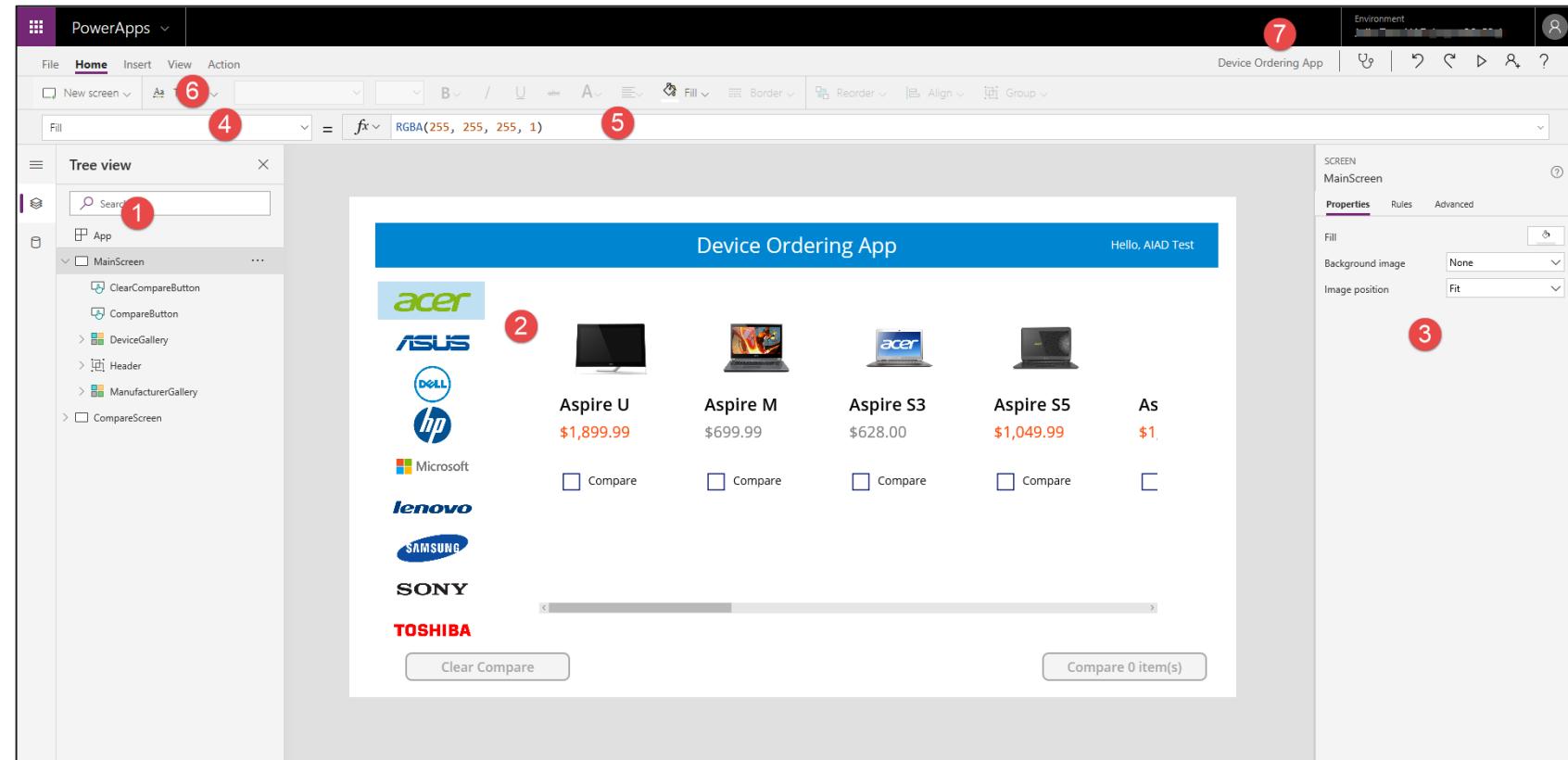
Power Apps Studio for the Web

- Canvas apps authoring experience
- Start with your data
- Start with a blank canvas
- Start with a template



Explore the app designer experience

1. Left navigation bar
2. Middle pane
3. Right-hand pane
4. Property
5. Formula bar
6. Ribbon
7. Additional items



Power Apps Mobile (Player)

Power Apps Mobile for Windows, iOS, and Android

- Available from respective app-stores as a free app
- Sign-in using your work account (Office 365 / Dynamics 365 / Azure AD credentials)
- Access all your apps or apps shared with you across environments



Google Play: <https://aka.ms/powerappsandroid>

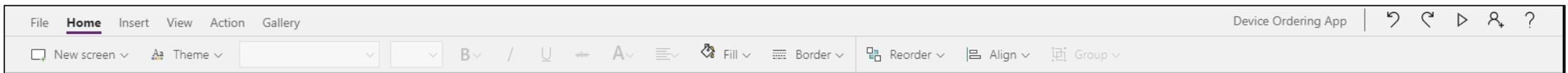
Apple App Store: <https://aka.ms/powerappsiOS>

