Getting Started with PowerApps Studio

Student Background

- What is your name?

- What are you doing with PowerApps and Flow?

- Which products and services have you used?
  - PowerApps and Flow
  - Microsoft Excel
  - Office 365
  - SharePoint Online
  - Power BI
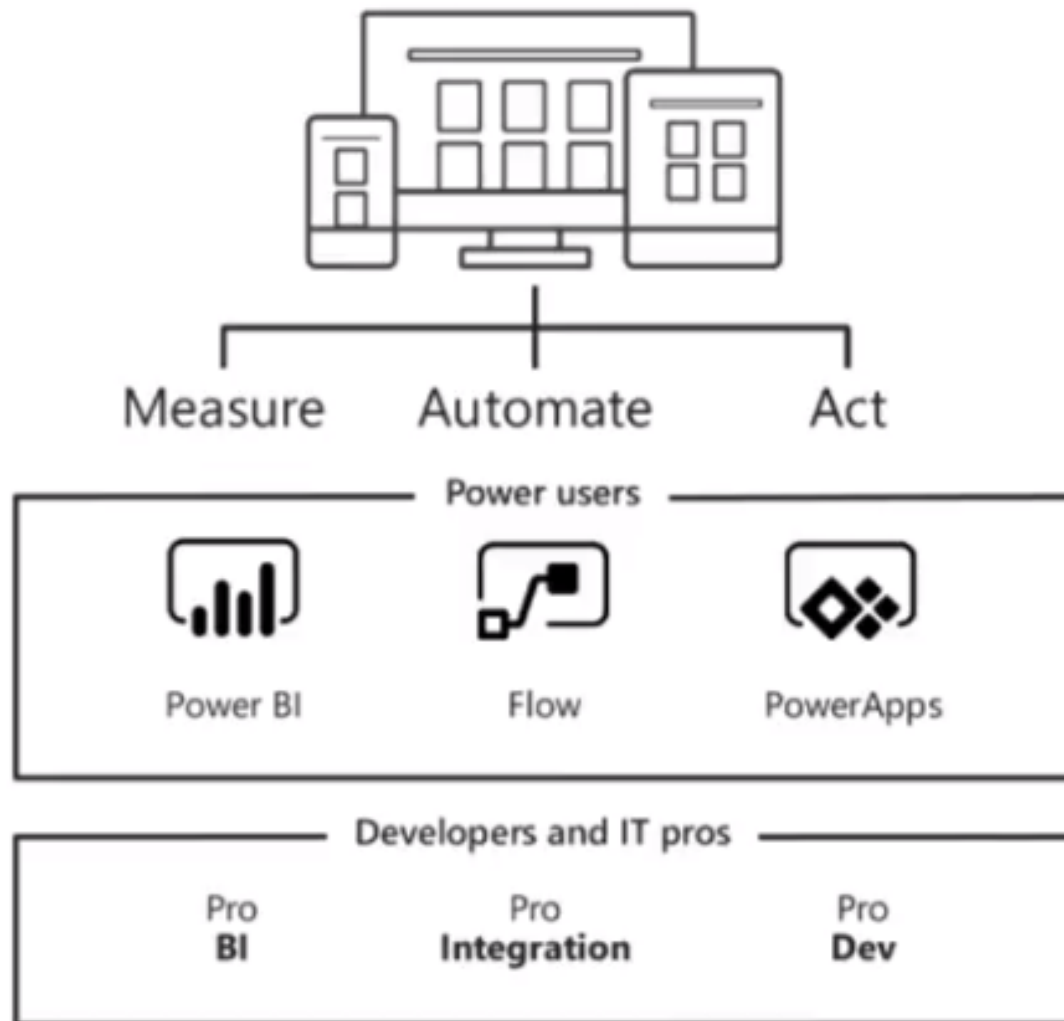 - Dynamics 365
  - Others

