## **Getting Started with PowerApps Studio**



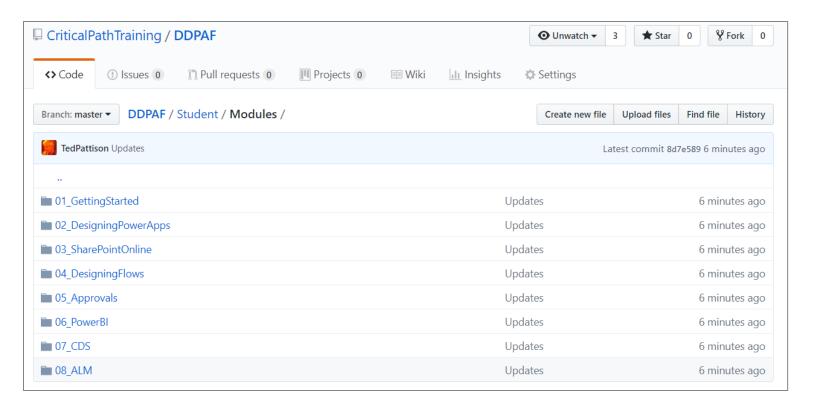
## **Student Background**

- 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



#### **Student Files**

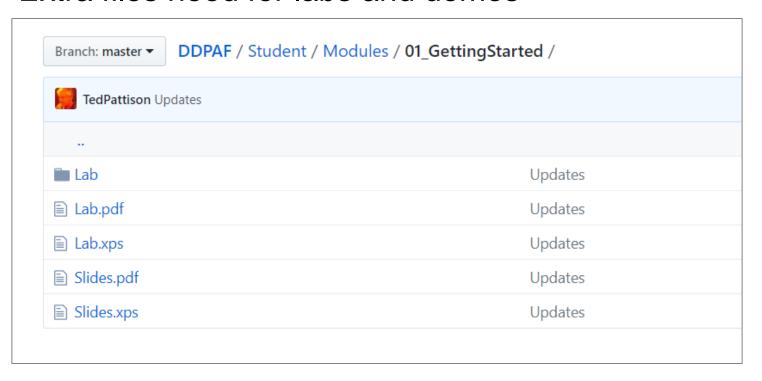
- Student files maintained in a GitHub repository
  - https://github.com/CriticalPathTraining/DDPAF





#### **Module Folders Contain Slides and Lab**

- Each module folder contains standard items
  - Slides and Labs in PDF format and XPS format
  - Extra files need for labs and demos





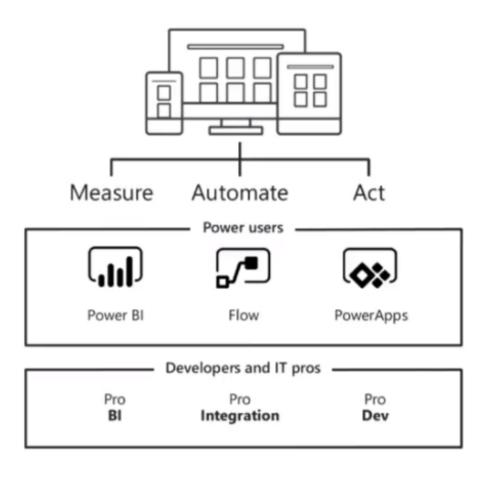
### **Agenda**

- 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**

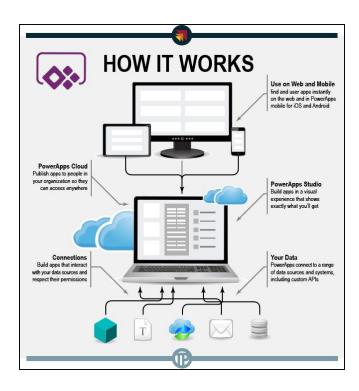
- Power BI
- PowerApps
- Flow





## 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



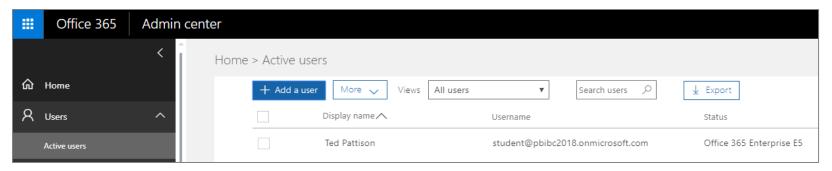


#### **Central Admin**

Navigate to the Office 365 Admin center



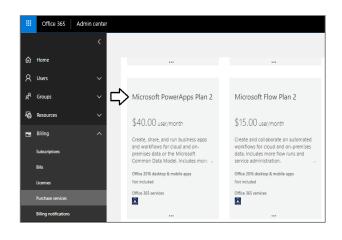
Allows for management of users accounts and licensing

