

Introduction to Power Apps – Session 4

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AGENDA SLIDE

What we will cover today



01

Intro to Power Apps
Recap



02

Building Apps via
PowerApps Template



03

Building Apps via
Power Apps from
scratch



04

Intro to Power Apps
Input, Galleries, Forms



05

Demos

House Keeping



6 pm IST - Start
of Session



Class Slides



Labs



Additional
Resources



Video
Resources



Q & A

Location of Slides

- <http://bit.ly/PowerAppsCourse>



Course Roadmap

Introduction to Power Apps

Introduction

Introduction on Power Apps.
Why, What & How

Connections

Using variables, collection,
data types, delegation
connections and different
data sources

Building Apps

Using Templates or build
from scratch. With
OneDrive, & SharePoint

Basics on Formulas, Search,
Filter, Patch function.

Formulas

Patch function, Delegation,
With Microsoft Teams,
Power Automate &
SharePoint Online,

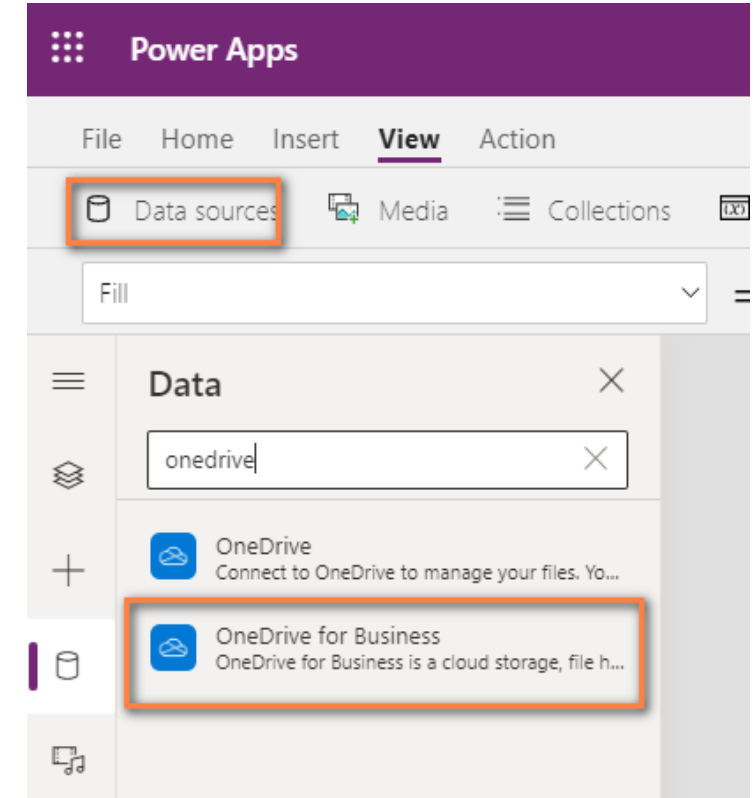
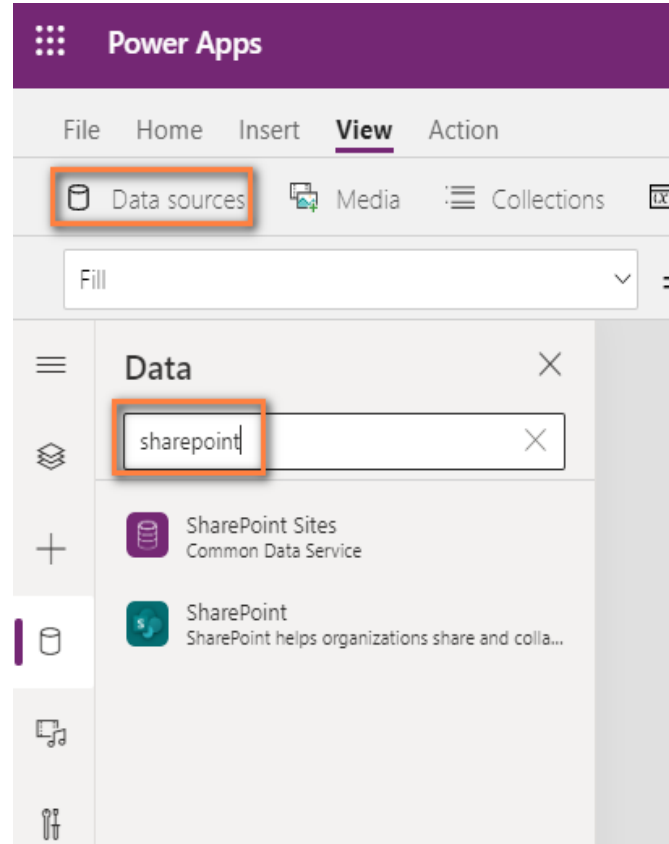
Integration

Building end to end solutions.
AI Builder & Mixed Reality.