Agenda

- Getting Started with PowerApps Studio

- Understanding Screens, Controls, Forms and Fields

- Screen Interactivity and Navigation

- Understanding Data Sources and Connectors

- Binding to Data using Forms and Card Controls

Business Application Platform

- Power BI
- PowerApps
- Flow

Measure   Automate   Act

Power users

Power BI   Flow   PowerApps

Developers and IT pros

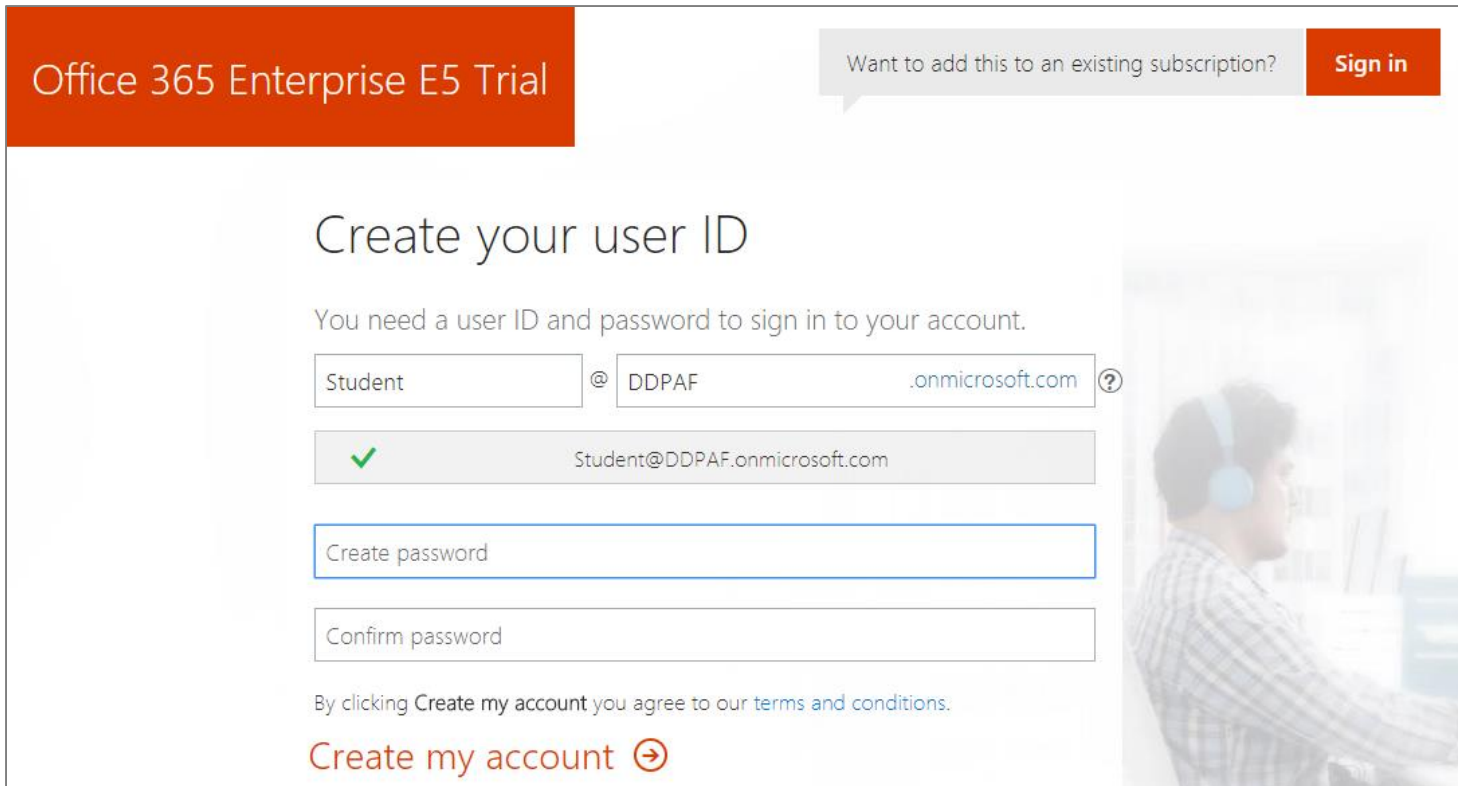| Pro **BI** | Pro **Integration** | Pro **Dev** |

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
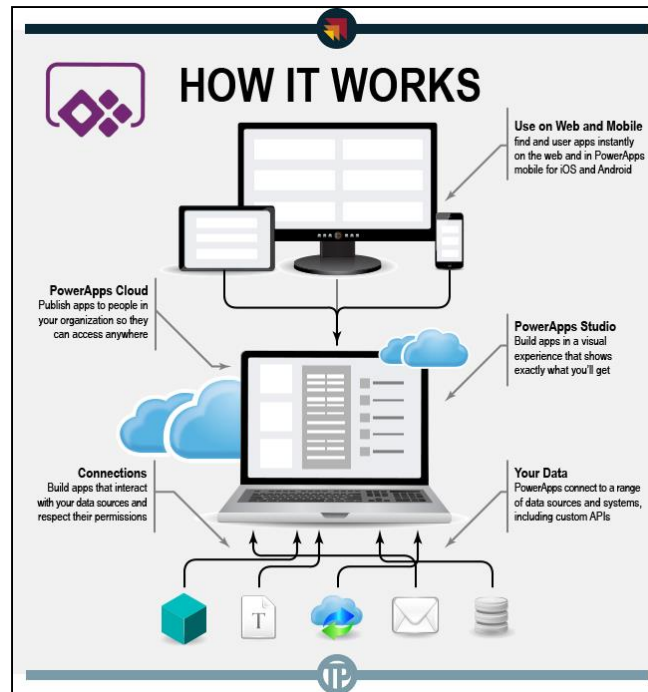
Creating an Office 365 E5 Trial Tenant

