

Module 1: PowerApps Canvas App

Hands-on Lab Step-by-Step

November 2018

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PowerApps Canvas App

Lab Prerequisites

Follow the pre-requisite steps described in the document: **00-AppInADay Lab Overview.pdf**, that is included in the lab package. Before beginning this lab, confirm that you have provisioned an environment where you still save your apps, flows and database entities.

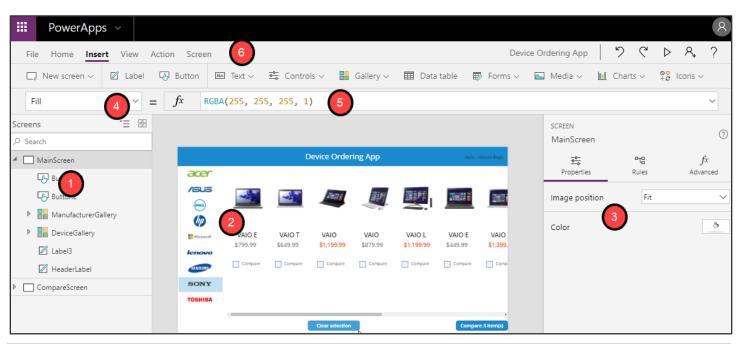
IMPORTANT: Do not proceed ahead, before going through the Lab pre-requisite steps

PowerApps Canvas Studio Layout

PowerApps Canvas Studio is available as a web application (<u>http://web.powerapps.com</u>) that you can use in any modern browser.

PowerApps Studio is designed to have a user interface familiar to users of the Office suite. It has three panes and a ribbon that make app creation feel **like building a slide deck in PowerPoint.** Formulas are entered within a function for that is like Excel. Studio components:

- 1. Left navigation bar, which shows all the screens and controls in your app
- 2. Middle pane, which contains the app screen you are working on
- 3. Right-hand pane, where you configure properties for controls, bind to data, create rules, and set additional advanced settings
- 4. Property drop-down list, where you select the property for the selected control that you want to configure
- 5. **Formula bar**, where you add formulas (like in Excel) that define the behavior of a selected control
- 6. **Ribbon**, where you perform common actions including customizing design elements



Introduction: Device Ordering Scenario

Imagine an organization where every three years the employees go through a hardware refresh cycle. The organization would like to build a customized app that runs on the web and mobile devices, which will help streamline the device order and approval process. Moreover, they do not have traditional development resources available, such as a .NET, Xamarin or custom website developer, to create this application.

Solution overview

The Microsoft business application platform technologies enable tech-savvy business users (aka "citizen developers") to build a customized device ordering solution. The application user interface and interaction logic are built in PowerApps, the approval workflow is automated using Microsoft Flow, and the device order data is stored in the Common Data Service.

Key features of the solution:

- a. Ability to browse through a selection of devices and filter the list by manufacturer
- b. Select devices to compare
- c. View detailed specs for the selected devices on a second comparison screen
- d. Select a device to order
- e. Enter order details into a customized form, including an optional coupon image
- f. By default, have the approver set to the logged in user's manager
- g. Capture additional default properties, such as the date of the request
- h. Store device orders in a secure and scalable database
- i. Enable an admin to view all device orders
- j. Follow a customized procurement process to place purchase orders for devices
- k. Send an automated approval request email when the order is placed
- I. Allow the approver to approve or reject an order and add comments without leaving their email inbox
- m. View all sent and received approval requests on the web and mobile
- n. Notify the user via email when their order is approved or rejected

This document will walk through creating a PowerApps Canvas Studio basics to enable features (a) thru (d).

When you are done with this first portion of the lab, your app will look like this:

		Device Ordering	g App	Hello, Megan Bowen	<		Device Orderir	ng App	Hello, Megan Bowen
Microsoft	Surface RT	Surface RT	Surface Pro	Surface Pro	Aspire M	Surface Pro	Series 7	IdeaPad Z	
lenovo	\$499.00	\$599.00	\$899.99	\$999.00	\$699.99	\$999.00	\$1,099.00	\$899.00	
SAMSUNG	Compare	Compare	Compare	Compare	Acer 6GB DDR3 500GB	Microsoft 4GB RAM 128GB	Samsung 6GB DDR3 1TB	Lenovo 4GB DDR3 1TB	
SONY					Intel Core i5-3317U (1.7 GHz)	Quad-core NVIDIA Tegra	Intel Core i5-3470T (2.90 GHz)	Intel Core i7- (2.5 GHz)	
TOSHIBA					Ultrabook	Tablet	All in one	Ultrabook	
			Clear selection	Compare 4 item(s)	4			•	

9

Locale-specific difference in formulas

Before you begin, please note that if your computer has its regional settings set to use the comma ',' for its decimal separator (like in much of Europe) your formulas will need to use a semicolon ';' instead of a comma in your formulas. For example:

- En-US Filter(Machines, OEMsGallery.Selected.MFR=MFR)
- de-DE Filter(Machines; OEMsGallery.Selected.MFR=MFR)

These localized formats are indicated with the \mathbf{Y} symbol throughout the document. If you are in the en-us locale, you can ignore any of the formulas indicated by the locale symbol.

Exercise 1: Create the app in PowerApps

IMPORTANT: Do not proceed ahead, before going through the Lab pre-requisite steps

Task 1: Sign-in to PowerApps web studio

1. Go to <u>http://powerapps.microsoft.com</u> and click Sign-in. You may also directly navigate to <u>http://web.powerapps.com</u>.

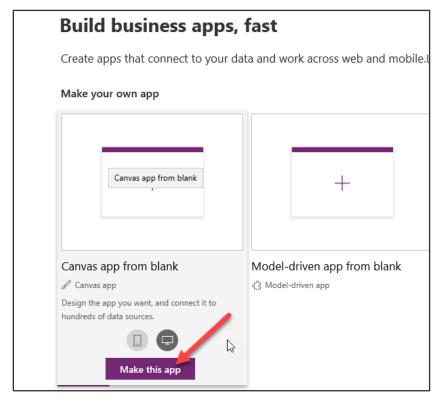


- 2. Sign in with your business or school account if you have not already done so.
- 3. Before creating an app, let's switch to the new environment that you created. Click the Environment dropdown in the top right of the screen to switch to the new environment. (If your environment doesn't show up, try logging out and logging in again)

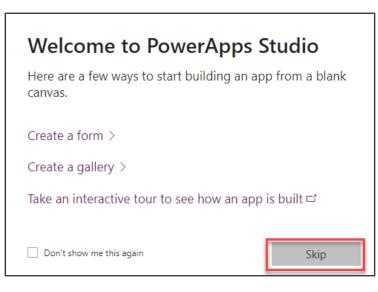
Environment Contoso (default)	
 Contoso (default)	
 Contoso Test	

Task 2: Create a new application

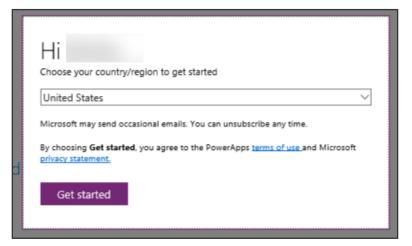
1. In the Home hover over the Canvas App from Blank, select Tablet Form Factor, and click Make this App.