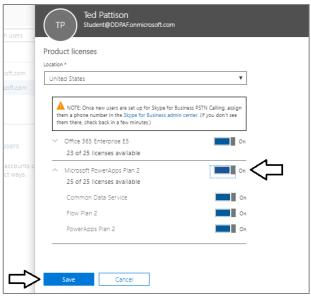


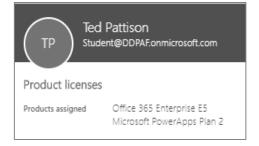


## **PowerApps Plan 2**

- 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



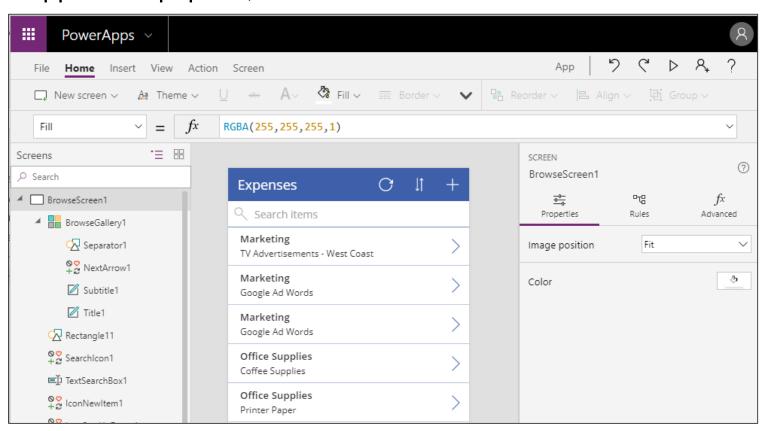






## **PowerApps Studio Interface**

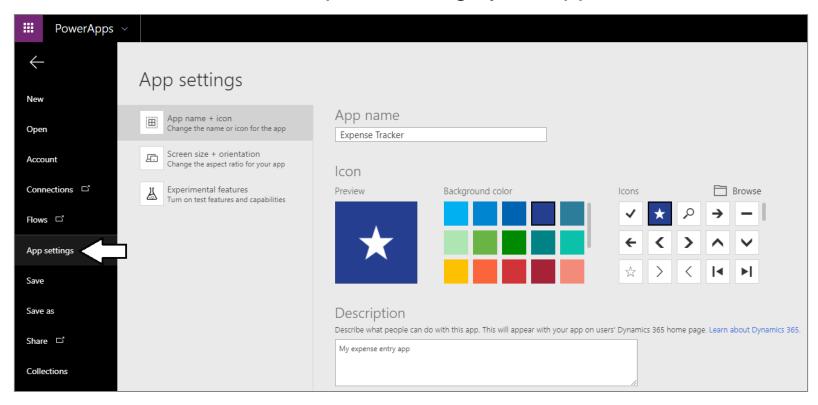
- PowerApps Studio for the Web used to build apps
  - Environment supported across platforms (Windows & Mac)
  - Supports all popular, modern browsers