- All students will create an Office 365 trial tenant
  - Provides an isolated development environment for lab exercises
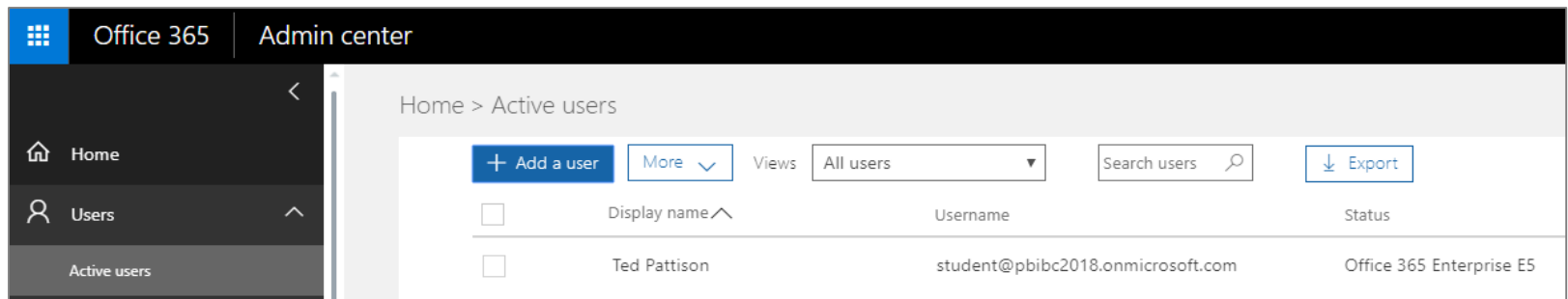 - Trial accounts will last for 30 days

Central Admin

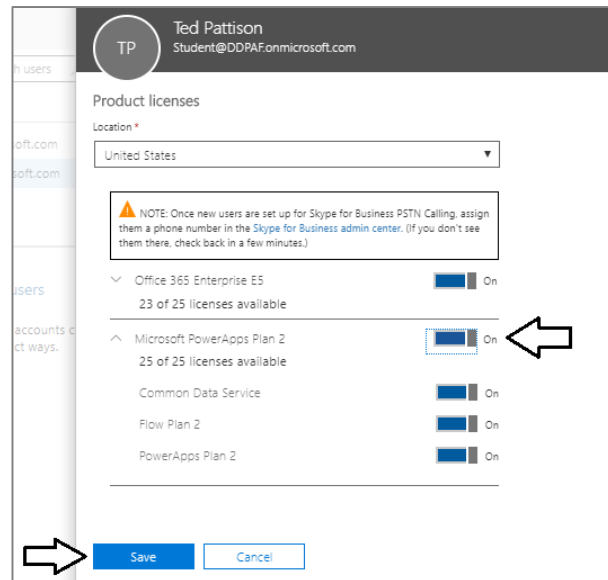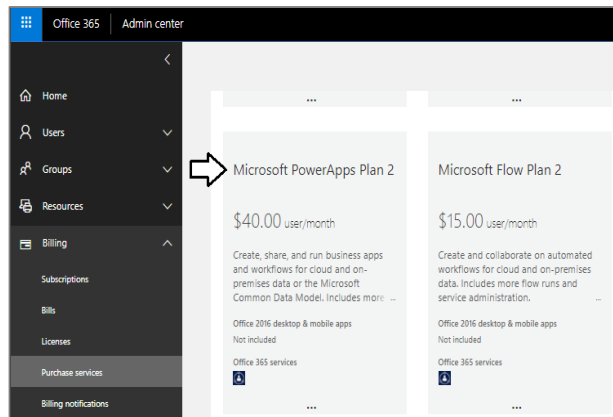- Navigate to the Office 365 Admin center
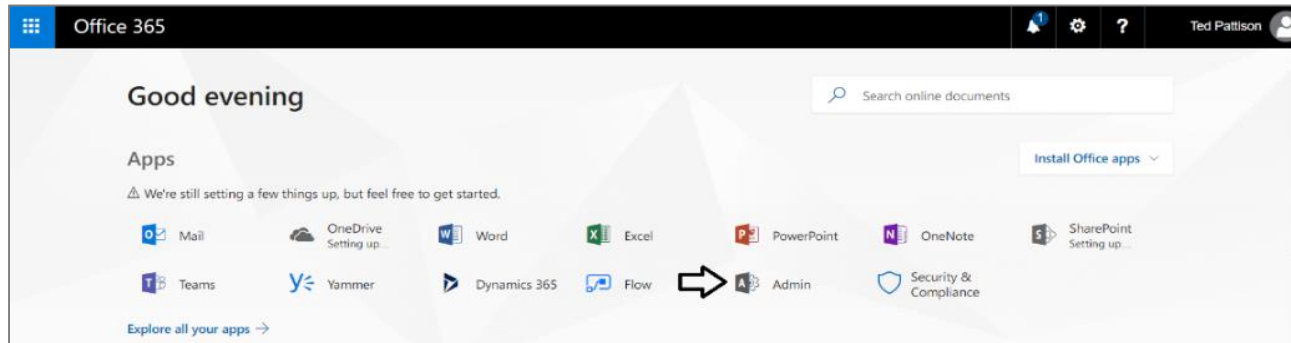
- Allows for management of users accounts and licensing