Real world

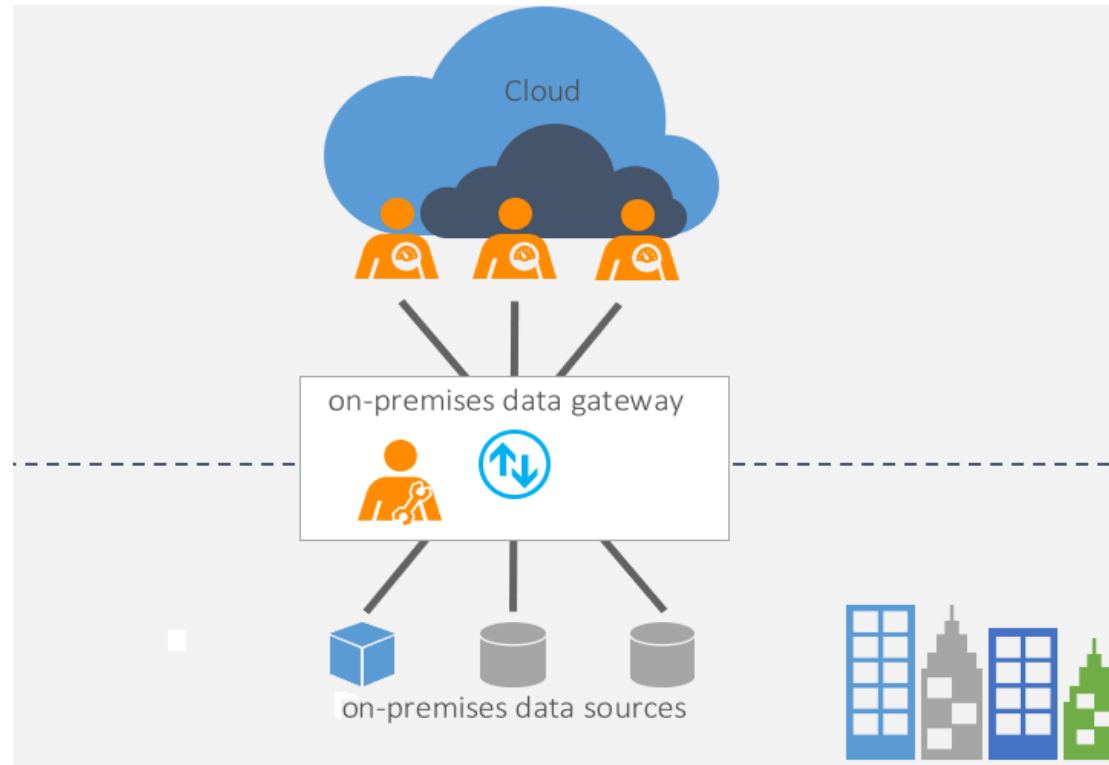
Data Sources

- In Power Apps, most canvas apps use external information stored in cloud services **called Data Sources**.
- A common example is a table in an **Excel file stored in OneDrive for Business** or SharePoint.



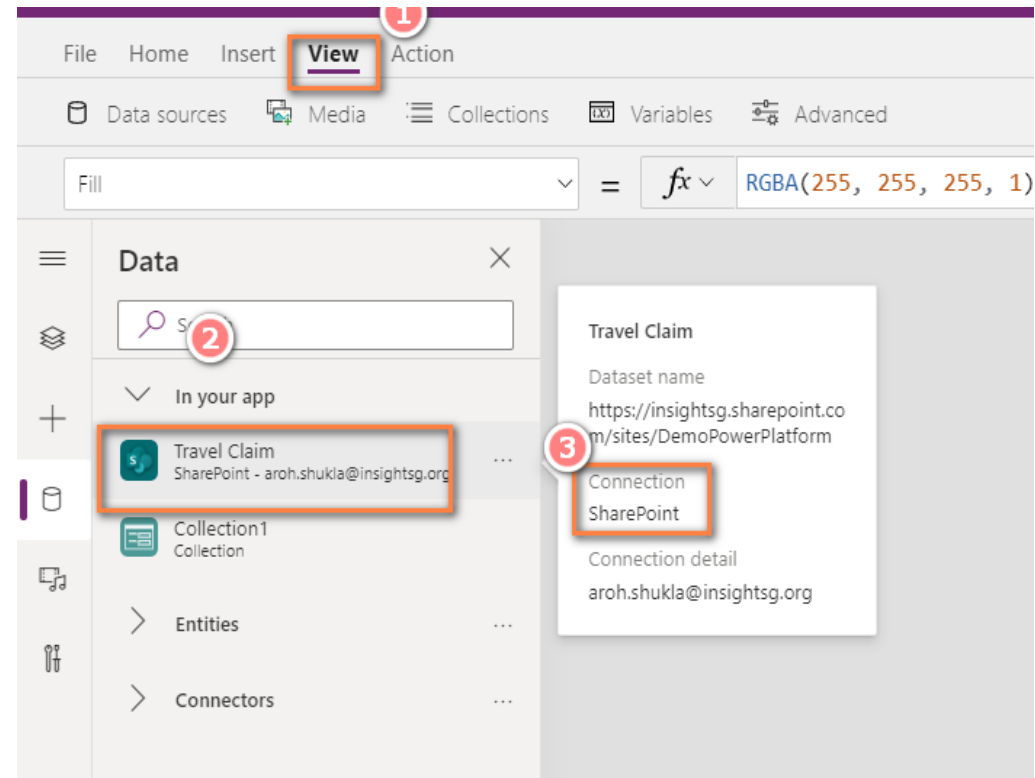
Data Gateway

- By **using a gateway**, organizations can keep databases and other data sources on their on-premises networks, yet securely use that **on-premises data in cloud services**.



