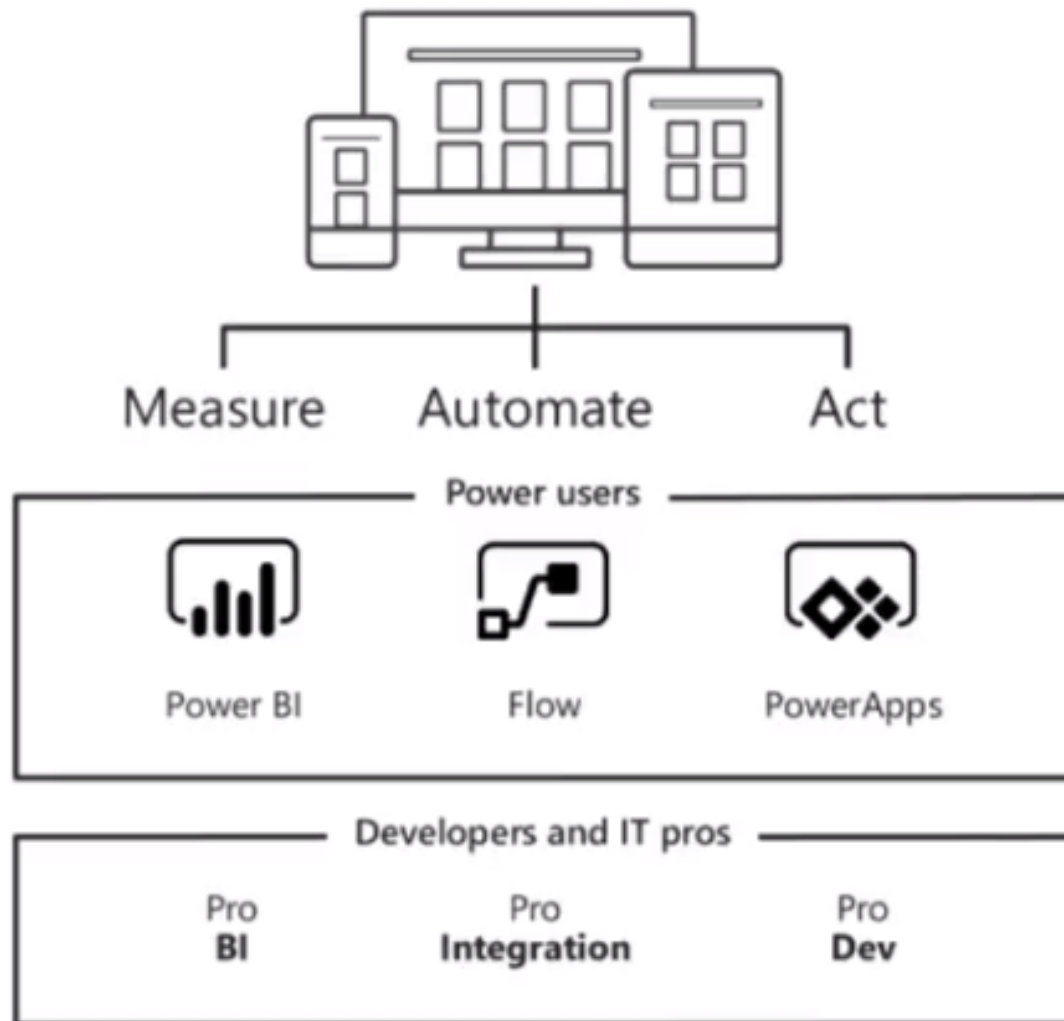# Getting Started with PowerApps Studio

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
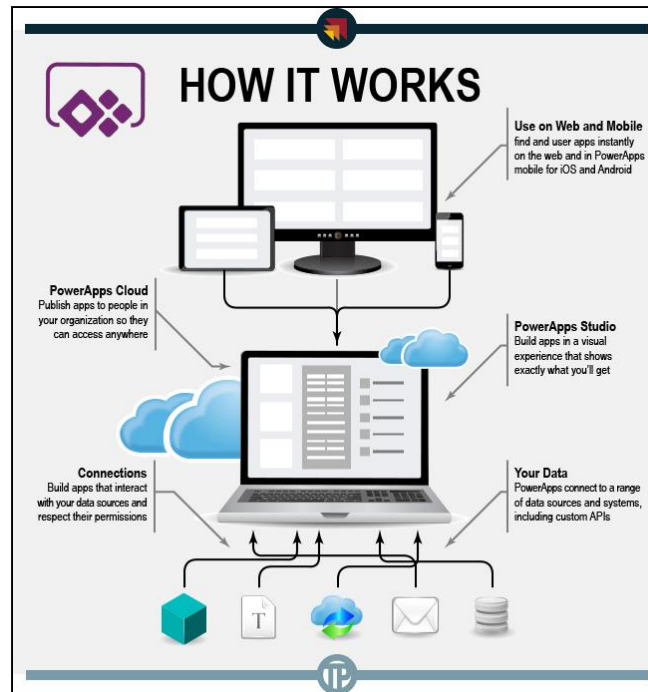
- Publishing and Sharing PowerApps