PowerApps Plan 2

- Certain design tasks require PowerApps Plan 2
  - You can start a 30-day trial for PowerApps Plan 2
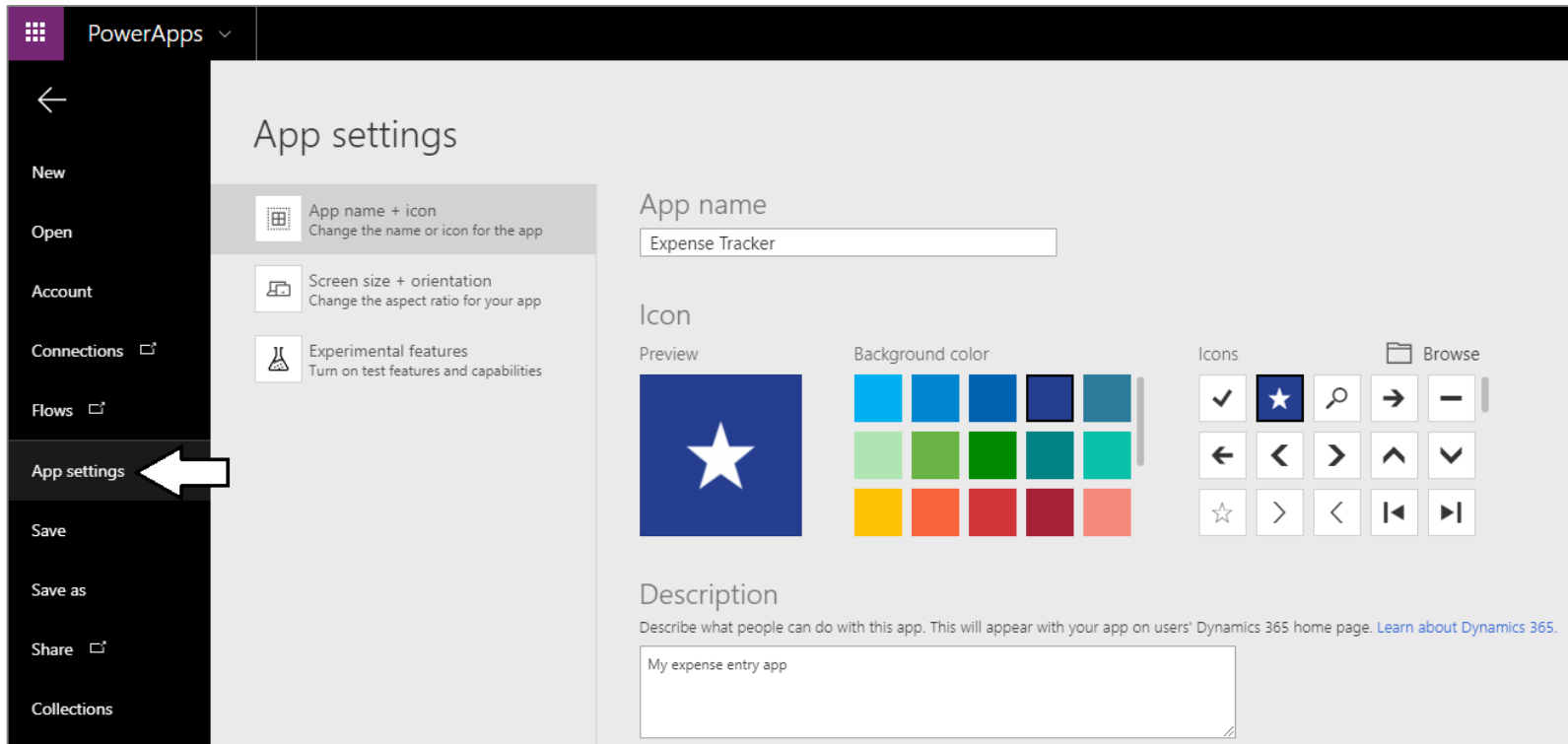 - License must be assigned to individual user accounts

