

Getting Started with PowerApps Studio



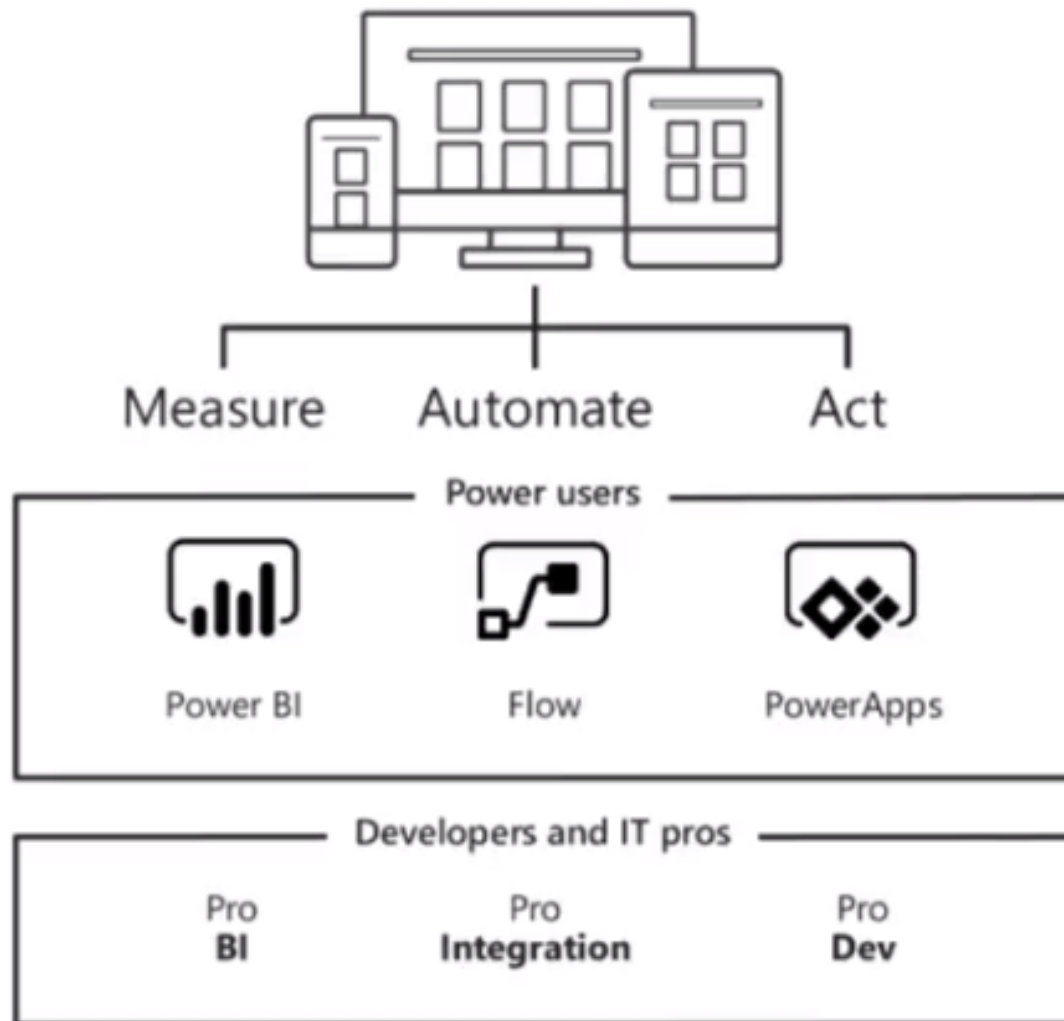
Agenda

- Getting Started with PowerApps Studio
- Understanding Screens, Forms, Controls and Fields
- Form Interactivity and Navigation
- Understanding Data Sources and Connectors
- Binding to Data using Card Controls and Data Cards
- Publishing and Sharing PowerApps