Microsoft Store: <https://aka.ms/powerappswin>

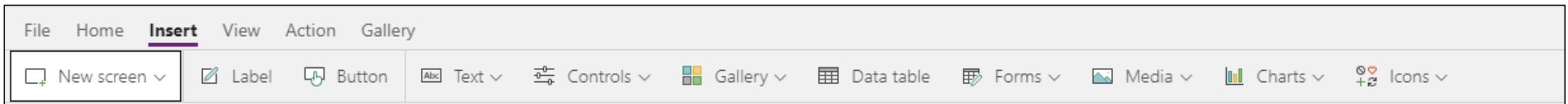


Power Apps Studio

Common Properties



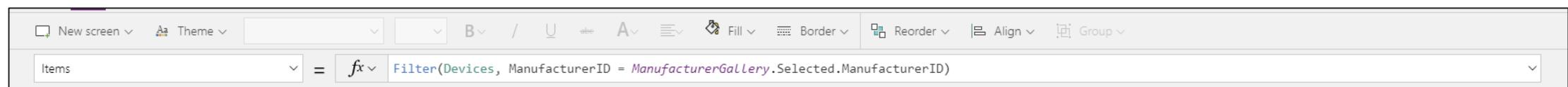
UI: Controls



View: Data



UI-Data Binding: Properties & Formula bar



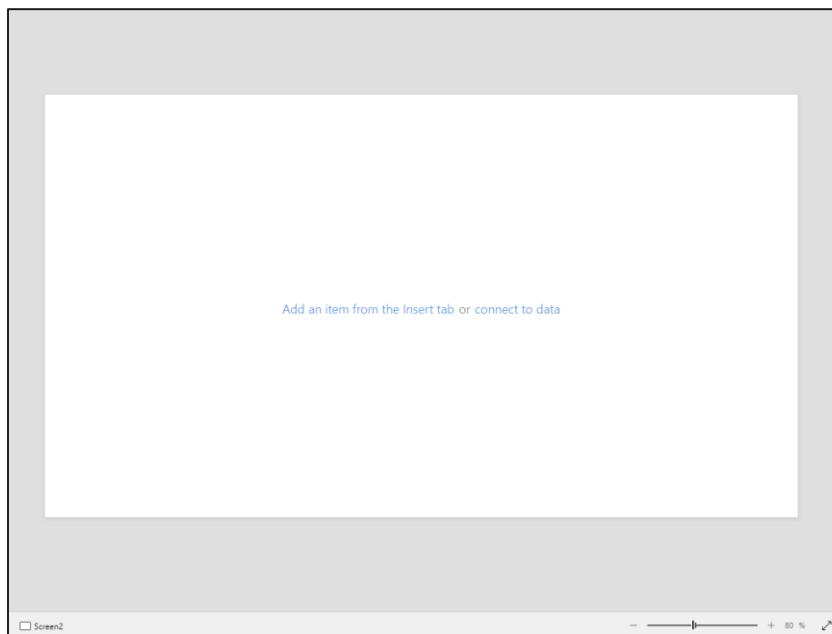
Screens & Controls View

Screens

Search

- MainScreen
 - Button2_1
 - Button2
 - ManufacturerGallery
 - Image3
 - DeviceGallery
 - Checkbox1
 - Subtitle1
 - Title1
 - Image1
 - Label3
 - HeaderLabel
- CompareScreen
 - icon1
 - CompareListGallery
 - Title1_6
 - Title1_5
 - Title1_4
 - Title1_3
 - Title1_2
 - Subtitle1_1
 - Title1_1
 - Image1_1
 - Label3_1
 - HeaderLabel_1

Canvas



Properties Panel

New screen

Items =

GALLERY
DeviceGallery

Data Devices

Layout Title and subtitle

Visible On

Position 204 80
X Y

Size 1162 621
Width Height

Color

Border

Wrap count 1

Template size 175

Template padding 0

Show scrollbar On

Snap Off

Show navigation Off

Navigation step 1

Transition None

Display mode Edit

SCREEN
MainScreen

Action

OnVisible

```
Collect(CompareList, {Pressed: Button2_1.Pressed})
```

OnHidden

OnStart

Data

BackgroundImage

Design

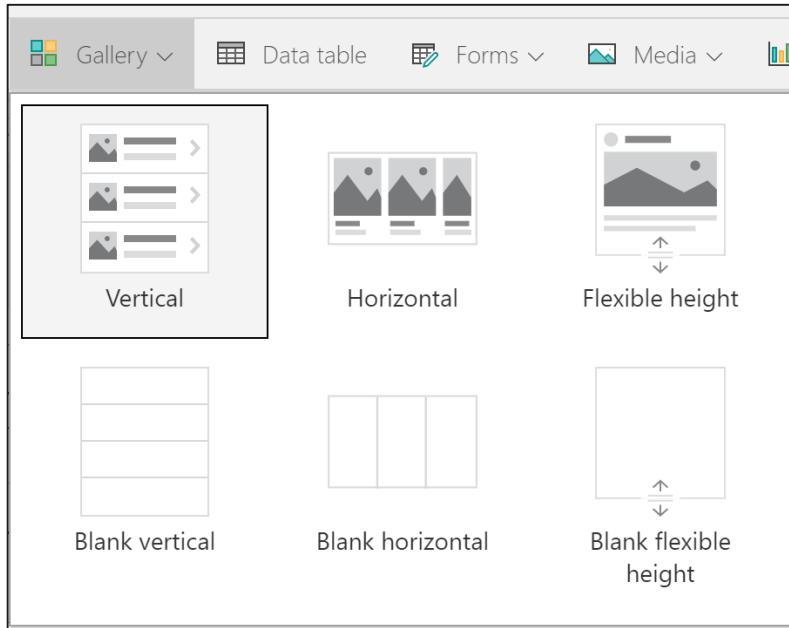
Fill

RGBA(255, 255, 255, 1)

ImagePosition

ImagePosition.Fit

Galleries



The screenshot shows the Power BI visual editor interface. In the center, a gallery control is displayed with four items. The first item is highlighted with a yellow background and has a blue arrow pointing to its edit icon. The items are:

- Item 1:** Placeholder text 'Lorem ipsum 1' and sample text 'Lorem ipsum dolor sit amet,'.
- Item 2:** Placeholder text 'Lorem ipsum 2' and sample text 'Suspendisse enim metus, tincidunt'.
- Item 3:** Placeholder text 'Lorem ipsum 3' and sample text 'Ut pharetra a dolor ac vehicula.'.
- Item 4:** Placeholder text 'Lorem ipsum 4' and sample text 'Vestibulum dui felis, fringilla nec mi'.