PowerApps Studio Interface

- PowerApps Studio for the Web used to build apps
  - Environment supported across platforms (Windows & Mac)
  - Supports all popular, modern browsers
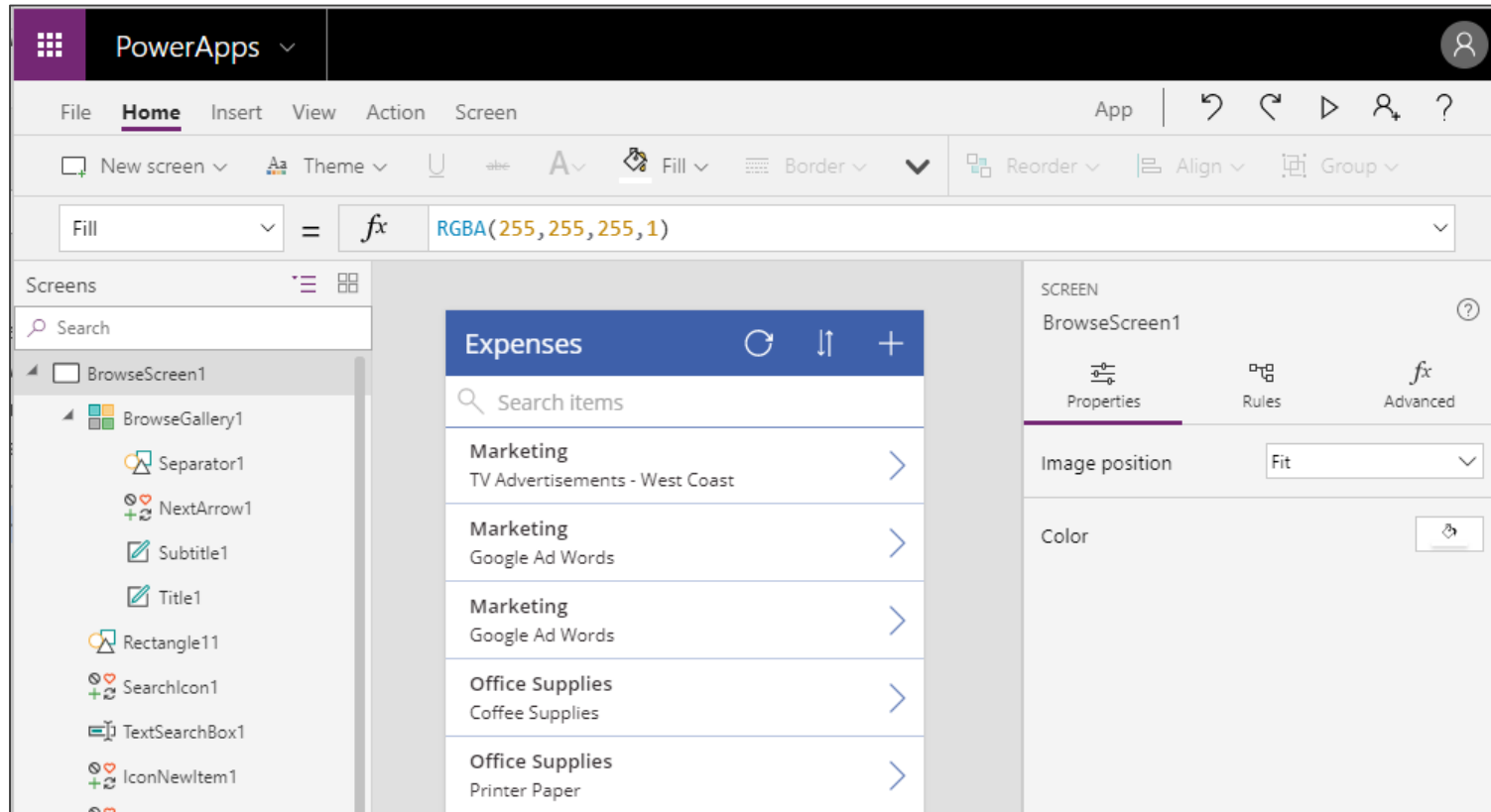
App Name & Icon