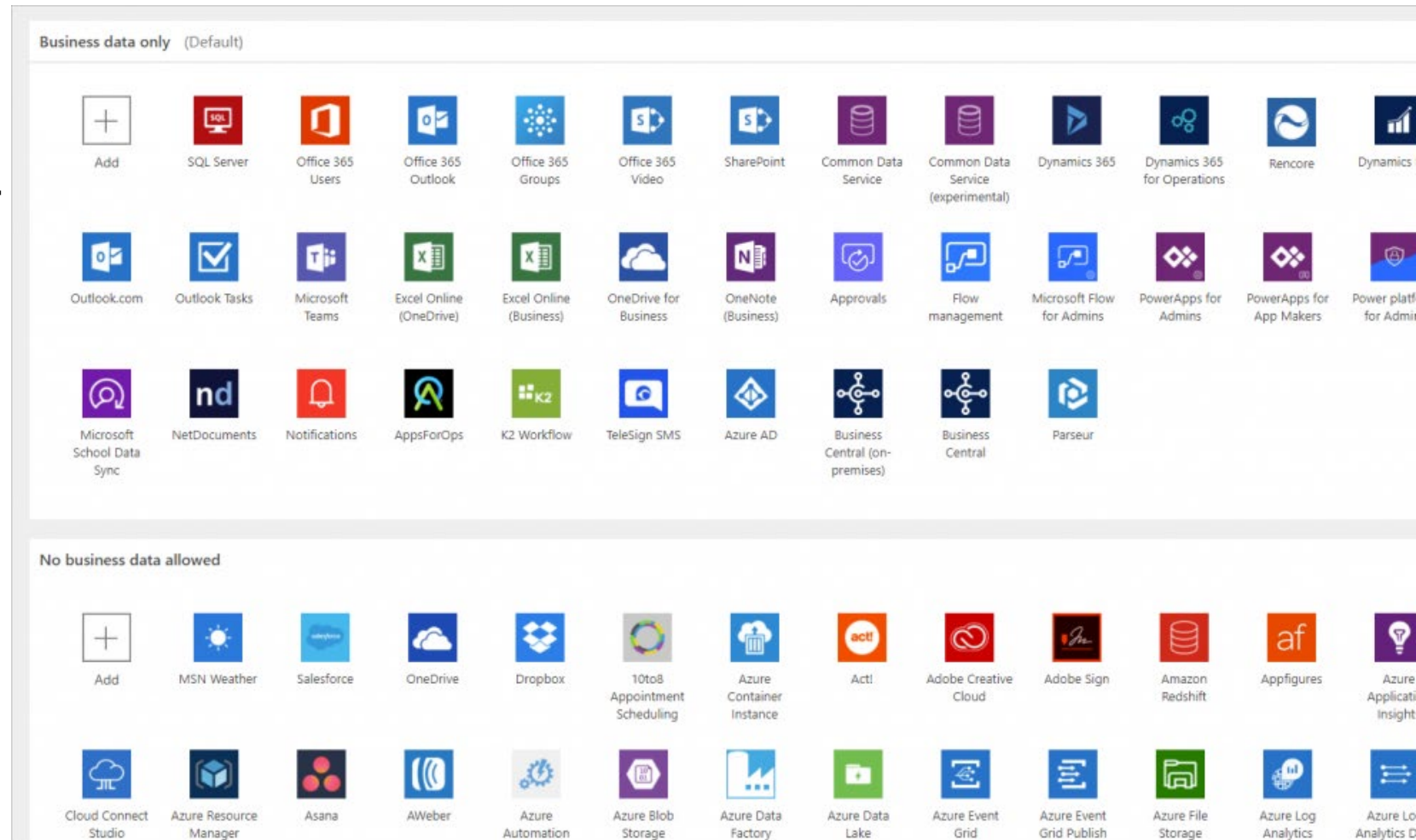
Connections

- Data is stored in **a data source**, and you bring that data into your app by creating a connection. The connection uses a **specific connector to talk to the data source**.
- Power Apps has **connectors for many popular services** and on-premises data sources, including **SharePoint, SQL Server, Office 365, Salesforce, and Twitter**.



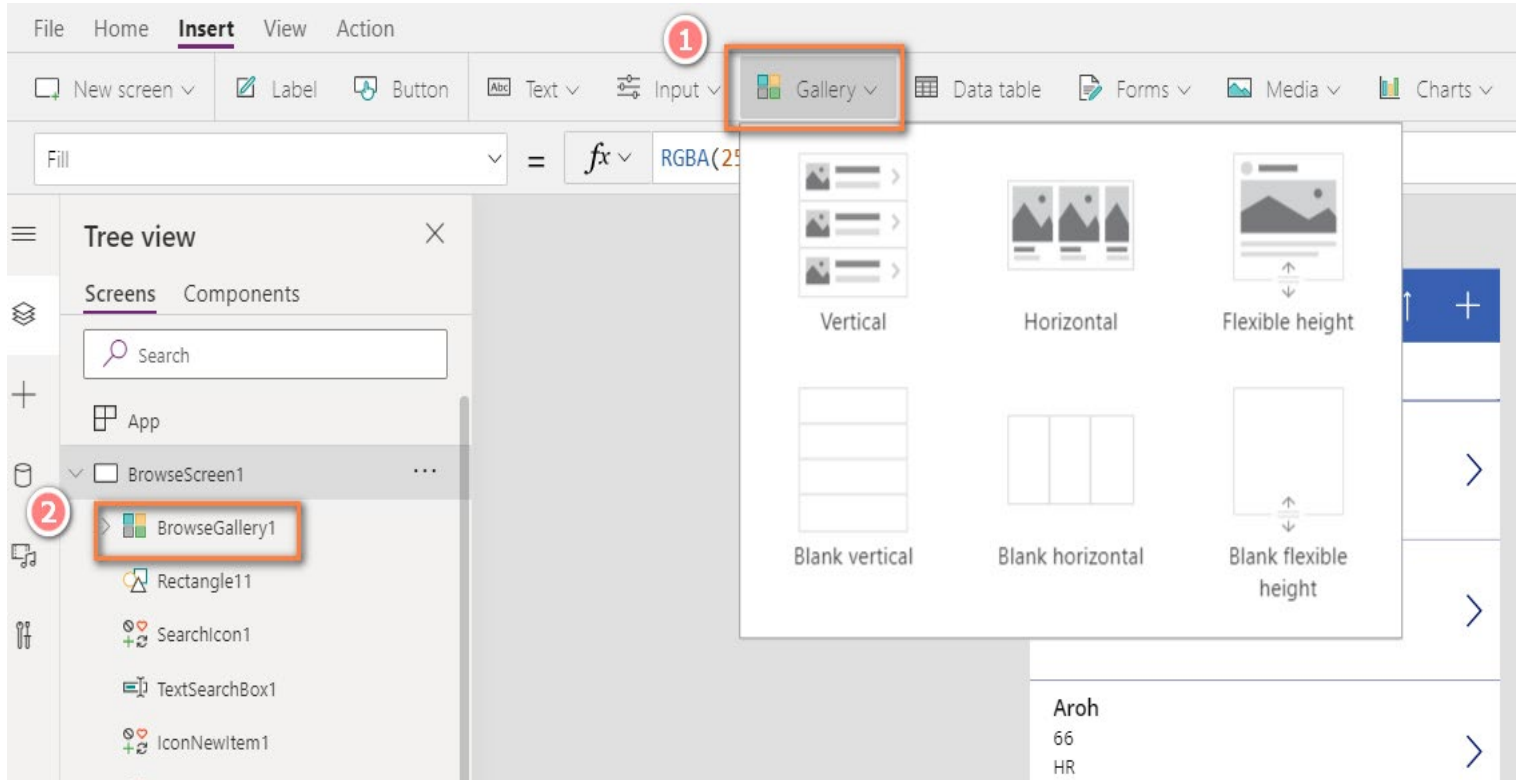
Connectors

- Power Apps has more **than 300+** connectors. Power Apps has connectors for many popular services and on-premises data sources, **including SharePoint, SQL Server, Office 365, Salesforce, and Twitter.**
- Power Apps can connect to 2 types of connector**
- Standard Connector
- Premium Connector