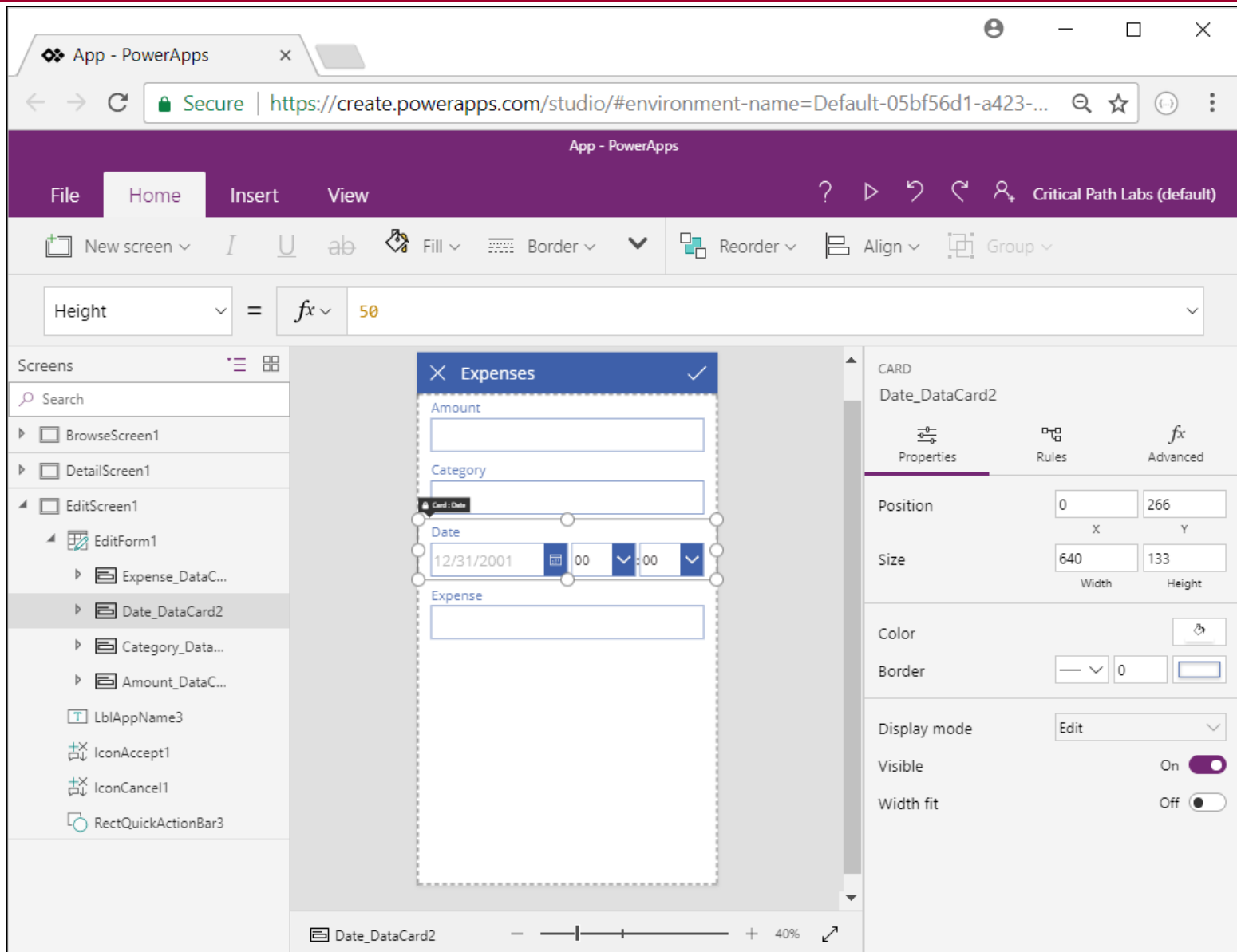# Business Application Platform

- 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