2. Click **Skip** on the welcome prompt.



3. If prompted, select your region, then click **Get started**.



Task 3: Rename the screen

In this task, you will rename Screen1 to MainScreen

- 1. Select the screen by clicking the Screen1 tile in the left navigation bar.
- 2. Click "..." next to Screen 1 (or right click Screen1) and select the Rename option.

III PowerApps ~					
File Home Insert View	Action Screen				
🗔 New screen 🗸 🗛 Theme	×	~ B ~	/ <u>∪</u> ∞e A∨	🗮 v 🖓 Fill v	🖫 Reorder 🗸 📔
Fill	~ =	<i>f</i> x RGBA(255, 255	5, 255, 1)		
Screens 🗄 🗄					
	uplicate screen				

3. Change the name to MainScreen

File Home Insert View Action S	
□ New screen ∨ Aa Theme ∨	✓ B ✓ / U ↔ A ✓ E ✓ A Fill ✓ E Border ✓
Fill	$\sim = \int f^x = RGBA(255, 255, 255, 1)$
Screens 📜 🔠	

Note: You can also rename the screen by clicking on the screen name in the right pane and selected the edit icon.

Tip: It is a good practice to rename screens and controls as you create them, so they are easier to locate as you work with formulas that reference different controls. In this lab, you will be prompted to rename screens and some of the controls. For the others, you may rename them as you please on your own.

Task 4: Add a header containing the app name and logged in user's name

1. Select the **Insert** tab in the ribbon and select **Label** to add a text label.

🖬 Media 🗸

2. Rename the label from Label1 to **HeaderLabel**, see the previous task on renaming controls.

File Home Insert View	Action Label
🛄 New screen 🗸 🖉 Label	💀 Button 🔤 Text 🗸 😤 Controls 🗸 🔡 Gallery 🗸 🆽 Data table 🖶 Forms 🗸 🖾 Media 🗸 🔟 Char
Text	\sim = fx "Text"
Screens 🗄 🗄	
,∽ Search	
MainScreen	Grext Great
Ş	

3. Select **Text** from the property drop-down list and enter **"Device Ordering App"** in the formula bar. You can also type directly in the label.

Here PowerApps ~	
↓ File Home Insert View Action	Label
🗔 New screen 🗸 🖉 Label 🕞	Button 🔤 Text 🗸 😇 Controls 🗸 🔡 Gallery 🗸 🆽 Data table 🐺 Forms 🗸 🖾 Media 🗸 🔟 Char
Text	<pre>> = fx "Device Ordering App"</pre>
Screens 📜 🔠	
,○ Search	
▲	Device Ordering 2
🖉 HeaderLabel	<u>дар</u>

4. Resize the label such that the width is the width of the screen and the height is a reasonable size for a header. You can resize the label by either dragging the corners of the label or adjusting the size in the Right Pane.

	HeaderLabel		0
OOOOOO	Properties	마다 Rules	$f\!x$ Advanced
0	Text	Device Or	rdering App
	Auto height		Off 💽
	Line height		1.2
	Overflow	Hidden	\sim
	Tooltip	No value	
	Position	0	0
	Size	1366 Width	80 Height

5. Select the **Home** tab and set the **Align** option in the ribbon to **Center**.

File Home Insert View Actio	on Label					
🖵 New screen 🗸 🛔 Theme 🗸	Open Sans V	13 ~ B~ /	U abe	<u>A</u> ~	≣~ 🕅 Fill ~	Border 🗸 🥲 Reorder 🗸 🖹 Align 🗸 🖄
Align	\sim = f^x	Center			≣ Left	
creens 📜 🔠	0				≣ Center	
> Search	Å			-	 Right Justify 	Ordering App
🖉 HeaderLabel					Justity	

6. Change the **Fill** to blue and the font **Color** to white.

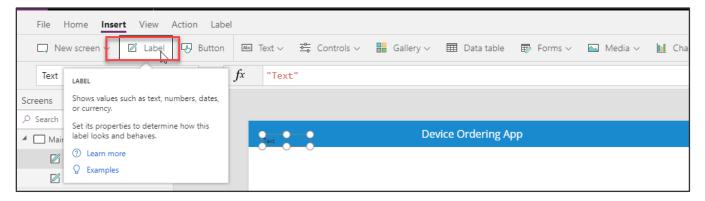
File Home Insert View	Action Label		
□ New screen ∨ Aa Theme	✓ Open Sans ✓ 13 ✓ B ✓	/ U 🛶 🗛 🚽 🖉 Fill ∨ 📰 Ba	order 🗸 🖫 Reorder 🗸 🖹 Align
Fill	\sim = f^x RGBA(0, 134, 208, 1)		
creens 📑 🖽			
Search	•	•	
MainScreen	· · · · · · · · · · · · · · · · · · ·	Device Ordering App	
🖉 HeaderLabel			Ŭ

7. Change the Font Size to 24.

File Home Insert View	Action Label								
□ New screen ∨ 🚑 Theme	✓ Open Sans	~ 24	∽ B~ /	\bigcup abe	$A_{\!$	🖄 Fill 🗸	📰 Border 🗸	Reorder ~	呂 Align
Size	\sim = f^x	24							
creens 🗧 🖽									
D Search	<u> </u>				0			0	
MainScreen	2			Device C	ordering App				
🖉 HeaderLabel	Ú				0			Ŭ	

Tip: You can also use the formula bar above or the Advanced tab on the far right of the screen to enter specific values or formulas for any property on a control.

8. From the Insert tab, select Label. We are going to use this label to display the logged in user's name.



9. Drag the label to the far-right side of the screen as shown and center the label vertically to be in line with the header text. You can use the purple alignment markers as shown below.

Device Ordering App	

- 10. Rename the label to UserLabel.
- 11. Change the value of the Text field to: "Hello, " & User().FullName

						-	
Text	~	=	$f^{x} \sim$	"Hello, " & User().FullName			
Screens	*⊒ 88						
,∽ Search							
🖌 🔲 ManiScreen							
T Label2				Devic	e Ordering	Арр	Hello, Hussan

Note: All functions in PowerApps are case sensitive. As you start typing "User" you will see a drop-down of available choices. It is a good idea to pick from the autocomplete options. You will also notice help text at the top showing the required parameters, in this case, it requires no input parameters.

- 12. Right-justify the text in the label by selecting the **Align** option in the **Home** tab on the ribbon.
- 13. If necessary, widen the label, so the text doesn't wrap.
- 14. Change the **PaddingRight** property from 5 to 20. You can do this quickly using the Properties pane on the right side.



Note: The **User()** function in PowerApps allows you to retrieve the Email, Full Name, and Picture for the currently logged in user. App users will always be logged in with their business or school account (Azure Active Directory (AAD) credentials), so this information will always be available for any PowerApps app.

Task 5: Save the Application

In this task, you will save an initial version of the app. It is a good practice to keep saving app updates at regular intervals.