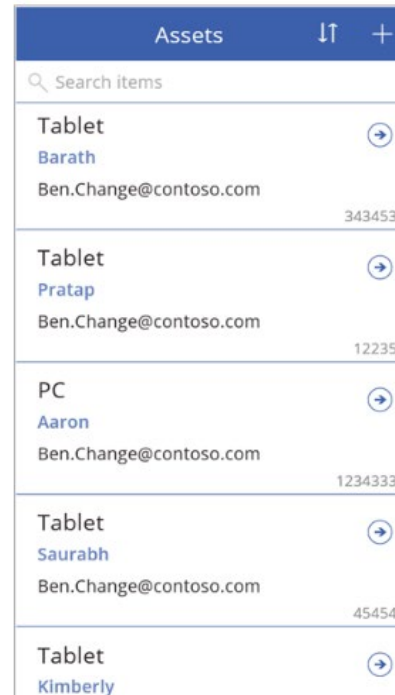
Galleries

- A **Gallery** control can show **multiple records** from a data source, and each record can contain multiple types of data.
- For example, use a Gallery control to show multiple contacts with each item showing contact information that includes a name, an address, and a phone number for each contact.



Forms

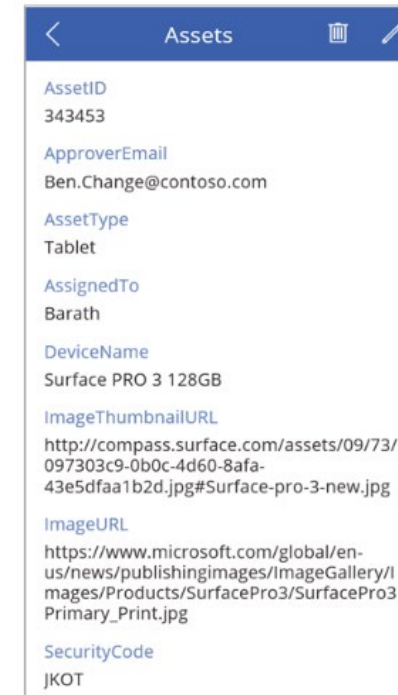
- Add three **types of controls** to a canvas app so that the user can **browse** for a record, **display** details about that record, and **edit or create** a record:
-



The screenshot shows a mobile app interface titled 'Assets'. It features a search bar at the top with the placeholder text 'Search items'. Below the search bar is a list of five asset records, each displayed in a card format. Each card contains the asset type (e.g., 'Tablet', 'PC'), the assigned person's name (e.g., 'Barath', 'Pratap', 'Aaron', 'Saurabh', 'Kimberly'), their email address ('Ben.Change@contoso.com'), and a unique ID number (e.g., '343453', '12235', '1234333', '45454'). A right arrow icon is visible on the right side of each card.

Asset Type	Assigned To	Email	ID
Tablet	Barath	Ben.Change@contoso.com	343453
Tablet	Pratap	Ben.Change@contoso.com	12235
PC	Aaron	Ben.Change@contoso.com	1234333
Tablet	Saurabh	Ben.Change@contoso.com	45454
Tablet	Kimberly		

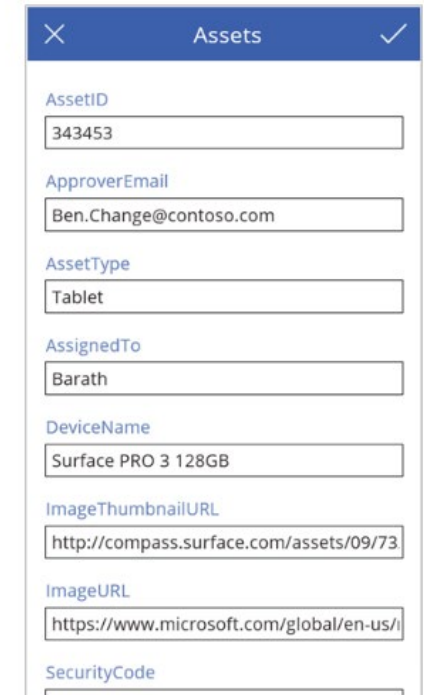
Browse screen
Primary control: Gallery



The screenshot shows a mobile app interface titled 'Assets' with a back arrow and edit/delete icons. It displays a form for viewing the details of a specific asset. The fields include: 'AssetID' (343453), 'ApproverEmail' (Ben.Change@contoso.com), 'AssetType' (Tablet), 'AssignedTo' (Barath), 'DeviceName' (Surface PRO 3 128GB), 'ImageThumbnailURL' (http://compass.surface.com/assets/09/73/097303c9-0b0c-4d60-8afa-43e5dfaa1b2d.jpg#Surface-pro-3-new.jpg), 'ImageURL' (https://www.microsoft.com/global/en-us/news/publishingimages/ImageGallery/Images/Products/SurfacePro3/SurfacePro3Primary_Print.jpg), and 'SecurityCode' (JKOT).