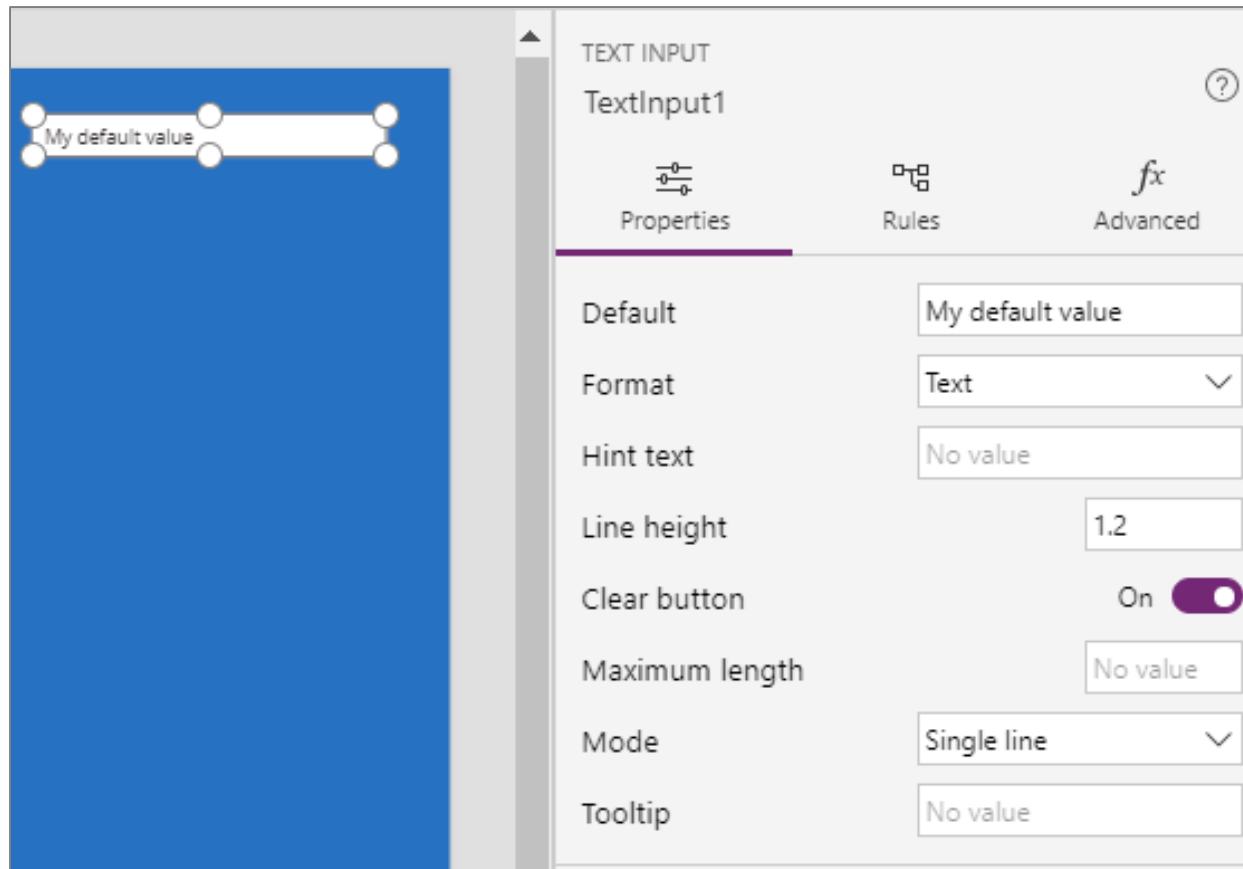 - Properties configured in Properties tab or in formula bar