On the right side, the 'Data' pane is open, showing the data source and layout settings:

- Data source:** 'CustomGallerySample' (Sample data).
- Layout:** 'Image, title, and subtitle'.
- Image2:** 'SampleImage'.
- Subtitle2:** 'SampleText'.
- Title2:** 'SampleHeading'.

Empower your employees, like the Red Cross

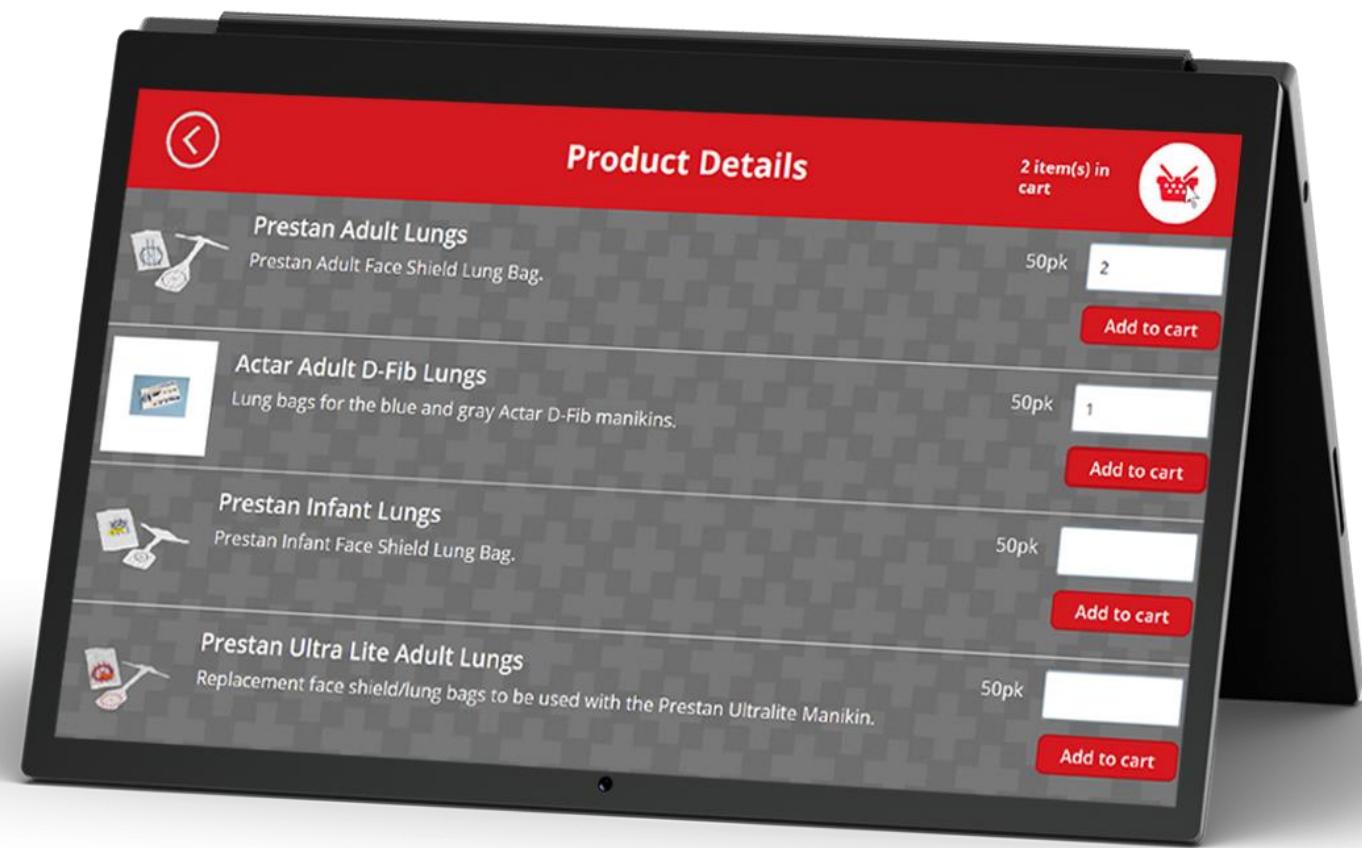
Streamlining logistics to empower employees and volunteers
to deliver relief timely and effectively

"Power Apps has allowed us to solve complex problems faster. We can utilize our volunteer network to re-engineer business processes in a way that was simply not possible earlier."