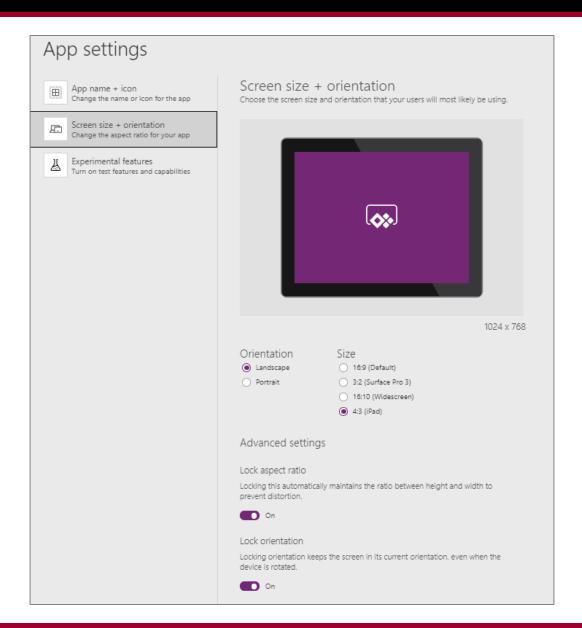
# App Name & Icon

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



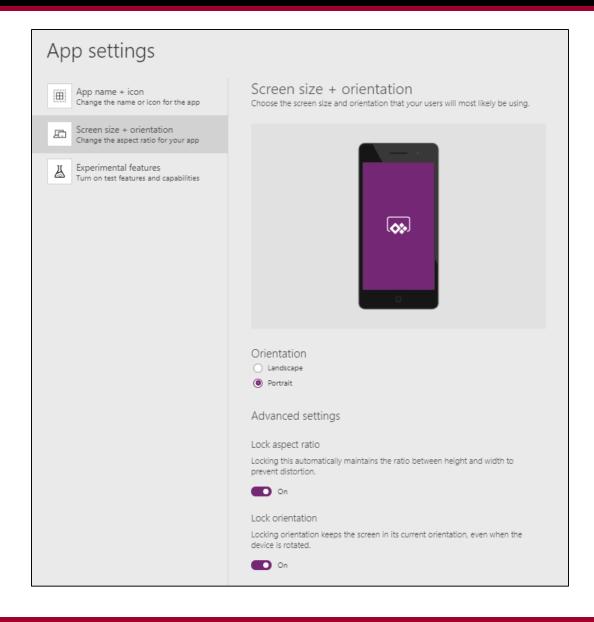


## Screen size + orientation - Tablet Layout





## Screen size + orientation - Phone Layout







### **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



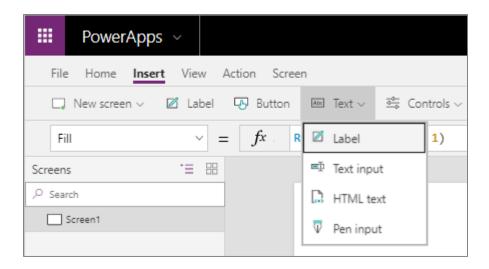
## **Control Types**

- 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

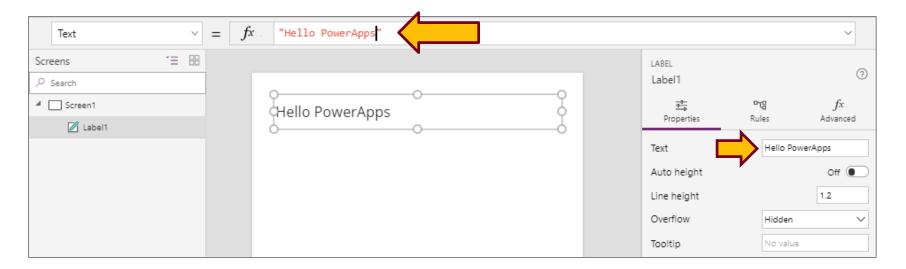






## **Configuring Control Properties**

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





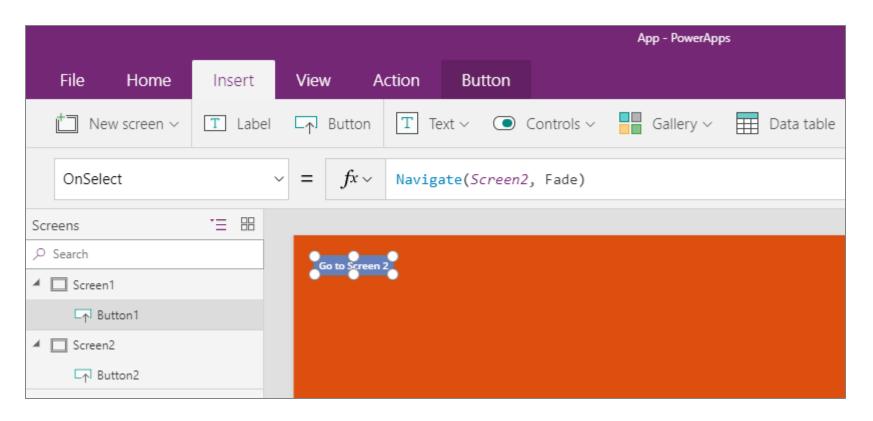
## **Agenda**

- ✓ 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**