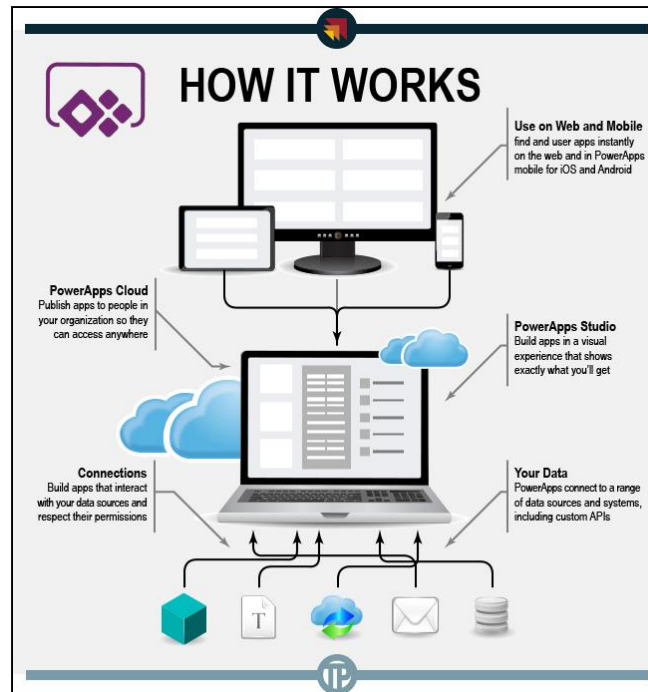
Business Application Platform

- Power BI
- PowerApps
- Flow

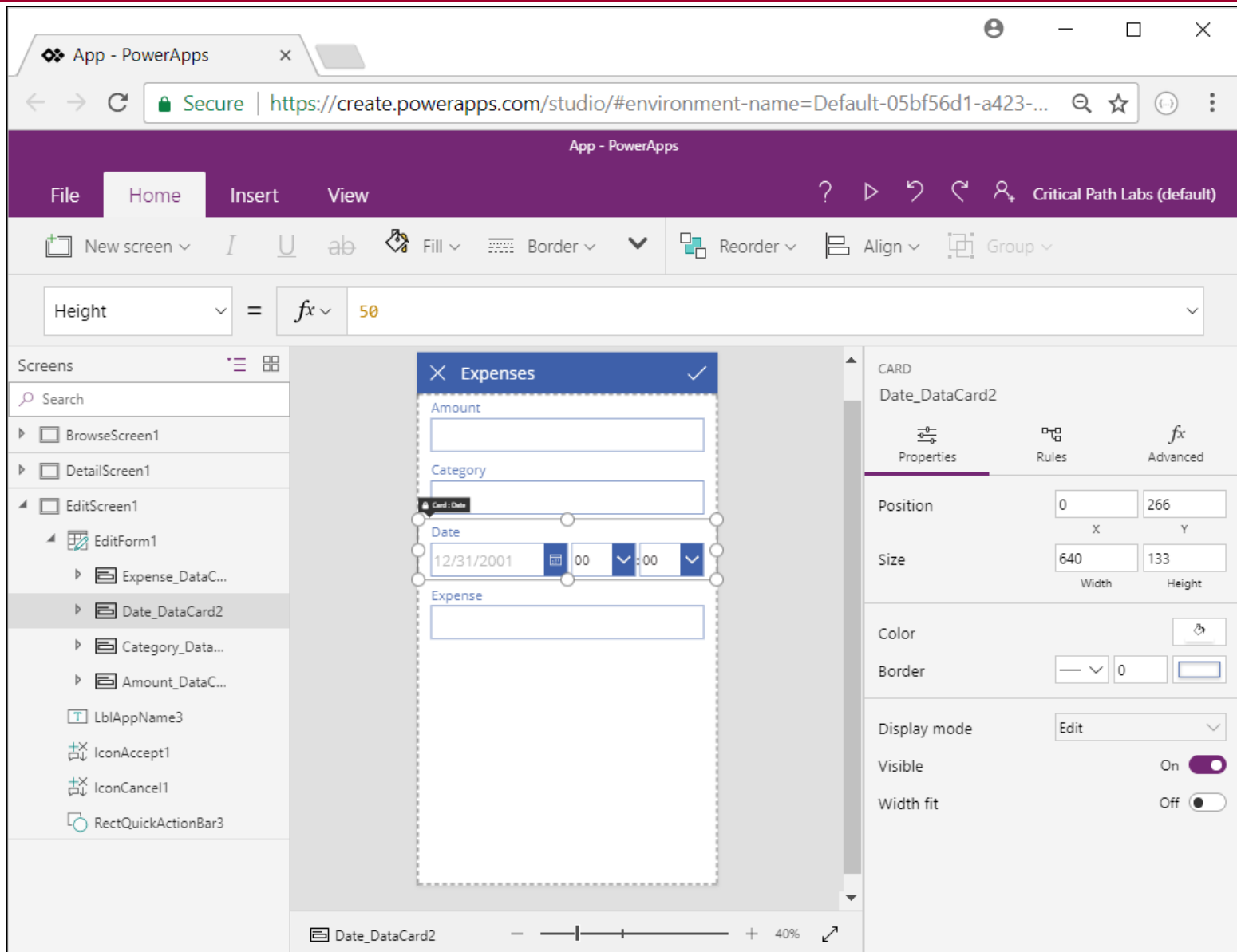


What is PowerApps?

- Service for building and using custom business apps
 - Apps run in any browser and on mobile devices and tablets
 - Apps connect to datasources and services through connectors
 - Targeted at Power Users more than professional developers