– Nick Gill, delivery logistics & inventory manager



American
Red Cross

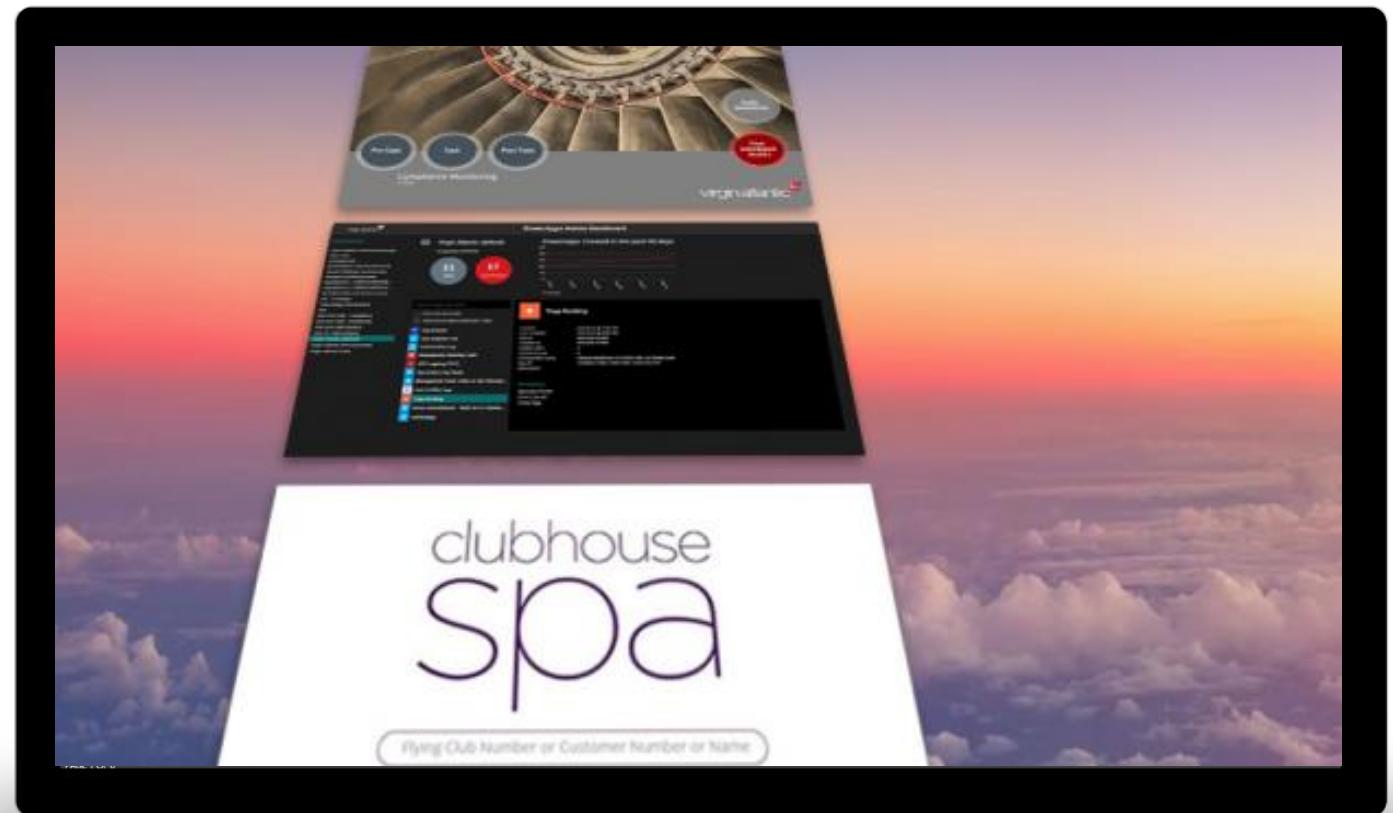


Engage your customers, like Virgin Atlantic

Virgin Atlantic easily creates custom-built mobile applications with Microsoft Power Apps

"The admin experience tied it all together – I was able to demonstrate governance for Power Apps, get buy-in from our IT operations management team, discover other Power Apps developers in the organization, and start a community."