1. Click File.

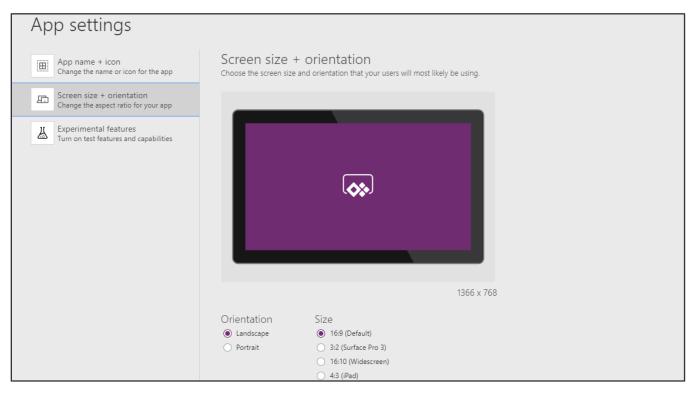
Here PowerApps v		
File Home Insert View A	tion Label	
New screen V 🗛 Theme	$\begin{tabular}{ c c c c c } \hline $Open Sans $$ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $	Bord
Align	\sim = fx Right	
Screens [™] Ξ ⊞		
,∽ Search		
A MainScreen	Device Ordering App	

In the application settings page, you can:

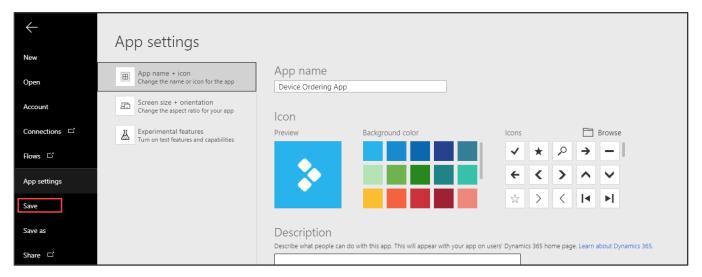
- Give your app a name, such as "Device Ordering App"
- Customize the app icon choose a background color and symbol

\leftarrow	App settings							
New								
Open	App name + icon Change the name or icon for the app	App name Device Ordering App						
Account	Screen size + orientation Change the aspect ratio for your app	lcon						
Connections	Experimental features Turn on test features and capabilities	Preview	Background color	I	cons		Browse	
Flows □	rum on test reatores and capabilities				✓ ★	ρ	→ -	
App settings					← <	>	~ ~	
Save					☆ >	<	∢ ▶	
Save as		Description						
Share □'		Describe what people can do	with this app. This will appear with	your app on users' E	Dynamics 365 h	ome page.	Learn about Dynamic	is 365.

2. Select the Screen Size + Orientation tab to view the available screen orientation and aspect ratio settings. For this app, we will leave it at the default setting of Landscape with 16:9 aspect ratio.



3. Select the App Name + Icon tab, name your application Device Ordering App and click Save in the left navigation.



4. Select **The cloud** and click **Save**.

Save as			
The cloud Save to PowerApps	Device Ordering App]	
This computer Save a copy to my computer	This app will be saved in the environment Contoso Test (org5defeaad).		
	My apps		Jt C
			Save

5. After the app is saved, click the back arrow in the top left to get back to the studio.

	PowerApps	×					
New		Save 🔉					
Oper	1	Device Ordering App Environment: Contoso Test					
Acco	unt	Saved: 4/3/2018, 12:05:33 PM					
Conr	nections ⊏	All changes are saved.					
Flows	s C	Share this app See all versions					
App	settings						

Tip: In PowerApps when you save a version of your app the first version is published by default and available to everyone you share the app with. Subsequent saves are only visible to the app maker in the studio. You must explicitly publish it for all app users to get the update. For more details on saving, publishing and sharing apps, see:

https://powerapps.microsoft.com/tutorials/save-publish-app/

https://powerapps.microsoft.com/tutorials/share-app/.

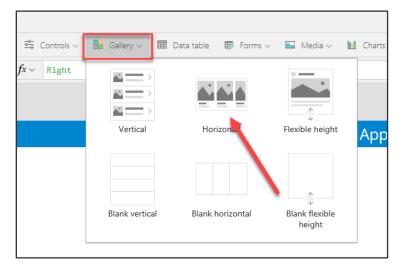
https://powerapps.microsoft.com/blog/saveandpublish/.

Exercise 2: Add Device Gallery and Connect to Data Source

In this exercise, you will add a gallery of all available devices making it easy for users to browse the list and get a quick overview of the devices available.

Task 1: Add device gallery

1. Select the Insert tab and click Gallery and select Horizontal.



This will add a gallery called **Gallery1** onto the screen. Notice the control tree view on the left displays this gallery with three controls within it – two labels and an image. A data pane will pop up on the right.

File Home Insert View Action	n Gallery			Device C	Drdering App り	C Þ	^, ?
🗔 New screen 🗸 🛛 Label 🗔	Button 🔤 Text 🗸 🤹 Controls 🗸 📑	Gallery – 🖽 Data table 🖶 Forms	Media V III Charts V	♦♥ +Ø Icons ∨			
Items ~	= fx CustomGallerySample						~
Screens "⊟ ⊞			Data Data source	\times	GALLERY Gallery1		0
MainScreen Gallery1	· · · · · · · · · · · · · · · · · · ·	Device Ordering App	CustomGallerySample Sample data	~	Properties	PT Rules	<i>fx</i> Advanced
Subtitle1					Data	Custom	nGallerySample
Title1			Layout		Layout	Tit	itle and subtitle
Label3			Title and subtitle	\sim	Wrap count		1
HeaderLabel	9				Template size		440
	Lorem ipsum 1	Lorem ipsum	Image1		Template padding		0
	Lorem ipsum dolor sit amet,	Suspendisse er	SampleImage	\sim			
			Subtitle1		Position	40 ×	40 Y

2. In the data pane, click the **Data source** drop-down and select + **Add a data source**.

Data Data source	×	GALLERY Gallery I
CustomGallerySample Sample data	~	Properties R
Add a data source		Data Fields
Title and subtitle	\sim	Layout
		Visible

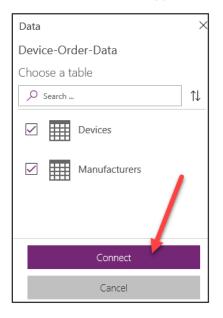
3. Select the "Add static data to your app (Import from Excel)" option.

Data		×	GALLERY Gallery1	
	+ New connection		Properties	ہם Rul
	Add static data to your Import from Excel	Data		
			Fields	
			Lavout	

4. In the File Open dialog, browse to the location where you unzipped the data file (for example C:\AIAD\PAHandsOnLabContent\) and select **Device-Order-Data.xlsx** to load it.

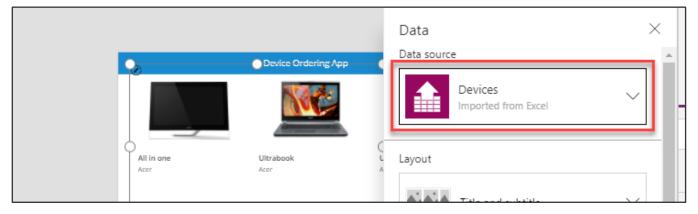
Na	ime ^	Date modified	Туре	Size	
×	Device-Order-Data.xlsx	3/2/2018 2:11 PM	Microsoft Excel W	33 K	В
					•
ime:	Device-Order-Data.xlsx			~	Microsoft "xcel Worksheet 🛛 🗸
					Open 🚽 Cancel

5. Select both tables, **Devices** and **Manufacturers**, and click the **Connect** button. This will add both these tables as static data into the application.



Note: In this lab, you will work with tables imported from a static data file and embedded as resources in the app. If you were building a real solution, the same tables would likely be stored in the cloud, such as in a SharePoint list, a SQL table, or a Common Data Service entity.