AssetID	343453
ApproverEmail	Ben.Change@contoso.com
AssetType	Tablet
AssignedTo	Barath
DeviceName	Surface PRO 3 128GB
ImageThumbnailURL	http://compass.surface.com/assets/09/73/097303c9-0b0c-4d60-8afa-43e5dfaa1b2d.jpg#Surface-pro-3-new.jpg
ImageURL	https://www.microsoft.com/global/en-us/news/publishingimages/ImageGallery/Images/Products/SurfacePro3/SurfacePro3Primary_Print.jpg
SecurityCode	JKOT

Details screen
Primary control: Display form



The screenshot shows a mobile app interface titled 'Assets' with a close button and a checkmark icon. It displays a form for editing or creating a new asset record. The fields are identical to the details screen but are presented as input boxes: 'AssetID' (343453), 'ApproverEmail' (Ben.Change@contoso.com), 'AssetType' (Tablet), 'AssignedTo' (Barath), 'DeviceName' (Surface PRO 3 128GB), 'ImageThumbnailURL' (http://compass.surface.com/assets/09/73/097303c9-0b0c-4d60-8afa-43e5dfaa1b2d.jpg#Surface-pro-3-new.jpg), 'ImageURL' (https://www.microsoft.com/global/en-us/news/publishingimages/ImageGallery/Images/Products/SurfacePro3/SurfacePro3Primary_Print.jpg), and 'SecurityCode' (JKOT).

AssetID	343453
ApproverEmail	Ben.Change@contoso.com
AssetType	Tablet
AssignedTo	Barath
DeviceName	Surface PRO 3 128GB
ImageThumbnailURL	http://compass.surface.com/assets/09/73/097303c9-0b0c-4d60-8afa-43e5dfaa1b2d.jpg#Surface-pro-3-new.jpg
ImageURL	https://www.microsoft.com/global/en-us/news/publishingimages/ImageGallery/Images/Products/SurfacePro3/SurfacePro3Primary_Print.jpg
SecurityCode	JKOT

Edit and Create screen
Primary control: Edit form

Canvas: Standard versus Customized List

Standalone Power Apps and **SharePoint Customized List** form are essential same. However, there are a few important differences that need to weigh before an avenue is chosen.

Feature set	Stand Alone	Customized SharePoint List
Backup / Export	✓	✗
SharePoint List UI integration	✗	✓
Embed in SharePoint Page	✓	✓
Power Apps Permissions	✓ with Power Apps management interface	SharePoint Permissions
Publish to Microsoft Teams	✓	✗

Understanding Power Apps Formula

Overview

- Each Control can have many properties
- Formulas make up the definition for the
- Control properties in your app

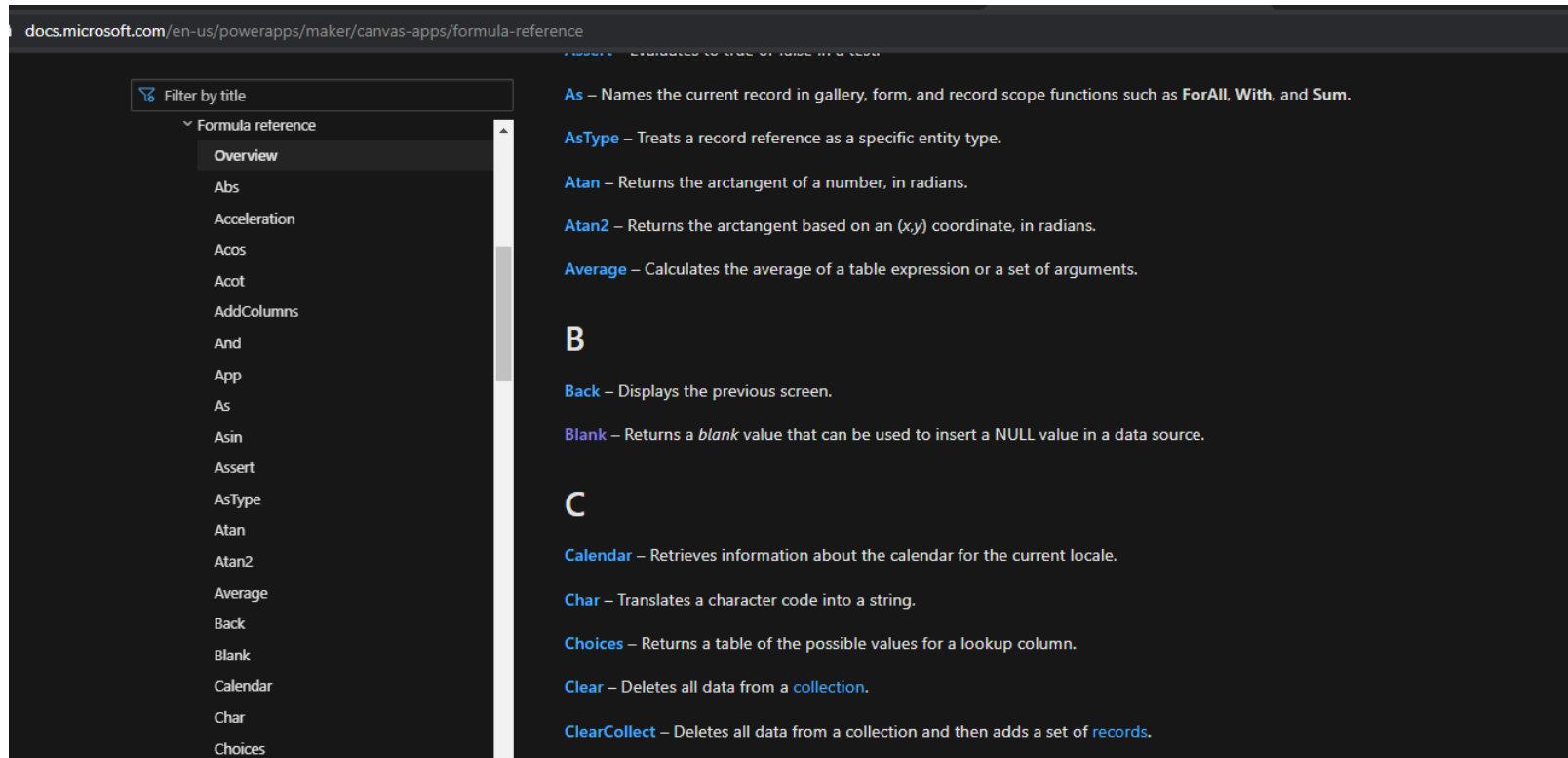
Different from Traditional Coding –Think Like Excel