- File tab > App Settings
  - Name, icon, and description settings your app

Screen size + orientation – Tablet Layout

Screen size + orientation – Phone Layout
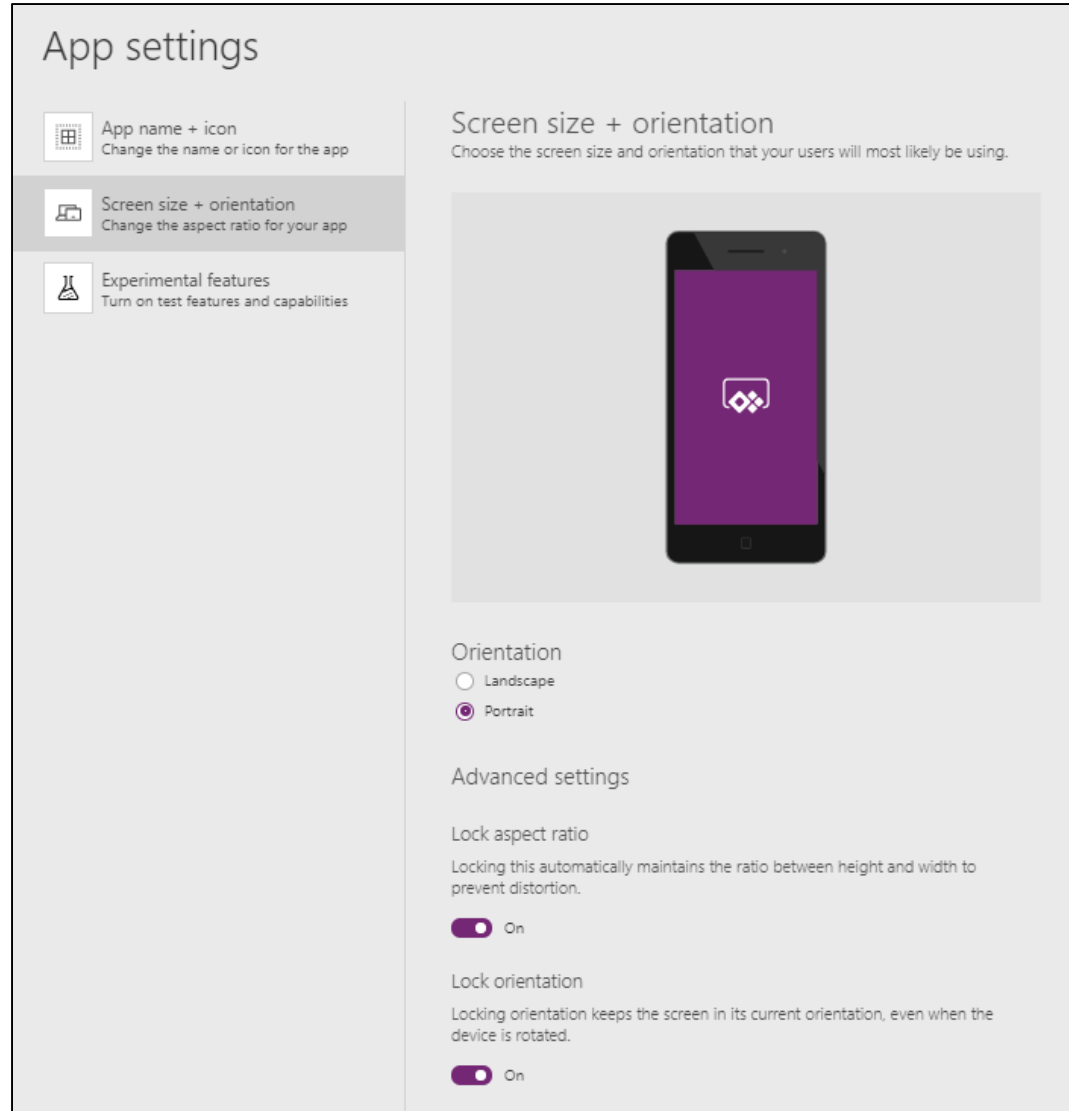
DEMO

Creating an App with the Budget Tracker App Template

Agenda

- ✓ Getting Started with PowerApps Studio
- ➢ Understanding Screens, Controls, Forms and Fields
- • Screen Interactivity and Navigation
- • Understanding Data Sources and Connectors
- • Binding to Data using Forms and Card Controls

Screens and Controls

- Screens provide the top level object in UI design
  - Your app can have one screen or many screens
  - Your app can have as many screens as you need
  - Your app supplies means to navigate across screen

- You design screens by adding controls
  - PowerApps provides wide variety of control types
  - Control properties change appearance and behavior
 - Properties configured in Properties tab or formula bar

Control Types

- 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:
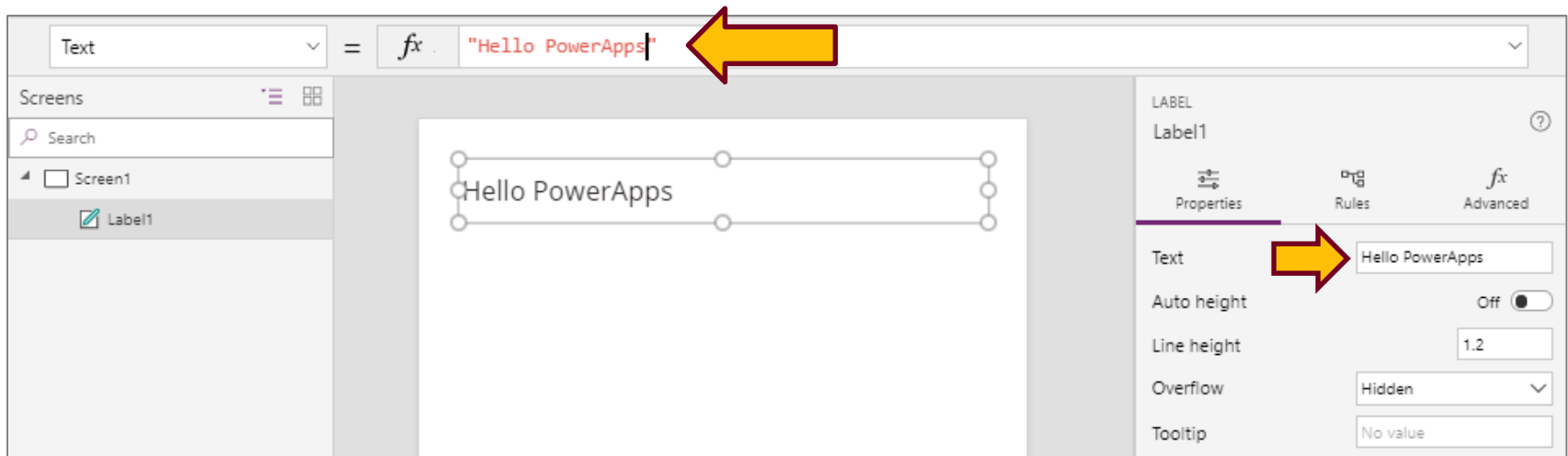 - Column chart, Line chart, Pie chart
- Icons