– Manuela Pichler, development manager

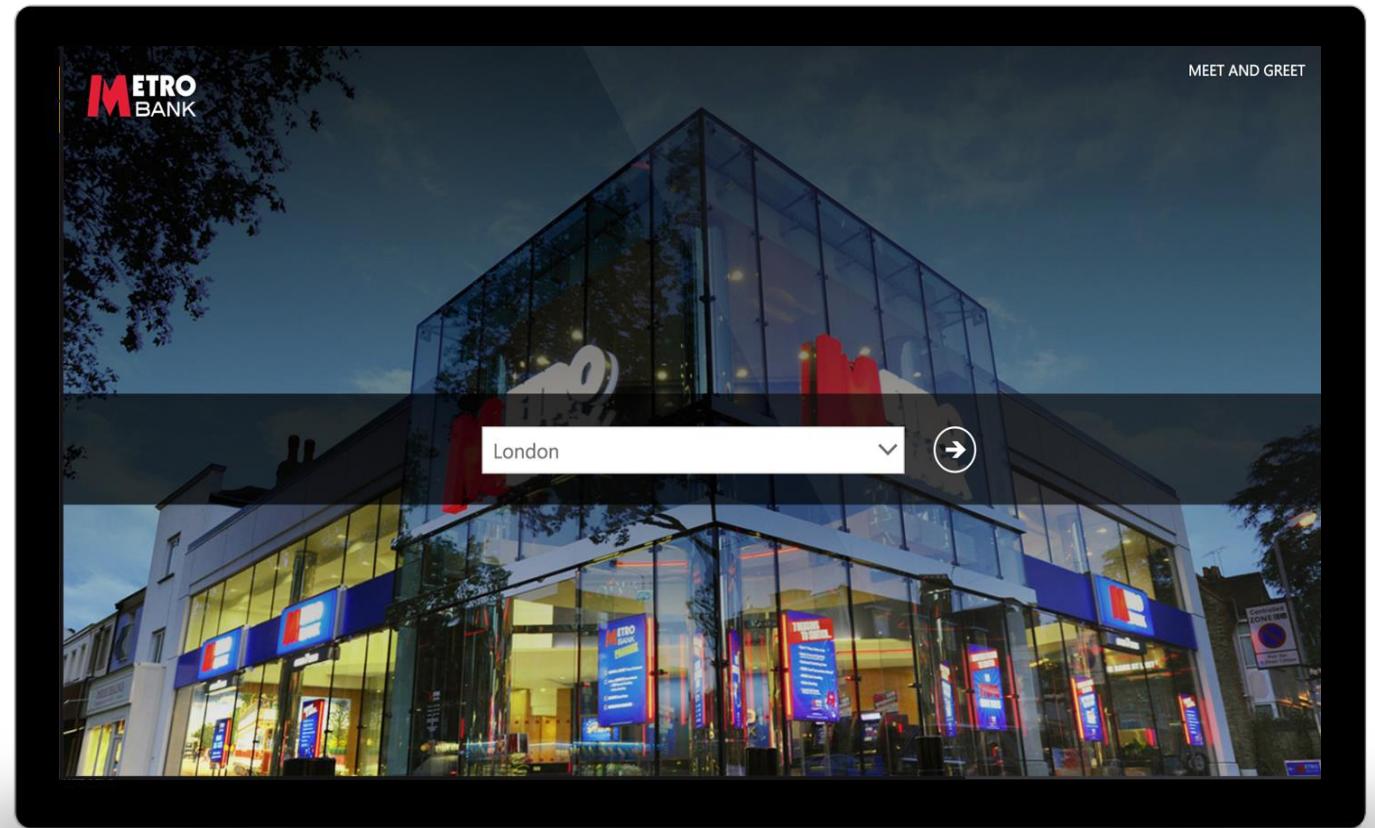


Transform your services, like Metro Bank

Transforming their customer journey through quality in store experiences that differentiate themselves in financial services

"Power Apps is a great blank canvas, with easy-to-use templates, and seamless connectivity to all the Microsoft cloud services that we use. It took only two months from the time we started development until we launched the app in our first stores."

– Bruce Rioch, chief data officer



Optimize your operations, like Northwell Health

Healthcare provider improves operational outcomes with no-code apps

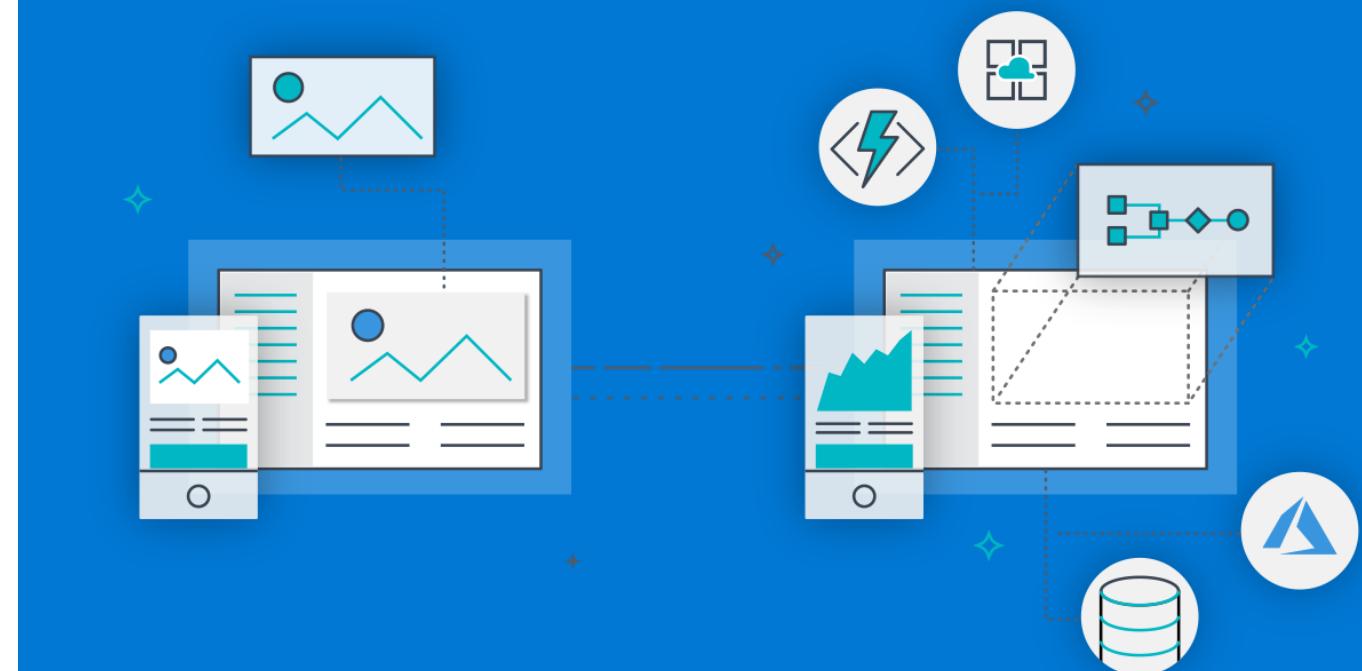
"We can focus on employee needs and not worry about things like data models or scalability—Power Apps takes care of that for us."

— Vishwaneth Anantraman,
chief innovation architect





Hands-on-Lab introduction



Business scenario

- Imagine an organization where every three years employees go through a hardware refresh cycle.
- They would like to streamline the device order, procurement and approval process.
- The app needs to run in a web browser and on mobile devices.