6. Select the data source for this gallery – **Devices**. Notice the gallery will get populated with data.



7. Close the Data pane by clicking the X in the top right of the pane.

	Device Ordering App	Data Data source	
		Devices Imported from Excel	~
All in one Acer	e Ultrabook Acer	Layout	

8. Rename the Gallery1 to **DeviceGallery**.

Power platform App in a Day

Screens	•≡		
,∕⊂ Search			
🖌 🔲 ManiScreen			
DeviceGallery			_
T Subtitle2			
T Title2			U S
Image2			

Tips on working with galleries:

Galleries provide a powerful way to visualize tabular data in PowerApps. It is important to become familiar with customizing a gallery. Key components of a gallery: the gallery control, the template cell (first cell), and controls within the template cell.

To select the **entire gallery** – click on the gallery in the tree view on the left or click on the second or third cell. Clicking any cell that is not the first cell of the gallery will select the entire gallery. Now you can specify properties that apply to the entire gallery, such as the Items property which is the data source, the gallery fill color, borders, etc.

To customize how each item is displayed in the gallery, you will customize the template cell. Select the template by

clicking in the first cell of the gallery or click on the pencil icon \bigcirc in the top left corner when the entire gallery is selected.

You can now add, remove and customize the controls within the template cell. These changes will then repeat across each item or row in the table.

Go ahead and select the device image in the template cell and change its size. Notice how the size of the image changes in all the cells.

You can also test your gallery right on the canvas by holding down the Alt key to activate.

You will customize the device gallery in subsequent steps.

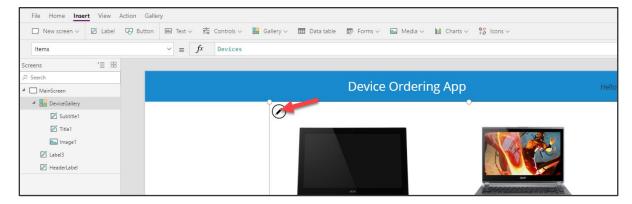
For now, your gallery should look something like the image above. Don't worry about making it pixel perfect, the purpose of this exercise is to get your app working with a good enough UX.

Task 2: Arrange the device gallery

1. Resize and reposition the gallery.



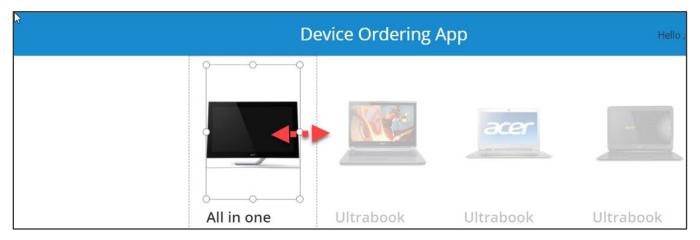
2. Select the DeviceGallery and click the Edit (pencil) icon in the top left to edit the template cell.



3. Using the right drag control, **resize the first box to be narrower**. Notice that all the items get narrower and more devices are visible on the screen.



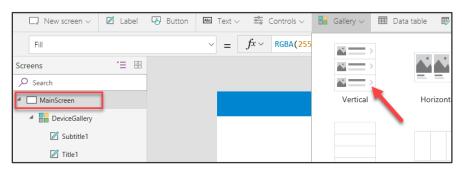
4. Narrow the image as well by **clicking on the image control and resizing it using the drag handles**. Make sure the width of the image control is positioned within the template.



Task 3: Add gallery to show manufacturers

In this task, you will add a second gallery that will list the various device manufacturers. This will be a single column vertical gallery down the left side of the screen, with each cell displaying the manufacturer's logo image. This gallery will later be used as a filter for the device gallery created above.

- 1. Select the **MainScreen**.
- 2. Select the **Insert** tab on the ribbon and open the **Gallery** drop-down, then select **Vertical**.



3. Rename the gallery to **ManufacturerGallery**.

Screens 📜 🖽
✓ Search
A MainScreen
ManufacturerGallery
DeviceGallery
🗹 Subtitle1
🗹 Title1

4. Close the Data pane.

Data Data sourc	e	×
	CustomGallerySample Sample data	~
Layout		
	Image, title, and subtitle	\sim

5. Move this new gallery so that it is left aligned with the left edge of the screen and top aligned with the top of the device gallery. Your two galleries should like the image below.

• Lorem		L	•		
Lorem Suspendis			acer	-	
Lorem	All in one Acer	Ultrabook Acer	Ultrabook Acer	Ultrabook Acer	Ultrabook Acer
Lorem Vestibulu			0		

6. Select **ManufacturerGallery** (not just the template cell), in the Properties tab on the right, select **Layout** or **Data**.

					GALLERY ManufacturerGa	llery	0
Lorem	Device Ordering App		Hello, Hassan B	lage	<u>→</u> Properties	다. Rules	fx Advanced
Lorem >		-		. A	Data	Custo	mGallerySample
Lorem Suspen Acer -	Acer - Acer -	Acer -	Acer -	A	Fields		Edit
All in one	Ultrabook Ultrabook	Ultrabook	Ultrabook	Τa	Layout	lmage, t	itle, and subtitle
Ut /					Visible		On 🌑

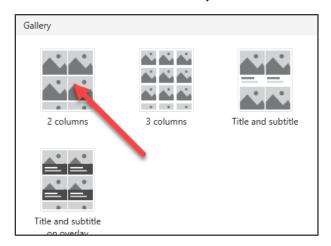
7. This will open a Data pane that allows you to configure the layout template and data source for the gallery.

		Data Data source	×
orem	Device Orde	CustomGallerySample Sample data	~
orem > Acer - All in one	Acer - Ultrabook	Layout	~
.orem		Image2 SampleImage	~

8. In the **Data** pane, select the **Layout** drop-down.

Data	×
Data source	
CustomGallerySample Sample data	\sim
Layout	
Image, title, and subtitle	Ň
Image2	
SampleImage	\sim

9. Scroll down and select the layout called "2 columns" with just images and no text.



- 10. Close the data pane.
- 11. Click the **Properties** tab in the right pane and change the **Wrap count** from 2 to 1. This will change it to a single column gallery.

	GALLERY ManufacturerGalle	ry	0
	Properties	마급 Rules	fx Advanced
	Data	CustomG	allerySample
	Fields		Edit
	Layout		2 columns
Acer -	Visible		On 🌑
	Position	0	54
	Color		<u> </u>
	Border	— ~ O	
	Wrap count		1

12. Select the **image control** within the gallery (the Edit Pencil icon) and **reduce its height** by dragging the middle bottom drag control upwards. The image size will reduce whereas the template size will still be expanded.



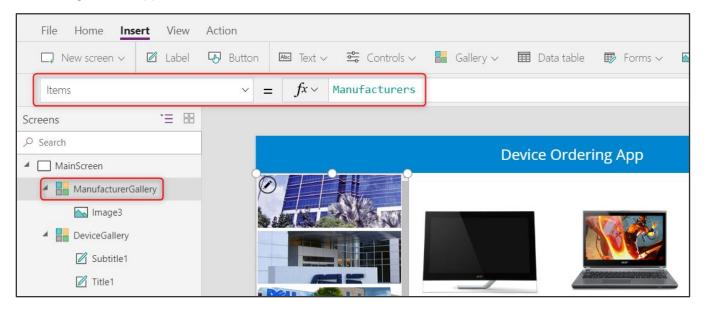
13. Reduce **the height of the template cell** to match the image below. We essentially want the image to occupy the entire cell.