Interactivity & Screen Navigation

- Create buttons to drive navigation
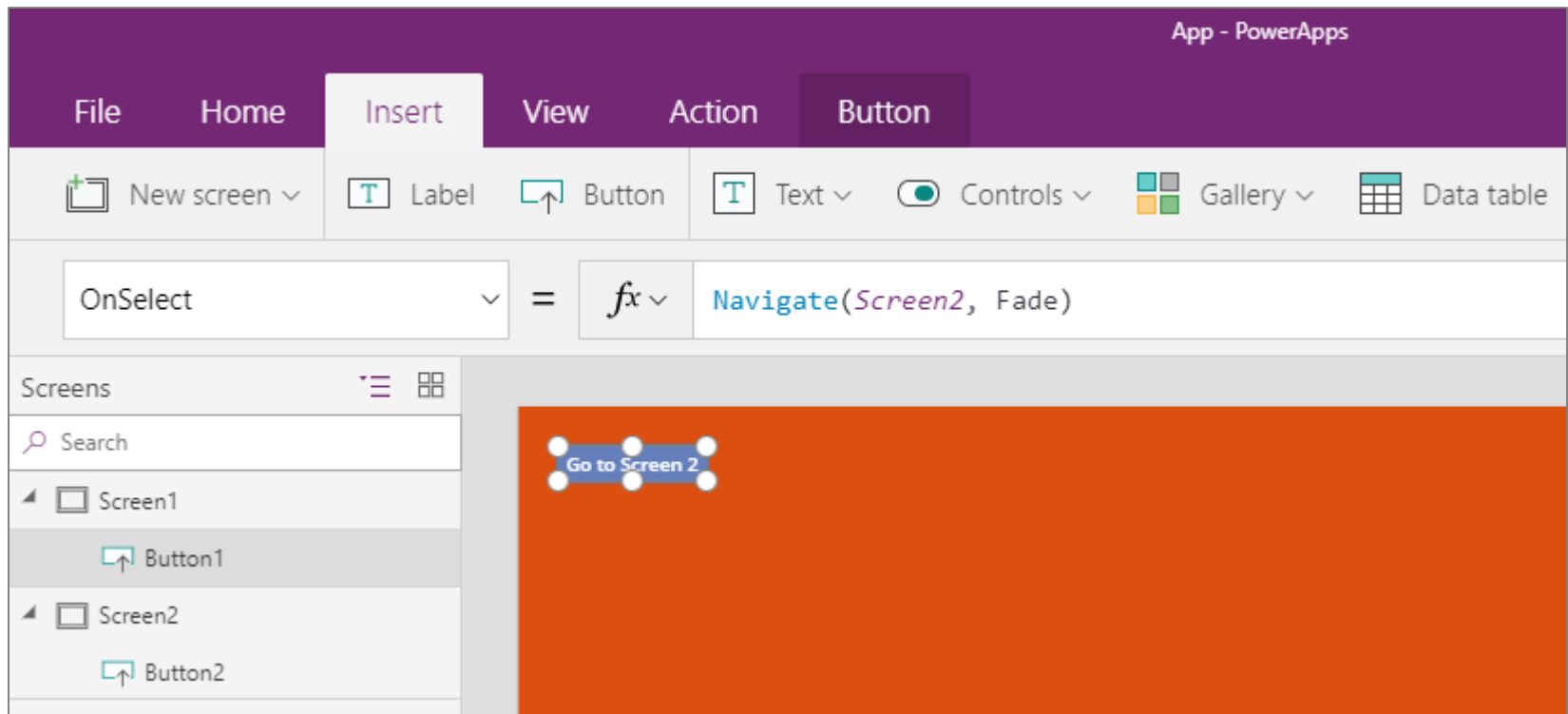
Properties Panel