The screenshot displays a hybrid application interface for device ordering. On the left, a modal window titled "DEVICE ORDER" shows a "Device Requested (15 D)" card with details: "Requested Date" (04/09/2018), "Approval Status" (---), and "Price" (\$899.99). Below this is a table with columns "Primary Name" (Laptop for Sameer Bhangar), "Owner" (Sameer Bhangar), and "Approver" (manager@). A "Next Stage >" button is at the bottom. On the right, the main "Device Ordering App" interface shows a grid of four laptop models from various brands: Acer, ASUS, Dell, and HP. Each model has a "Compare" checkbox. The Acer row includes a "TOSHIBA" button. The right side of the screen features a flowchart editor with steps like "Update flow" and "Test Flow".

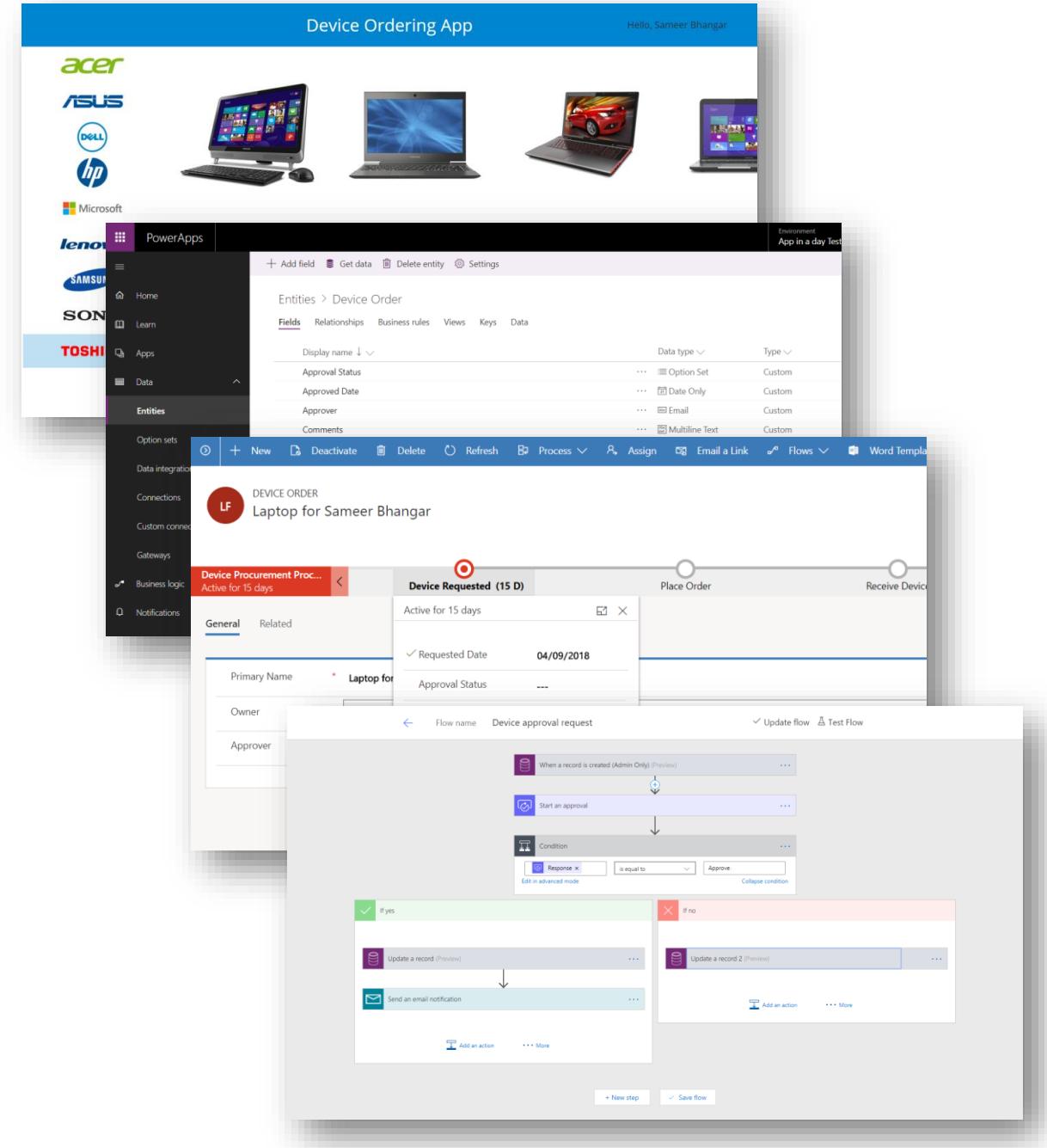
Lab objectives

Build a **Power Apps Canvas App** for employee facing device ordering experience

Use the **Common Data Service (CDS)** to store the device orders in the cloud

Build a **Power Apps Model-driven App** to complete the procurement process

Use **Power Automate** to build an approval workflow for device approval



Lab content

Download package – <http://aka.ms/appinaday>

Unzip the package on your local machine

Follow instructions: “**00-AppInaDay Lab Overview.pdf**”

Contains 4 modules with a lab doc for each:

- 01-Power Apps Canvas App
- 02-Common Data Service for Apps
- 03-Power Apps Model-driven App
- 04-Power Automate

Completed Modules:

The **\Completed folder** contains solution packages that you can import

e.g. To work on Module 2 without completing Module 1 -> see \Completed\Module1

Lab docs:

Name
Completed
00-AppInADay Lab Overview
01-PowerApps Canvas App Lab Manual
02-Common Data Service for Apps Lab Manual
03-PowerApps Model-driven App Lab Manual
04-Microsoft Flow Lab Manual

Completed modules:

Name
Module 1
Module 2
Module 3

Pre-requisites

Valid Power Apps Plan 2 license:

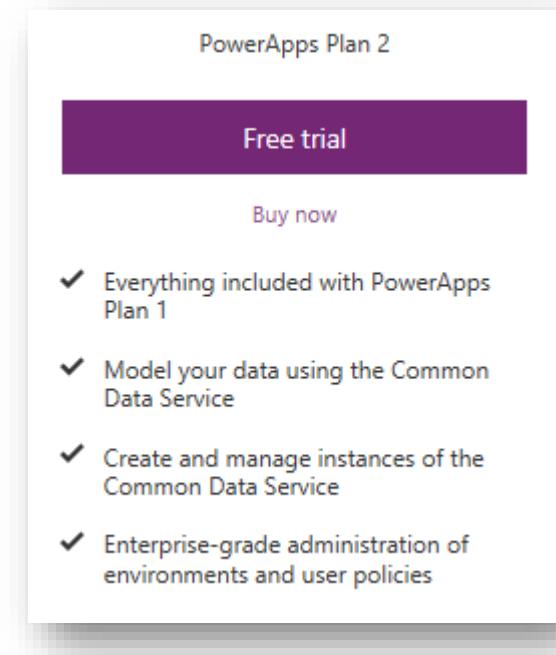
- Common Data Service usage requires a Power Apps Plan 2 license
- Visit <https://powerapps.microsoft.com/pricing/> and click Free Trial
- If you are unable to acquire a trial license:
 - Ask the instructor for a trial user account that you may use for this session OR
 - Create your own Office 365 trial tenant – <http://aka.ms/Office365ETrial>

Power Apps authoring environment:

- Launch <https://make.powerapps.com> using any modern browser

Power Apps mobile apps (Optional):

- Power Apps – iOS : <https://aka.ms/PowerAppsiOS>
- Power Apps – Android : <https://aka.ms/PowerAppsAndroid>



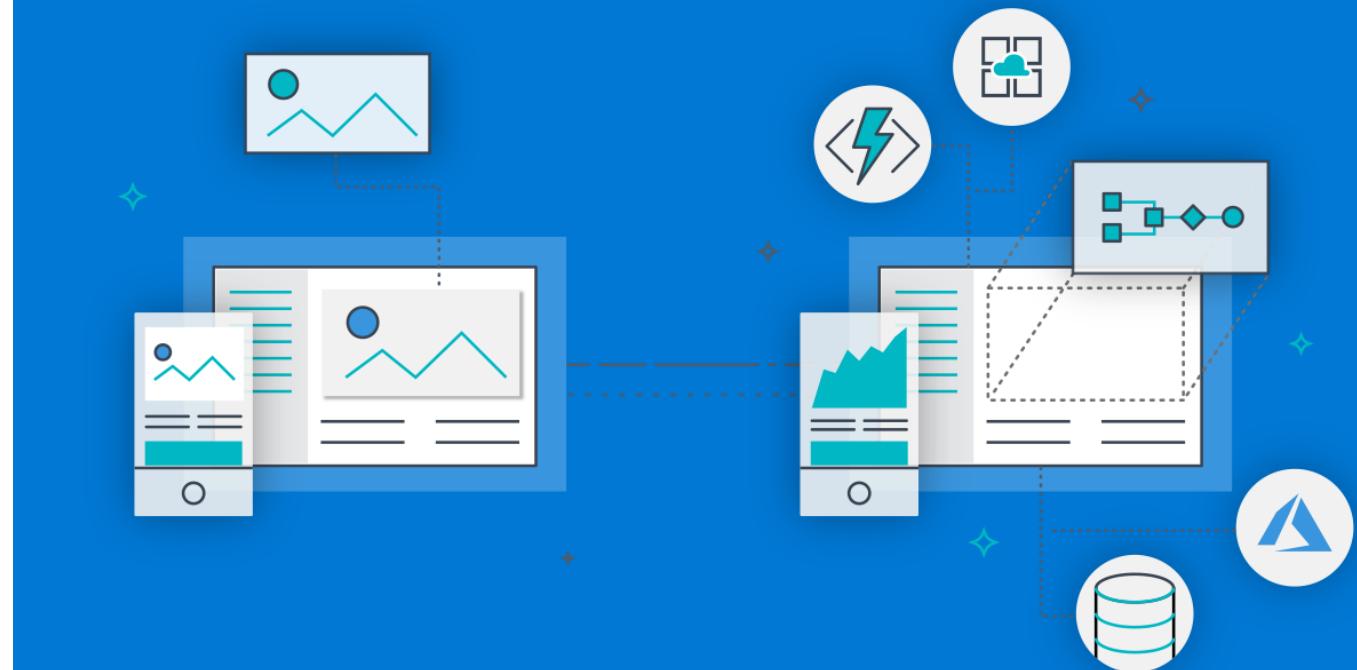
Provision an environment and CDS database

This lab requires a new Power Apps environment and CDS database that was provisioned for this class

- Go to the Power Apps Admin center – <http://admin.powerapps.com>
- Select +New environment, fill out the form and select Create
- Select the Create database option
- Fill out the form and select Create database
- You will be taken to a screen that shows the newly created environment
- **IMPORTANT:** At this stage the database has not yet been provisioned
- Select the environment you just created
- Wait for the “Provisioning database...” message to go away
- You may need to refresh the screen every couple of minutes
- Once the provisioning is complete, then proceed to create apps in the environment

Hands-on-lab

Module 1: Power Apps Canvas App



Lab objectives

- Signing in and creating a new Canvas App
- Connecting to data sources
- Filtering data
- Working with multiple screens and navigation
- Customizing the user experience – galleries and controls