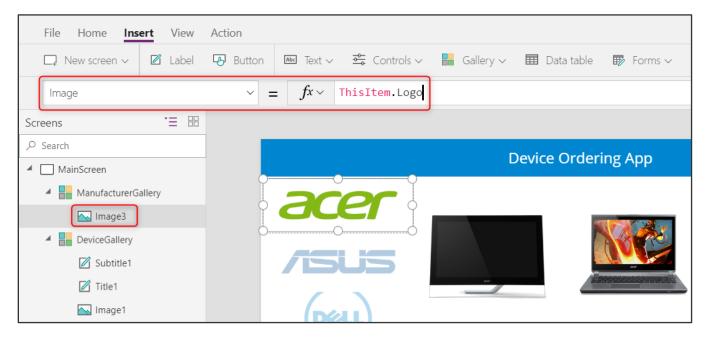
Task 4: Connect ManufacturerGallery to manufacturers table

Earlier you connected the data source using the Data tab in the right pane. You can also connect to data via the formula bar.

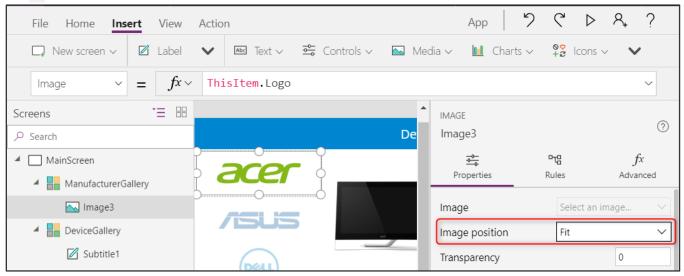
- 1. Select the **ManufacturerGallery**. Make sure the whole gallery is selected and not just the first cell.
- 2. Select **Items** from the property drop-down next to the formula bar and type Manufacturers in the formula bar. Notice that the gallery gets populated with images of buildings. This is because PowerApps picked a default binding which mapped to the HQ column in the table.



3. Select the image control in the first template cell in the gallery and change the value of **Image** in the formula bar from **ThisItem.HQ** to **ThisItem.Logo**. All the gallery items will now display logo images. You can also use the left tree view to select the controls, sometimes that is easier!



 Select the first (top-most) image and using the Properties pane on the right, set the Image position property to Fit.



5. Reduce the height of the template cell such that all nine manufacturers fit without a scrollbar. To do this, use the drag handles to first reduce the height of the image and subsequently reduce the height of the template cell. Note again that to select the template cell, select the entire gallery and click on the pencil icon in the top left.

		Device Orde	ering App		
acer					
			acer	are a second sec	V
Microsoft	All in one	Ultrabook	Ultrabook	Ultrabook	ι
lenovo	Acer	Acer	Acer	Acer	A
SAMSUNG					
SONY					
TOSHIBA					

Task 5: Highlight the selected item in the gallery

In this task, you will use the **TemplateFill** property of the manufacturer gallery to specify a highlight color for the selected item

1. With the whole gallery selected, set the **TemplateFill** property to:

If(ThisItem.IsSelected,ColorFade(HeaderLabel.Fill,75%)) This is conditionally setting a Fill color if the cell is selected

🗋 New screen 🗸	🗹 Label	Button	🌬 Text 🗸	ë⇔ Controls ∨	Gallery 🗸	🖽 Data table	Forms 🗸	🔛 Media 🗸
TemplateFill			~ =	$fx \vee$ If(This	Item.IsSelecte	ed,ColorFade(H	eaderLabel.F	ill, <mark>75%))</mark>
Screens	·= 88							
✓ Search								
A MainScreen							Devid	e Ordei
A 🔚 ManufacturerGa	allery							
📉 Image3			4	cer				
DeviceGallery							2	
🗹 Subtitle1							<u>100</u>	acer

You could have set a specific color or RGB value, but we recommend using the ColorFade function, so it matches the header label with a 75% fade. If you change the fill color of header label, this template fill color will automatically change.

2. Now try using the preview mode to perform a quick test of this highlighting. You can enable preview mode by holding down the Alt key (also known as the Option key) and clicking a few different manufacturers in the gallery, notice the selected item is highlighted in a light blue color. The preview mode ends when you stop holding the key.

Alternatively, you could click the Play button to enter preview mode, and to exit this you would hit the X in the upper right corner or use the Esc key.

Task 6: Filter the devices based on selected manufacturer

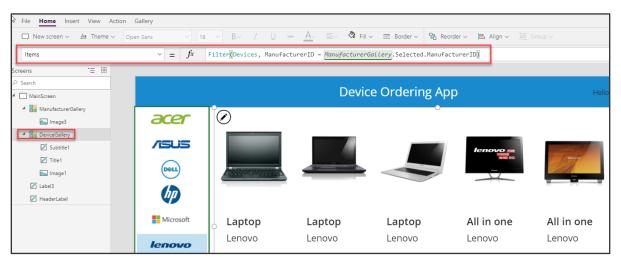
In this task, you will use the Filter() function to filter the items in the **DeviceGallery** to only display devices that match the selected item in the **ManufacturerGallery**.

 Select the **DeviceGallery**. With the **Items** property selected, enter the following expression in the formula bar: Filter(Devices, ManufacturerID = ManufacturerGallery.Selected.ManufacturerID)

P for alternate/European locales:

Filter(Devices; ManufacturerID = ManufacturerGallery.Selected.ManufacturerID)

This will filter the device gallery to only display items that match the selected manufacturer based on ManufacturerID.



 Select a different item in the manufacturer gallery on the left, and you will notice the device gallery will update accordingly. Note: In some cases, the first few items won't show the selection, try selecting the 5th or 6th item if that occurs.

	Device Ordering App Hello, Hassan P					
			acer			
Microsoft	All in one	Ultrabook	Ultrabook	Ultrabook	Ultrabook	Tablet
lenovo	Acer	Acer	Acer	Acer	Acer	Acer

Note: If you get an error when entering the Filter command, check the name of the manufacturer gallery. The name in the filter command must match the name of your gallery.

More details on the Filter() function is available at <u>https://powerapps.microsoft.com/tutorials/function-filter-lookup/</u>.

A complete set of expressions is available at <u>https://powerapps.microsoft.com/tutorials/formula-reference/</u>.

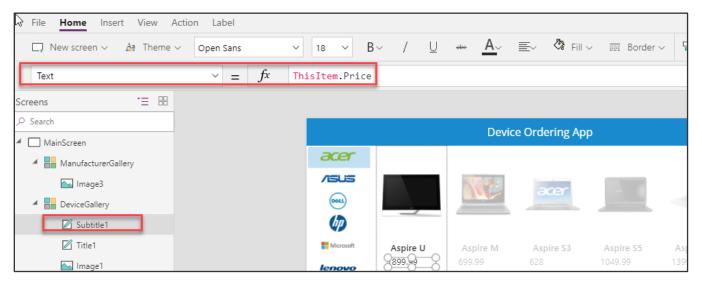
Task 7: Configure text labels in the device gallery

- 1. Select the top label in the first item in the DeviceGallery. It is named Title1 in the left side control navigation. It may have the default value set to the DeviceType property (e.g. Tablet).
- 2. Change the label to display the device name by setting the label's **Text** property to: ThisItem.Title