Adding a Control

- Controls added using commands on Insert tab
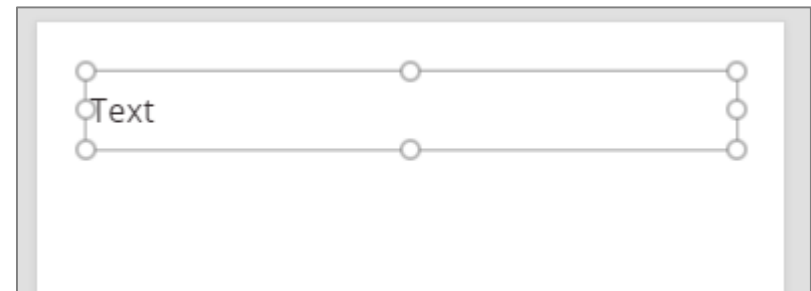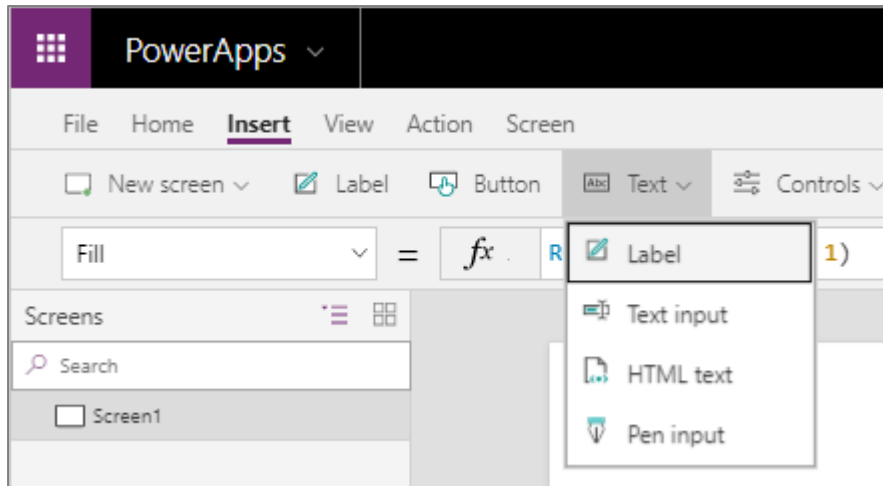
Configuring Control Properties