- PowerApps Formulas are **very similar to Excel Formulas**
- **Lots of small pieces** of code rather than complex scripts.
- As things change in the app formulas are **automatically recalculated**.
- Formulas can reference **other properties like referencing** other cells in a spreadsheet

Formula reference for Power Apps

Overview

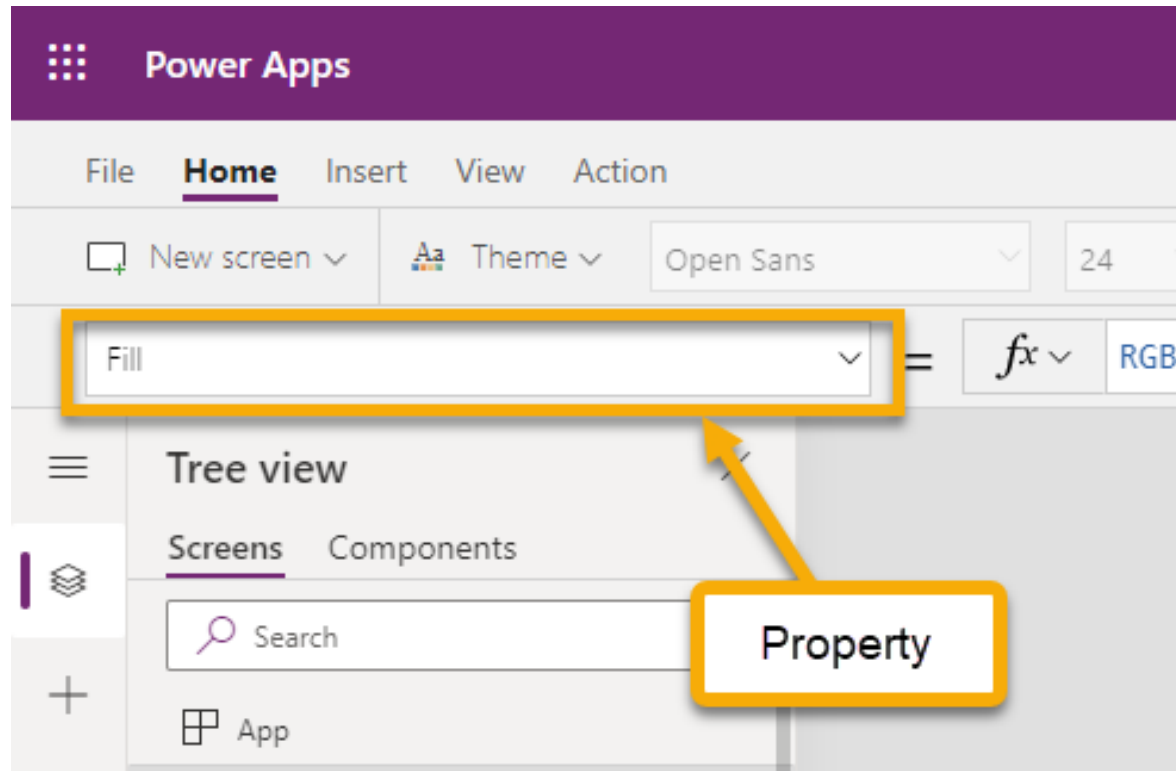
- [Formula reference for Power Apps](https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/formula-reference)



Formula reference for Power Apps

Overview

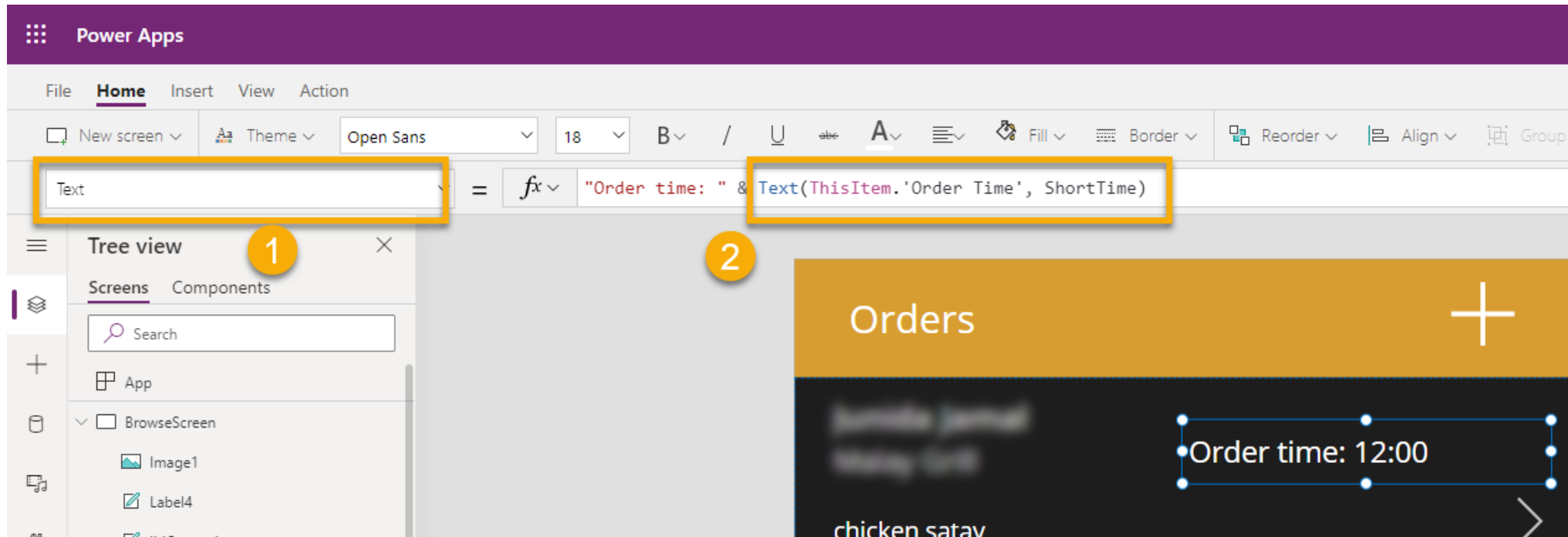
- **Fill Property** - The [background color](#) of a control.