File Home Insert View Action	Label					
□ New screen ∨ 👌 Theme ∨ Op	en Sans 🗸 20	\sim B \sim / U also	▲ ▲ Fill ~	📰 Border 🗸 📮 Reor	der ~ 🖹 Align ~ 🕴	₫ Group ~
Text	\sim = f^x T	hisItem.Title				
Screens 📜 🔠			-			
, ○ Search			Davia		_	
MainScreen			Device	e Ordering Ap	0	
A 🔡 ManufacturerGallery						
Mage3	acer					
A B DeviceGallery						
Subtitle1	/isus		N/A Sector		A STREET	
🖉 Title1	\bigcirc			acer		
Image1	Dell		Innoneconnect	and the second s		_
🖉 Label3						-
HeaderLabel						
	Microsoft	Aspire U	Aspire M	Aspire S3	Aspire S5	As

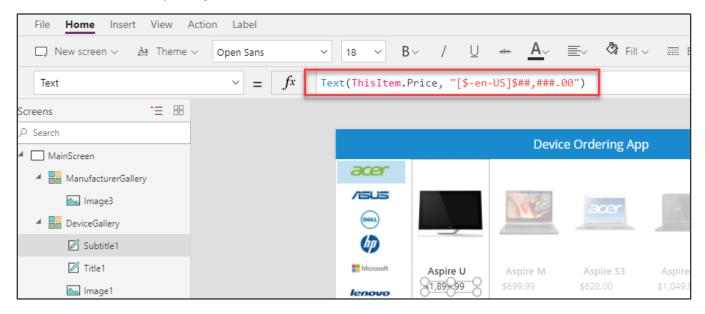
Here are some additional formatting suggestions. These are for cosmetic purposes only, feel free to skip past these:

- Expand the width of the label to the template width. Notice that the second label expands as well. This is because it is X property is set to Title1.X, the X coordinate position of the Title1 label. For more on the relative positioning of controls, see https://powerapps.microsoft.com/blog/ux-patterns-control-positioning/
- Change the **PaddingLeft** from 0 to 10.
- Change the font to **Segoe UI**.
- 3. Select the second label.
- 4. In the property drop-down list, select the **Text** field and change it from ThisItem.ManufacturerName to ThisItem.Price.



5. To add the \$, use the text format expression: Text(ThisItem.Price,"\$##,###.00") or for alternate/European Text(Price;"\$##.###,00") locales:

Note: After you enter the above value in the formula bar, it will automatically resolve to include your locale, e.g. [\$-en-US]. If you see an error here, it might be because your locale is not yet supported, in which case as a workaround, manually change it to [\$-en-US]:



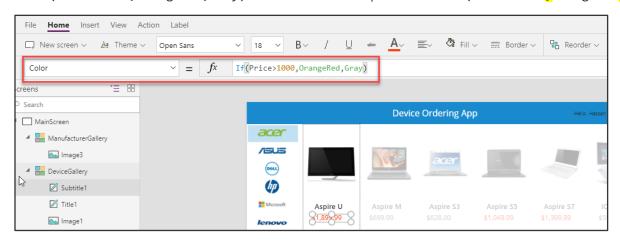
Optional UI enhancement:

- Like above, change the value of the **PaddingLeft** property of the SubTitle1 label from **0 to 10**. Or set it to Title1.<u>PaddingLeft</u>.
- Change font to **Segoe UI**.

Task 8: Conditional formation to highlight devices above \$1,000

We can make it easy to spot devices that cost more than \$1,000, by displaying the price in Red.

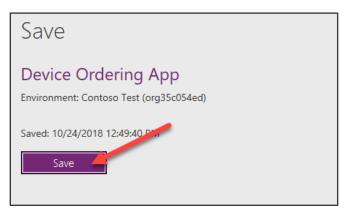
 Select the label in the template cell that displays the price and set the Color to If(Price>1000,OrangeRed,Gray) or for alternate/European locales: If(Price>1000;OrangeRed;Gray)



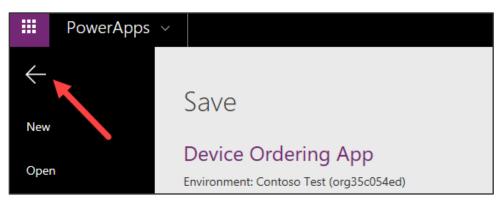
Note: As you are typing this formula notice that the autosuggest shows a choice of matching colors. PowerApps comes with a set of standard colors that you can easily reference in any property that accepts a color value. You can also set specific RGB values.

For a full list of Color functions and colors, see <u>https://powerapps.microsoft.com/tutorials/function-colors/</u>

2. Click File and select Save.



3. Click the back arrow.



Task 9: Add a checkbox to add a device to Compare list

We want to allow users to select multiple devices to compare before making a final selection on the next screen.

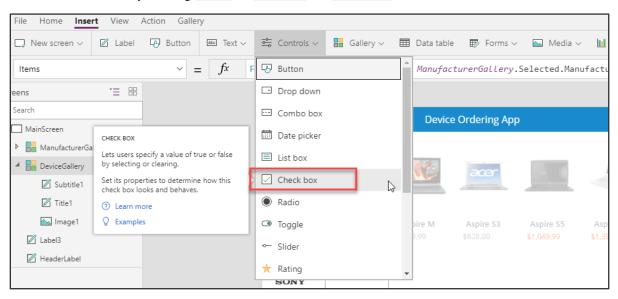
1. Select the device gallery, click the Pencil edit icon in the top left of the gallery to select the template cell.



2. Make sure that only the first item in the gallery is selected (not the entire gallery).



3. Add a checkbox by clicking Insert -> Controls -> Checkbox.



4. Move the inserted checkbox below the price.

		Nor	acer		
Microsoft	Aspire U	Aspire M	Aspire S3	Aspire S5	
lenovo	\$1,899.99	\$699.99	\$628.00	\$1,049.99	
SAMSUNG	Option	Option	Option	Option	

5. Change the checkbox text to **"Compare"**. You can do this by setting the **Text** property or clicking within the text of the control and typing directly into the control.

File Home Insert View	Action Check box					
🖵 New screen 🗸 🖉 Label	Button 🔤 Text 🗸	Controls ∨	Gallery 🗸	🖽 Data table	🗊 Forms	~ 🖂 N
Text	\sim = f^x	"Compare"				
Screens 📜 🗄						
ρ Search				Device	Ordering Ap	р
MainScreen		acer				
DeviceGallery		/ISUS		No.40	acer	
Checkbox1		Beall			ader	
Subtitle1	Ş	(p)				
Title1		Microsoft	Aspire U \$1,899.99	Aspire M \$699.99	Aspire S3 \$628.00	Aspire \$1,049.9
Label3			Compare	Compare	Compare	Compa

Task 10: Create a collection for the selected devices

When a user selects a device to compare, we will add it to a collection called CompareList. You can think of this as an inmemory collection of devices that have been selected for comparison.