PowerApps Studio Interface



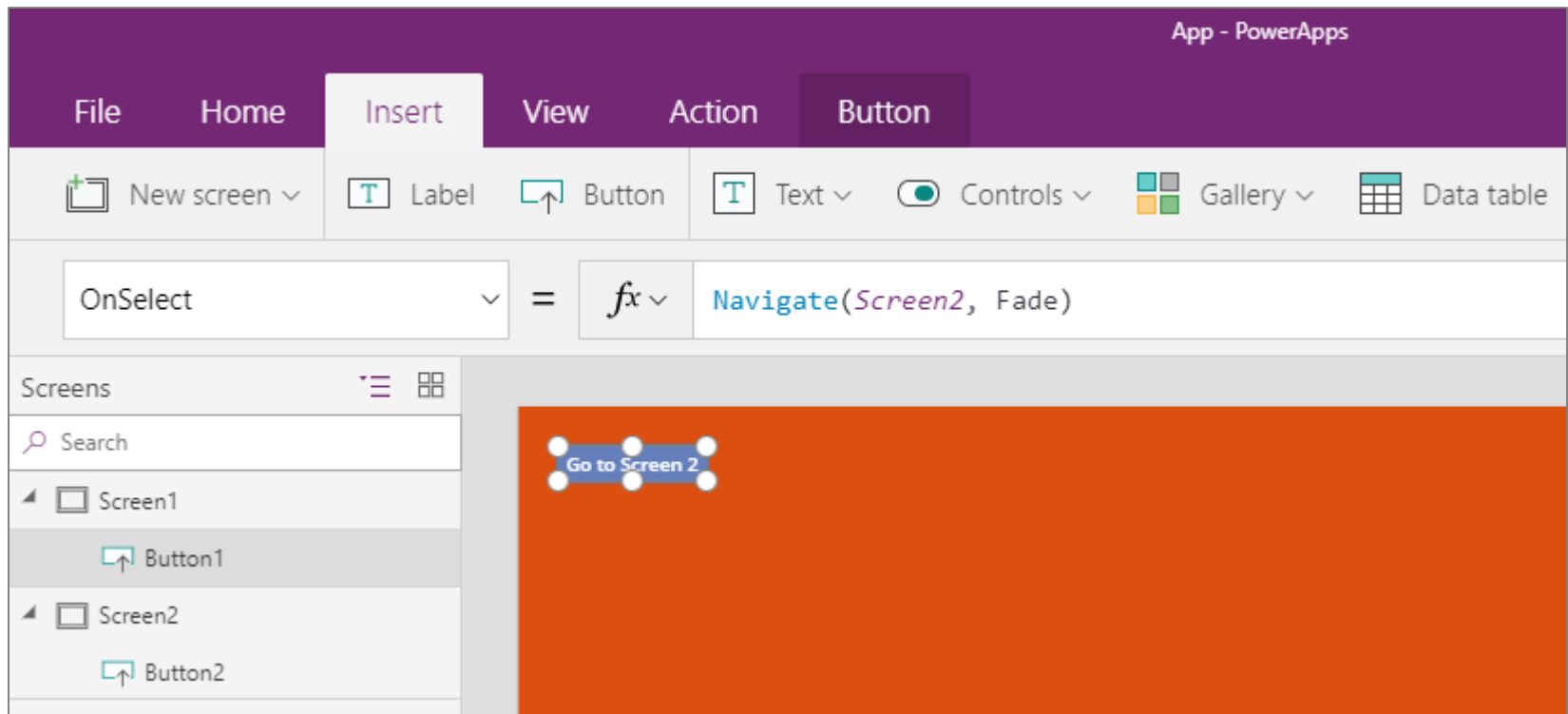
Screens and Controls

- Screens represent the atomic of UI design
 - Your app can have as many screens as you need
 - Your app supplies means to navigate across screen
- You can add controls to screens
 - Controls properties change appearance and behavior
 - Control properties can be input or output properties
 - Control properties not used for 2-way binding
 - Properties configured in Properties tab or in formula bar