- Control properties can be set two different ways
  - Property values can be set using Properties pane
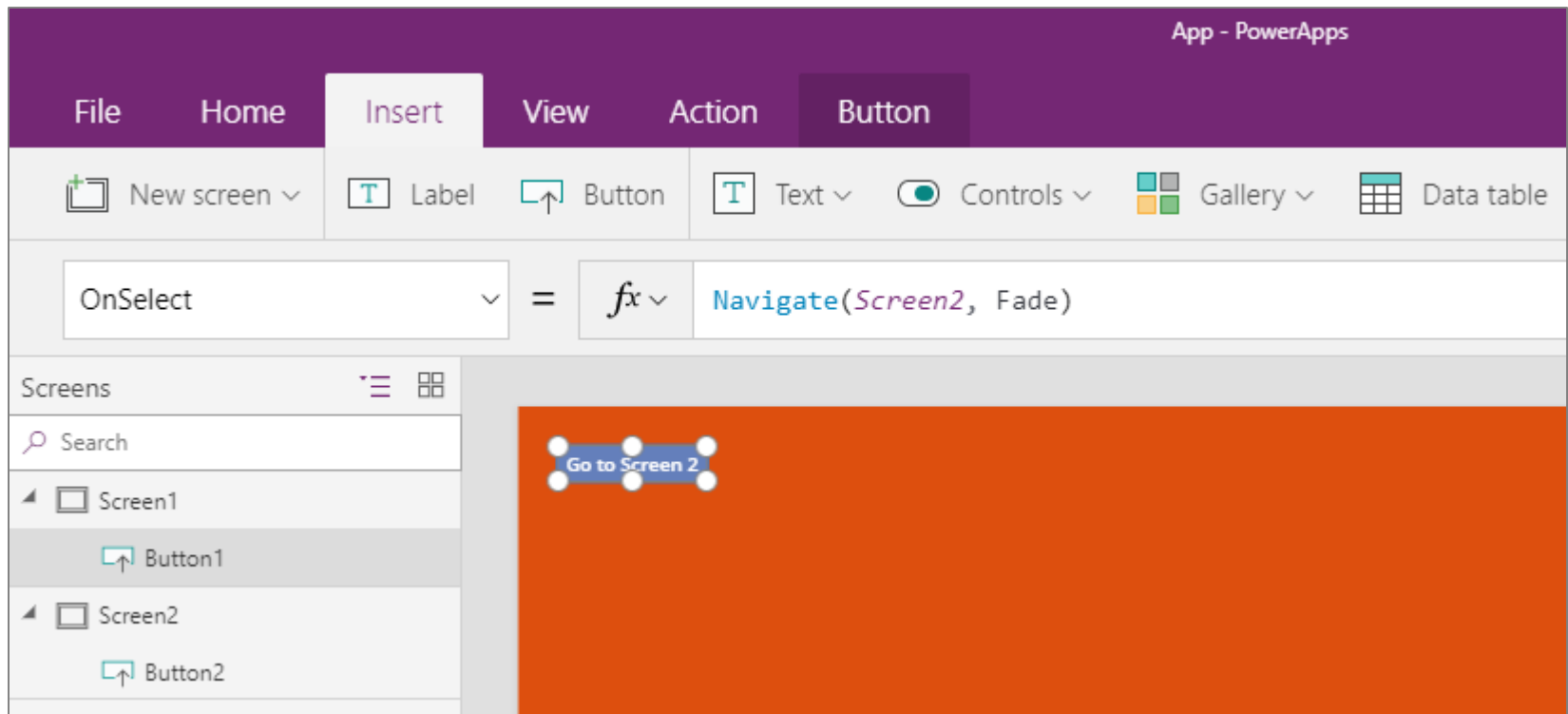 - Property values can be set using formula bar

Agenda

- ✓ Getting Started with PowerApps Studio
- ✓ Understanding Screens, Controls, Forms and Fields
- ➢ Screen Interactivity and Navigation
- • Understanding Data Sources and Connectors
- • Binding to Data using Forms and Card Controls

Interactivity & Screen Navigation

- ## Create buttons to drive navigation

Agenda

- ✓ Getting Started with PowerApps Studio
- ✓ Understanding Screens, Controls, Forms and Fields
- ✓ Screen Interactivity and Navigation
- ➢ Understanding Data Sources and Connectors
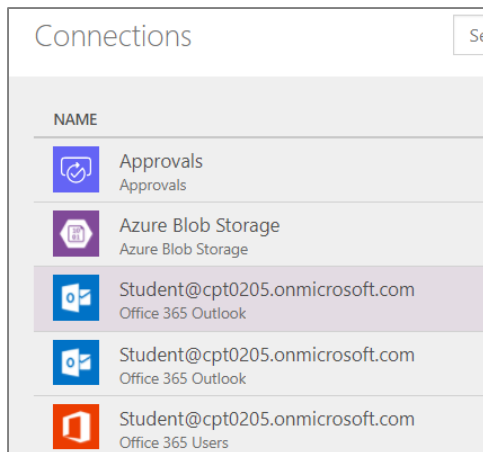- • Binding to Data using Forms and Card Controls

Connectors and Connections

- **Connector**
  - A wrapper around API which allows PowerApps to read & write from data source

- **Connection**
  - Configuration created in order to use a specific 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

- Allows for configuration of data source
  - Used to bind data to galleries and forms
  - Provides configurable layout and field binding

Agenda

- ✓ Getting Started with PowerApps Studio
- ✓ Understanding Screens, Controls, Forms and Fields
- ✓ Screen Interactivity and Navigation
- ✓ Understanding Data Sources and Connectors
- ➤ Binding to Data using Forms and Card Controls

Data Forms

- Gallery control
  - Used to browse through records
  - Can be configured to support filter, sort & search

- Display form control
  - Used to display a single record

- Edit form control
  - Used to update existing records
  - Used to create new records

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

Summary

- ✓ Getting Started with PowerApps Studio
- ✓ Understanding Screens, Controls, Forms and Fields
- ✓ Screen Interactivity and Navigation
- ✓ Understanding Data Sources and Connectors
- ✓ Binding to Data using Forms and Card Controls