Device Ordering App

Hello, Sameer Bhangar

The screenshot shows a user interface for a 'Device Ordering App'. At the top, there's a blue header bar with the app name and a user greeting ('Hello, Sameer Bhangar'). Below the header, there's a sidebar on the left containing logos for various brands: acer, ASUS, DELL, hp, Microsoft, lenovo, SAMSUNG, and SONY. The main content area displays a grid of devices. In the first row, there are four items: 'All-in-One LX835-D3380' (by Portege Z935-ST4N02) at \$1,399.99, 'Portege Z935-ST4N02' at \$979.99, 'Qosmio X870-ST3NX1' at \$1,899.99, and 'Satellite C87' at \$479.99. Each item has a 'Compare' button below it. In the second row, there's one item: 'TOSHIBA' with a 'Compare' button. At the bottom right of the main content area are two buttons: 'Clear' and 'Compare 6 item(s)'.

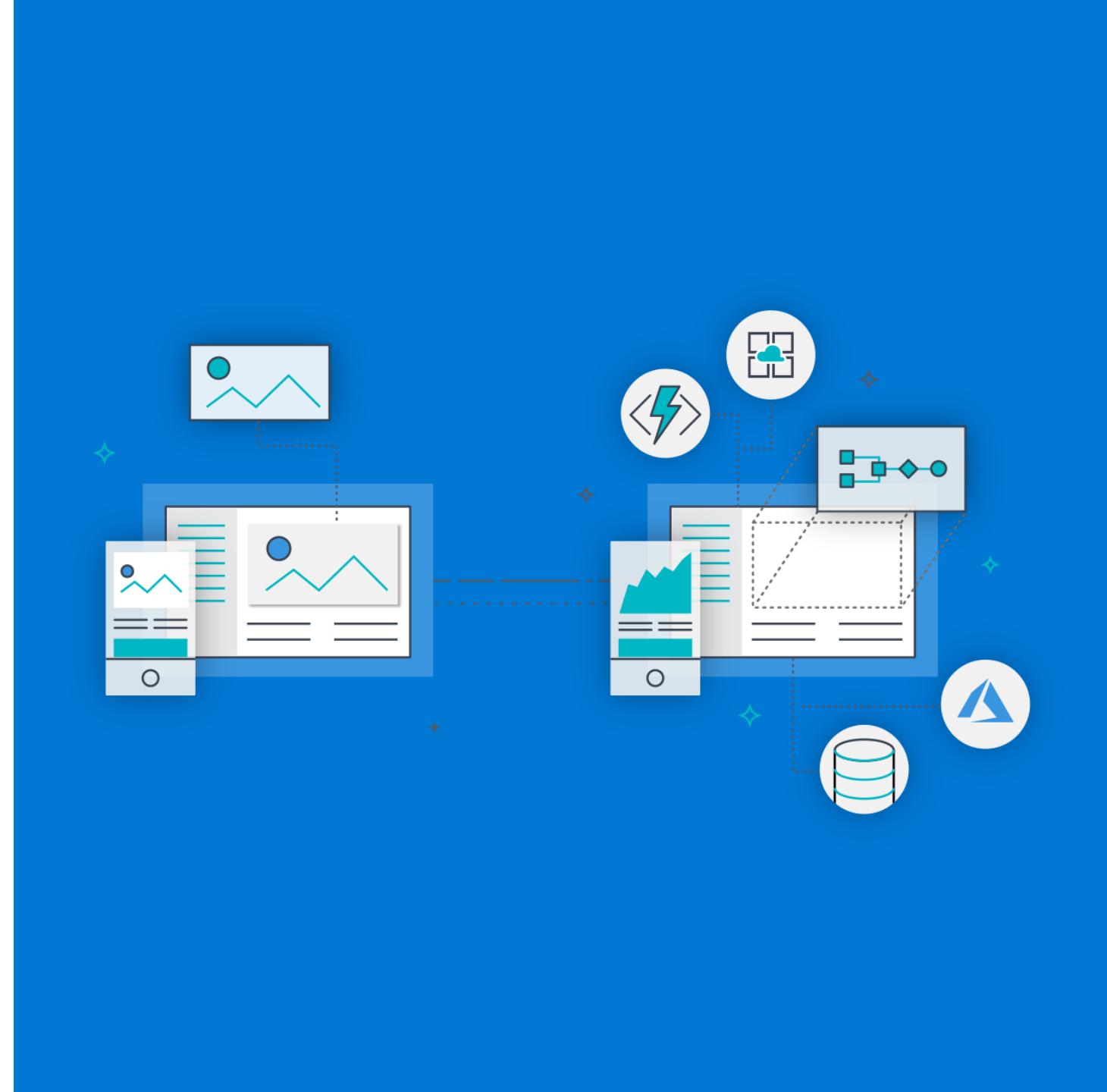
Device Ordering App

Hello, Sameer Bhangar

This screenshot shows a different view of the 'Device Ordering App'. It features a blue header bar with the app name and a user greeting ('Hello, Sameer Bhangar'). Below the header, there's a back arrow icon on the left and a search bar on the right. The main content area displays a grid of devices. In the first row, there are three items: 'Portege Z935-ST4N02' (laptop), 'Surface Pro' (laptop), and 'Series 7' (tablet). Each item has its price (\$979.99, \$999.00, and \$1,099.00 respectively) and some technical specifications listed below it. A horizontal scrollbar is visible at the bottom of the main content area.



Hands-on-Lab Demo





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