Select the Checkbox control and click on the Action tab in the ribbon, click OnCheck and set the value in the formula bar to: Collect(CompareList, ThisItem)

File Home Insert View Action Provide the Action Provided Home Insert View Action Provided Home Action Provided	Check box X Remove ~	elec <mark>t</mark> 🗸 On	check 🗌 On	uncheck of a	Flows			
OnCheck	$\sim = \int fx Co$	llect(Compan	reList,ThisIte	m)				
reens 📜 🗄								
Search				Devic	e Ordering Ap	מו	Helio	, Hassan Rage
MainScreen								
ManufacturerGallery		acer		8 8 8 8				
A B DeviceGallery		/ISUS		Note:	acer	1000		
Checkbox1		Deel			aller			-
🗹 Subtitle1		(hp						-
🗹 Title1		Microsoft	Aspire U	Aspire M	Aspire S3	Aspire S5	Aspire S7	ICONI/
📉 Image1		lenovo	\$1,899.99	\$699.99		\$1,049.99	\$1,399.99	
🗹 Label3		SAMSUNG	Compare	Compare	Compare	Compare	Compare	

2. Set the **OnUncheck** value to: Remove(CompareList, ThisItem)

(OnUncheck	- =	=	f^{x} ~	Remove(CompareList, ThisItem)

3. Set the **Default** property of the checkbox to: ThisItem in CompareList

🔓 File Home Insert View 🗛	ction Check box							
	× Remove v 🕞 C	Dn select 🔽 Or	n check 🗌 On	uncheck of	Flows			
Default	$\sim = fx$	ThisItem in Co	ompareList					
Screens 📜 🖽								
,∽ Search				Dovie	ce Ordering A	22	11-11-) . Hassan Rage
✓				Devic	Le Ordening Ap	νh	Heid), massan kage
ManufacturerGallery		acer						
A DeviceGallery		/isus		States	(Contraction of the local sector)	1000		-
Checkbox1		0001			acer			- Sum
Subtitle1		(hp						and the second s
🖉 Title1		Microsoft	Aspire U	Aspire M	Aspire S3	Aspire S5	Aspire S7	ICON
📉 Image1		lenovo	\$1,899.99	\$699.99		\$1,049.99	\$1,399.99	\$599.9
🖉 Label3		SAMSUNG	Compare	Compare	Compare	Compare	Compare	

The **Default** setting of the checkbox is a Boolean true or false value that determines if the checkbox should be checked or not by default. Setting it to this formula will ensure that the checkbox is checked by default if the item has already been added to the collection since the result will be true, i.e. this item *is* in CompareList.

4. Let's test out adding items to a collection by running the app in Preview (F5) or by clicking the Preview button on the top right. Click on the checkboxes of three devices.

xer 0	0				
		acer	-		1-11
Microsoft Aspire U	Aspire M	Aspire 53	Aspire S5	Aspire S7	
51.899.99	\$699.99	\$628.00	\$1,049.99	\$1,399.99	\$599.99

- 5. Close the preview.
- 6. Click the **View** tab and select **Collections**.

	File Home	Insert	View	Action			
	🔋 Data sourc	ces 🗟	Media	ः≣ Collections	ton Var	riables	💁 Advance
	Fill			1	~ =	f_{x} ~	RGBA(255,
Scr	eens		`⊒ ==				
Q	Search						
A	MainScreen						

7. You will see the **CompareList** collection and the three items you selected.

CompareList							
Here's a preview of the first 5 items in this collection Learn about working with collections							
Device Name	DeviceID	DeviceType	Manufacture				
Acer - Aspire U	1	All in one	1				
Acer - Aspire M	2	Ultrabook	1				
Acer - Aspire S3	3	Ultrabook	1				

8. Click the back arrow on the top left to get back to the main view.

	PowerApps	*		
← , New	_	Сс	ollections	
Oper	ı	-8	CompareList	CompareList
				Horo's a proviow of th

Note that each item in the collection has all the information for each machine that we get from the **Machines** data source, not just the fields we display in the Devices Gallery.

For more information on working with Collections in PowerApps, see:

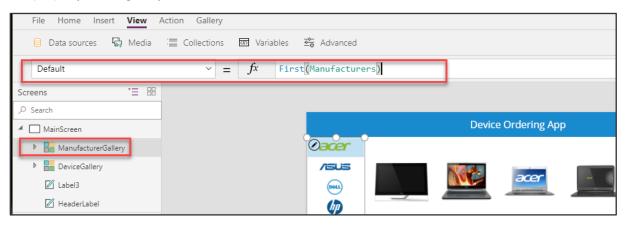
https://powerapps.microsoft.com/tutorials/create-update-collection/ and

https://powerapps.microsoft.com/tutorials/function-clear-collect-clearcollect

Task 11: Set the default selection to the first manufacturer and test the app

To avoid getting a blank list of devices when the app starts, set the default selected item in the Manufacturer gallery to be the first item.

1. Select the **entire gallery** (by clicking ManufacturerGallery in the tree view on the left) and set the **Default** property of the gallery in the formula bar to: First(Manufacturers)



This will set it to the first item in the table.

- 2. To preview the app, press the Preview button on the upper right of the top menu. Pressing the F5 key will also preview the application. **Note**: You can also test your app right on the canvas by holding down the Alt key to activate buttons and other controls, as well as double-clicking to type into controls.
- 3. Your app should look like the image below.

	Hello ,	Hassan Rage					
acer							
		Me	acer				
Microsoft	Aspire \$1,899.99	Aspire \$699.99	Aspire \$628.00	Aspire \$1,049.99	Aspire \$1,399.99	ICONIA \$599.99	ICON \$999.9
SAMSUNG	Compare	Compare	Compare	Compare	Compare	Compare	Com
SONY							
TOSHIBA							

Power platform App in a Day

4. To exit preview mode, click the X in the top right corner.



5. Save the application.

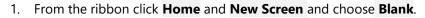
Exercise 3: Add Second Screen

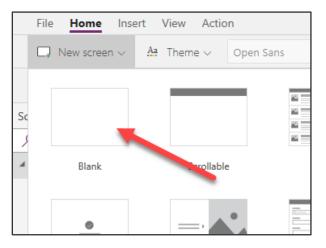
The second screen is where users compare the selected devices and then choose the one they wish to submit for approval. This screen will include:

- A back button for navigation back to the main screen.
- A list of selected devices for comparison (carried over from the main screen).
- Additional details for each device.
- Highlighting the selected device

In a subsequent lab, you will create the database entities to store the device orders and add an edit form to this screen to enter additional information and submit the request.

Task 1: Add screen





2. Rename the screen to **CompareScreen**.



3. In the left tree view, click on **MainScreen**, click on the **Insert** tab on the ribbon and select **Button** to add a button to the screen.

File Home Inse	rt View Action		
\Box New screen \sim	🗹 Label 🚯 Button 🔤 Text 🗸 😅 Controls 🗸		
Fill	BUTTON $fx \sim RGBA(255,$		
Screens	Lets users click or tap to perform an action.		
✓ Search	Set its properties to determine how this		
MainScreen	button looks and behaves.		
	② Learn more		

4. Place the button in the bottom right corner.

Compare	Compare	Compare	Compare
			0
			Button

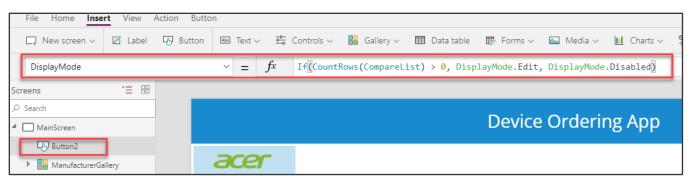
5. Set the button's **Text** property to: "Compare " & CountRows(CompareList) & " item(s)"

	Action Button	
Open File Menu Label	\bigcirc Button \blacksquare Text \lor	중 Controls ~ 🔡 Gallery ~ 🏛 Data table 🖽 Forms ~ 💽 Me
Text	\sim = f^x	<pre>"Compare " & CountRows(CompareList) & " item(s)"</pre>
Screens [*] ∃ ⊞		
,∽ Search		
MainScreen		Device Ordering App
Button2		acer

6. Resize the button, so the text fits.

🖌 Compare	Compare	Compare	Compare	Compare	Compare	Comp
					Compare	3 item(s) 🍳

 Select the button, and set its **DisplayMode** property to Disabled if there are no items in CompareList: If(CountRows(CompareList) > 0, DisplayMode.Edit, DisplayMode.Disabled)



8. Unselect all devices - notice the button is grayed.

		acer	-		
Aspire U \$1,899.99	Aspire M \$699.99	Aspire S3 \$628.00	Aspire S5	Aspire S7	ICONI \$599.99
\$1,899.99	\$699.99	\$628.00	\$1,049.99	\$1,399.99	\$599.99
4				Compare	0 item(s)

- 9. Select the **compare button** and **copy (Ctrl-C)** this button.
- 10. **Paste (Ctrl-V)** the button on the same screen.
- 11. Position it to the left of the compare button.