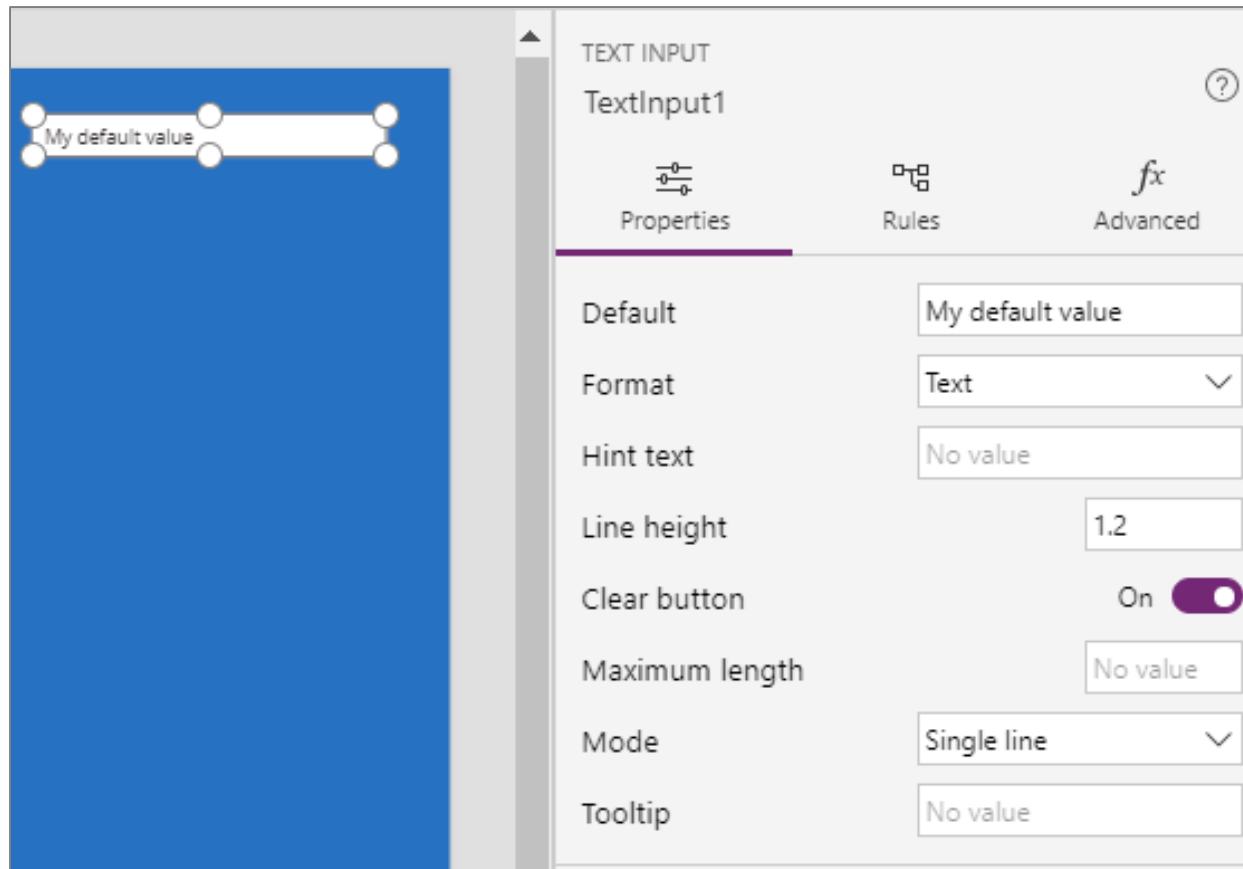
Interactivity & Screen Navigation

- Create buttons to drive navigation



Properties Panel

- Used to configure control properties without writing a formula
 - Properties exposed varies based on control



Adding Controls

- **Text:**
 - Label, Text input, HTML Text, Pen input
- **Controls:**
 - Button, Dropdown, Date picker, List box, Checkbox, Radio, Toggle, Slider, Timer
- **Gallery:**
 - Vertical, Horizontal, Flexible height, Blank vertical, Blank horizontal
- **Data table**
- **Forms:**
 - Edit, Display, Entity form
- **Media:**
 - Image, Camera, Barcode, Video, Audio, Microphone, Add picture
- **Charts:**
 - Column chart, Line chart, Pie chart
- **Icons**



Form Layouts

Vacation Request

* Vacation Start Date
12/31/2001

* Vacation End Date
12/31/2001

* Time Off Type

Comments

Card : PTO

PTO

DataCard_PTO2

CARD
DataCard_PTO2

Properties Data Advanced

Form customization ?

Vacation Request
zoe@ck2017.onmicrosoft.com
SharePoint

Refresh

☒ Snap to columns ? 1

Layout Vertical

Form layout

Vertical Horizontal



Card Controls and Data Cards

- **Card controls**
 - Building blocks of the **Edit** and **Display** form controls
 - **Form** represents entire record
 - **Card** represents a single field of the record
- **Cards** configured in right-hand pane
 - Choose which fields to show
 - Change order of fields
 - Change how to show each field



Data Cards

The image displays a PowerApps interface with a 'Vacation Request' data card and its customization pane.

Data Card Fields:

- Title:** Time off Request
- Vacation Start Date:** 9/4/2017
- Vacation End Date:** 9/10/2017
- Time Off Type:** (Dropdown menu)
- Comments:** SharePoint conference in Stockholm
- PTO:** (Toggle switch, currently on)
- Request Status:** (Dropdown menu)