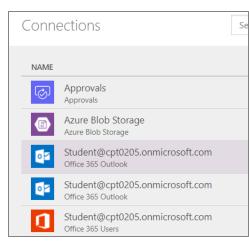
#### Connector

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 <u>View permissions</u>

Switch account



#### Office 365 Users

Student@cpt0205.onmicrosoft.com Signed in <u>View permissions</u>

Switch account

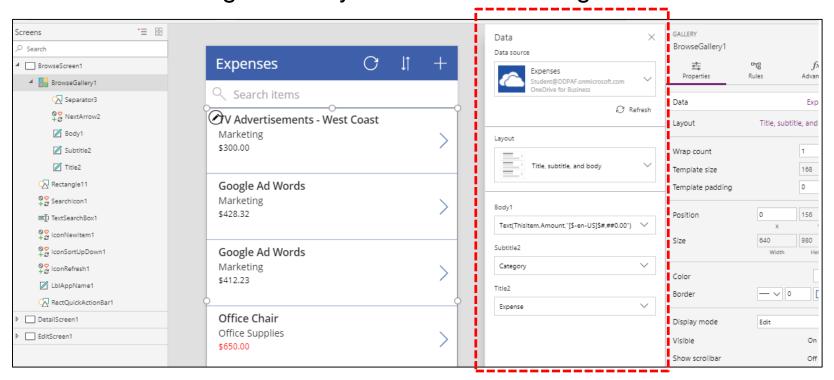
Allow

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

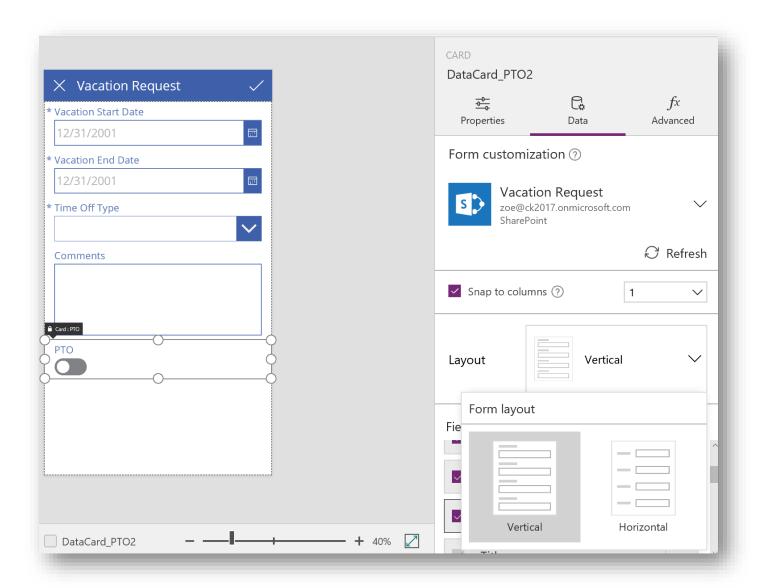


#### **Data Forms**

- 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

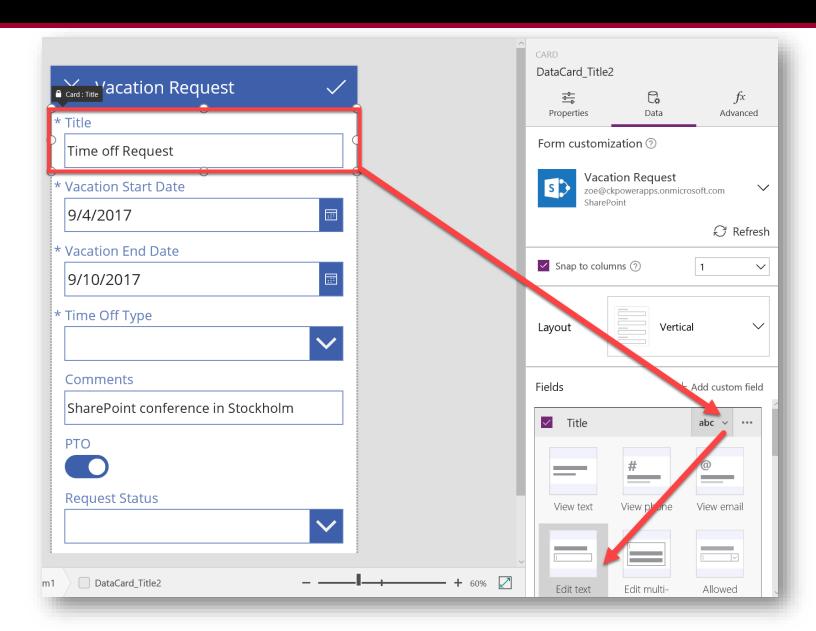
- Building blocks of the Edit and Display form controls
- Form represents entire record
- Card represents a single field of the record

## Cards 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