- 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

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

- **C**ards configured in right-hand pane
  - Choose which fields to show
  - Change order of fields
  - Change how to show each field

Data Cards

App Name & Icon

- Name, icon, and description settings your app

- **File** tab > **App Settings** (PowerApps Studio)
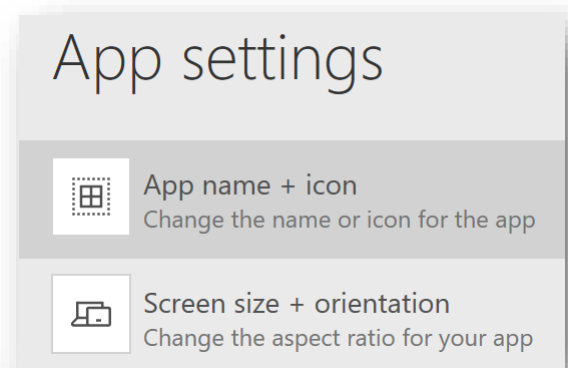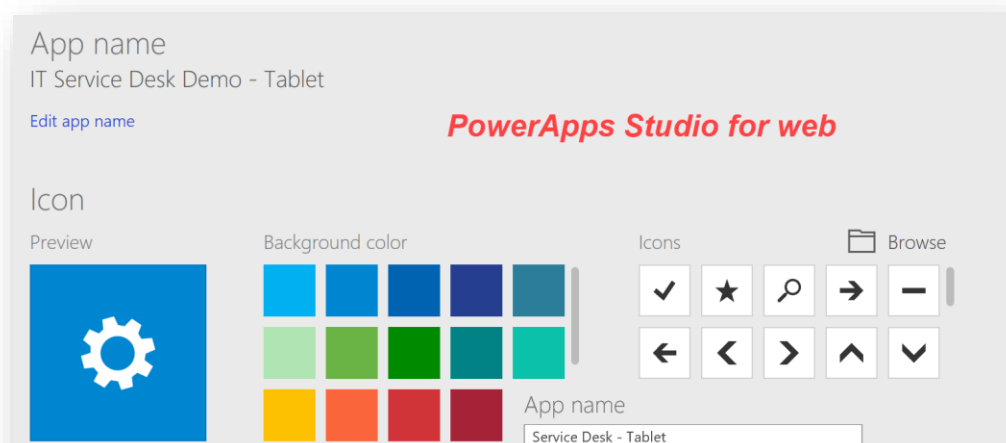
Components of a Connector

- 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.
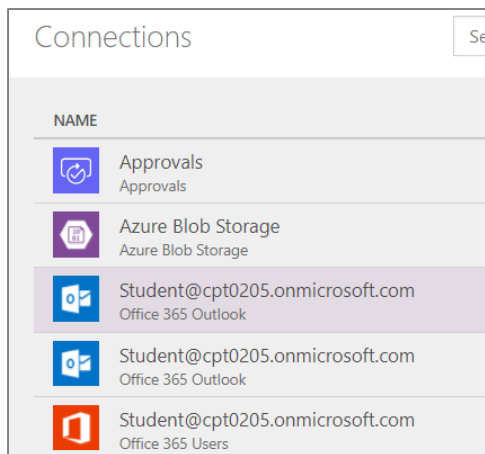
Connectors and Connections

- **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