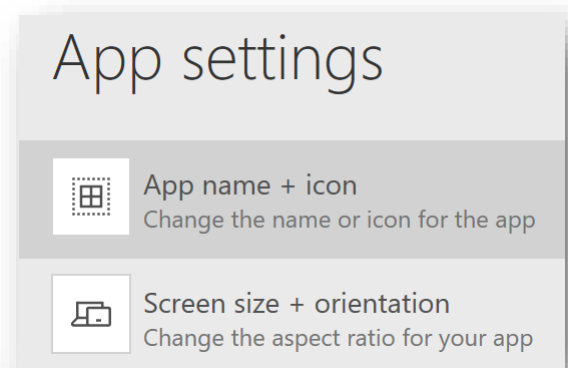
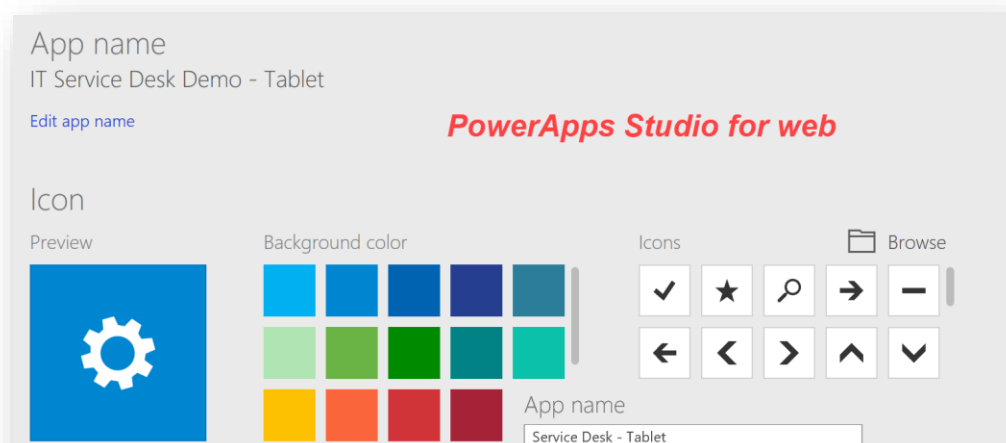
Customization Pane (DataCard_Title2):

- Form customization:** Includes a 'Refresh' button.
- Layout:** Set to 'Vertical'.
- Fields:** A list of fields to be displayed on the card. The 'Title' field is selected and highlighted with a red box. Below it, a dropdown menu is open, showing options: 'View text', 'View phone', 'View email', 'Edit text', 'Edit multi-', and 'Allowed'. The 'Edit text' option is also highlighted with a red box.

A red arrow points from the 'Title' field in the data card to the 'Title' field in the customization pane, indicating the link between the field and its configuration options.

App Name & Icon

- Name, icon, and description settings your app
- **File tab > App Settings (PowerApps Studio)**



Components of a Connector

- Components offers a set of operations:
 - **Actions**
 - Changed directed by a user such as an action to lookup, write, or delete data
 - **Triggers**
 - Can notify your app when a specific event occurs
- Two types of triggers:
 - **Polling triggers** – These triggers call your service at a specified frequency to check for new data.
 - **Push triggers** – Provides ability to send various notifications that directly targets your Apps. Trigger push notification directly from an App or from a Flow.



Connectors and Connections

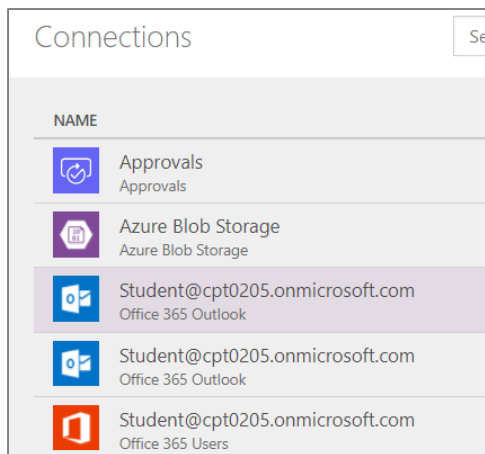
- **Connector**

- A wrapper around an API which allows PowerApps and Flow to read and write from external datasource



- **Connection**

- Configuration created in order to use a connector
- Connection defined data source location, login credentials and granted permissions



Granting Permissions

Almost there ...

Device+Ordering+App.msapp needs your permission to use:



SharePoint

Student@cpt0205.onmicrosoft.com

Signed in [View permissions](#)

[Switch account](#)



Office 365 Users

Student@cpt0205.onmicrosoft.com

Signed in [View permissions](#)

[Switch account](#)

Allow

Don't Allow



Data Panel

- Will list existing data sources
- Also provides ability to add new data sources