Formula reference for Power Apps

Overview

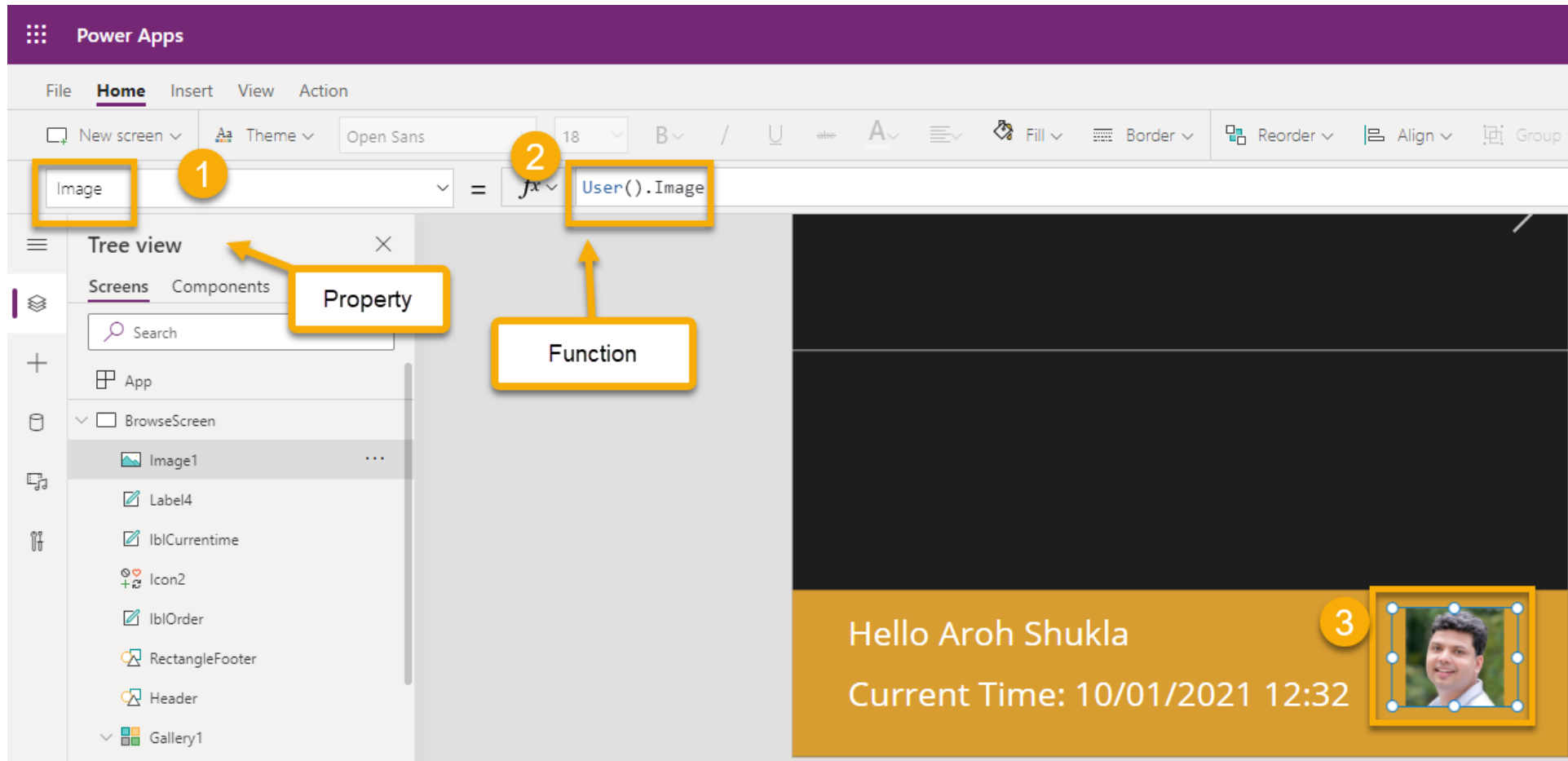
- **Text Function** - Converts any value and formats a number or date/time value to a string of text



Formula reference for Power Apps

Overview

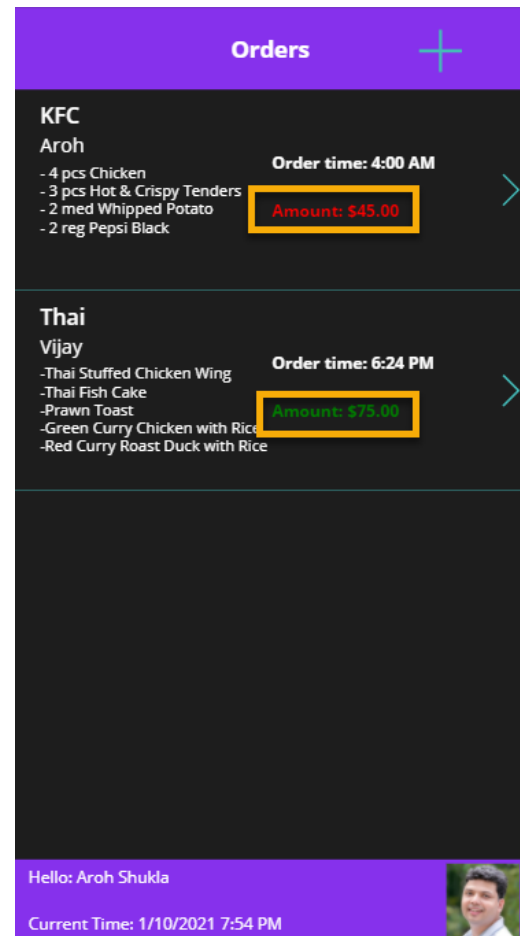
- **User Function** - [Returns information about the current user.](#)



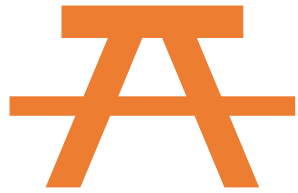
Formula reference for Power Apps

Overview

- **Conditional Formatting** – You can use [Conditional Formatting](#) along with [If function](#) to determines whether any condition in a set is true (If) or the result of a formula matches any value in a set (Switch) and then returns a result or executes an action.



1. Creating a Check In app



Simple **check-in** app

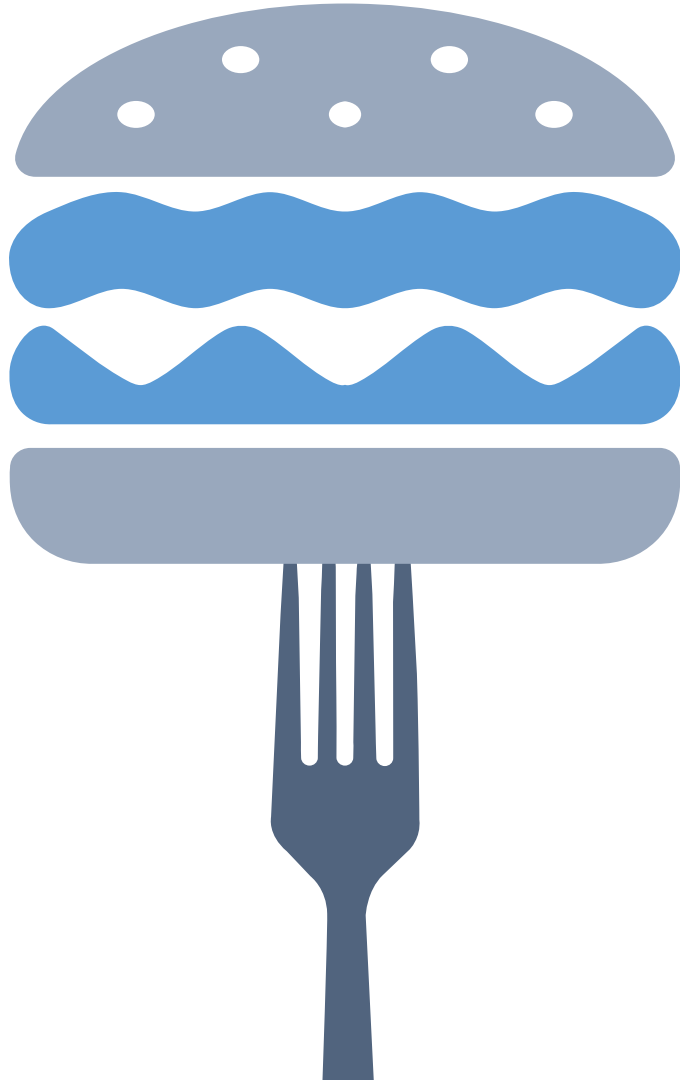


submit their **hardware**
issue



Data source – **OneDrive** /
Excel

Scenario 2 (SPO + Power Apps)



Business case

Users can **easily order food delivery service** at the comfort of their home due to COVID-19



Data Source

SharePoint Online Custom List .



Only with Mobile Phone

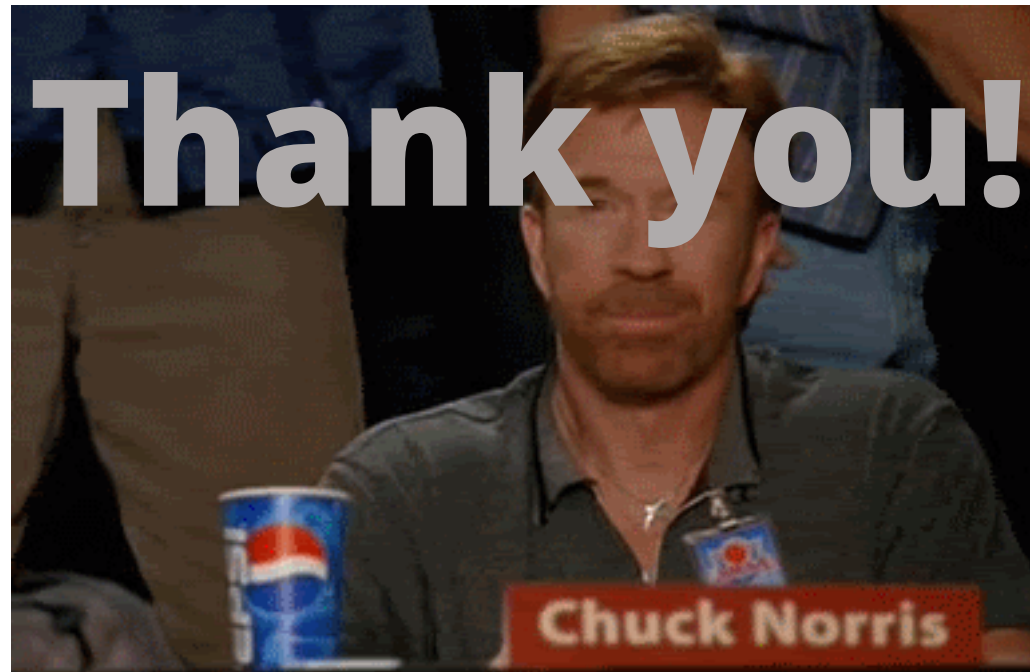
Ordering will only through mobile phone.



Demo

Build app SharePoint
Online

YOU HELD THROUGH !



Prepared by:

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