Power platform App in a Day

	Compare	Compare	Compare	Compare	Compare	Compar
l						
l						
l						
I						
ł		Compare 0 item(s)	<u> </u>		Compar	re 0 item(s)

- 12. Change the **Text** property to "Clear selection"
- 13. Set the **OnSelect** property for this button to: Clear(CompareList) This will remove all the items in the CompareList collection.

File Home Insert View Action	Button			
🖵 New screen 🗸 🖉 Label 🗔 Bi	utton 🔤 Text \lor $\overline{\underline{\bullet}}_{0}^{0-}$ (Controls 🗸 🚦 Gallery 🗸	📰 Data table	🗊 Forms 🗸 🔛 Mec
OnSelect	\sim = f^x	Clear(CompareList)		
Screens 📜 🗄				
, ○ Search				
✓				Device Ord
Button2_1				
Button2	acer			

14. Select the Compare button, click on the **Action** tab and select **Navigate.**

File Home Insert View A	tion Button	
✓ Navigate ~ := Collect ~	X Remove V GO on select / Flows	
Fill	✓ = fx HeaderLabel.Fill	
Screens 📜 🖽		
, P Search		
A 🔲 MainScreen	\mathbf{k}	Device Ordering App
Button2_1		
Button2	acer	
ManufacturerGallery		

15. Select **CompareScreen** from the drop-down and ScreenTransition.None for transition type.

	File Home Insert View Action	Button
	✓ Navigate ~ \(\equiv Collect \vee \vee Re\)	emove v 🖓 On select 🗗 Flows
-	Navigate	\sim = fx HeaderLabel.Fill
Sc	CompareScreen 🗸	
م •	ScreenTransition.None	De
-	եթյ Button2_1	2000
	Button2	acer

- 16. Click Preview.
- 17. Select a couple of devices and click the compare button and verify that it takes you to the second screen.

Aspire U	Aspire M	Aspire S3	Aspire S5	Aspire S7	ICONIA
\$1,899.99	\$699.99	\$628.00	\$1,049.99	\$1,399.99	\$599.99
Compare	Compare	Compare	Compare	Compare	Compar
	Clear selection			Compa	re 2 item(s)

18. You should navigate to the new empty screen. Close the preview.

×

19. Select the **MainScreen** in the left navigation bar and keep the Ctrl key pressed down while multi-selecting the blue header label and the "Hello, <user>" label. Once you have multi-selected the controls, type (Ctrl-C) to copy them to the clipboard.



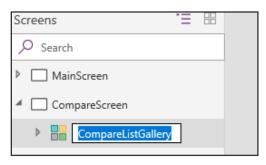
20. Go back the **CompareScreen** by clicking in the left navigation bar, and type (Ctrl-V) to paste the controls. You may need to move them up to align with the top of the screen.



- 21. Finally, copy the **DeviceGallery** from the MainScreen and paste a copy into to the newly created **CompareScreen**.
- 22. Move the gallery to the left edge of the screen. Align the top of the gallery to be just under the header banner. Use the right drag handle to reduce the width of the gallery and create space for a data entry form on the right of the screen. You will insert a Form control here and configure it in a subsequent lab.

		Device Ordering App	Hello,
\odot	0		
		acer	
Aspire U \$1,899.99	Aspire M \$699.99	Aspire S3	
Compare	✓ Compare	Compare	

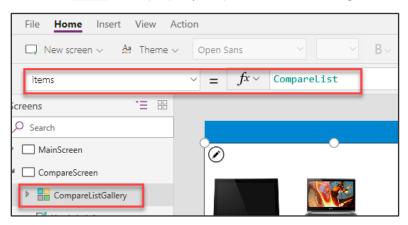
23. Rename this gallery to **CompareListGallery**.



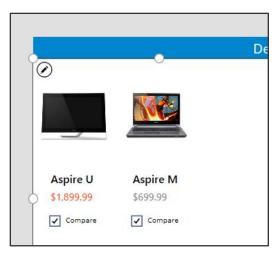
Task 2: Configure the gallery

In this task, you will configure the gallery to show devices that were selected from the comparison gallery on the MainScreen.

- 1. Select the new **CompareListGallery**.
- 2. Select **Items** in the property drop-down list and change the data source in the formula bar to CompareList.



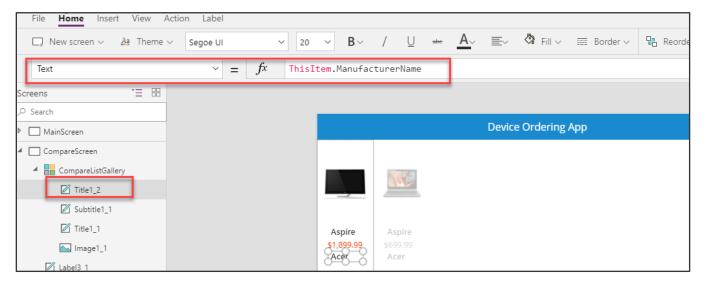
3. The gallery will now show the selected items from the MainScreen.



Task 3: Remove and add controls to the gallery

In the second screen we are selecting a given item to get approved, so we do not need a Compare checkbox.

- 1. Select the **Compare checkbox** on the left most template cell and press the Delete key to delete the checkbox.
- Now let's add a few labels to display additional attributes about the device. A good way to do this is to copy paste an existing label. Select the first label in the gallery that is displaying the device name. Copy it (Ctrl-C) and paste it (Ctrl-V).
- 3. Move the pasted label so that it is just below the price. Set the **Text** property to: ThisItem.ManufacturerName.



4. Use the ribbon to change the font weight from **Semibold** to **Normal** and Change the **Size** property from 20 to 18.

File Home Insert View	Action Label			
🗔 New screen 🗸 斗 Theme	✓ Segoe UI	~ 20 ~	B∽ / <u>U</u> ⇒	👐 🛕 🔤 🖄 Fill 🗸 🧮 Border 🗸 🖫 Red
FontWeight	~ =	fx Normal	B Bold	
Screens 🗄 🗄		_	B Semibold	
⊖ Search		_	B Normal	
MainScreen				Device Ordering App
CompareScreen			B Lighter	
CompareListGallery		_		
Z Title1_2				

5. Copy and paste this label and move the new fourth label below the third label. Set its **Text** property to: ThisItem.Memory

		me	inc •	-	eyve	01		1	0	ab	
Text				~	=	f_{x} ~	ThisItem.Memory				
eens	•=										

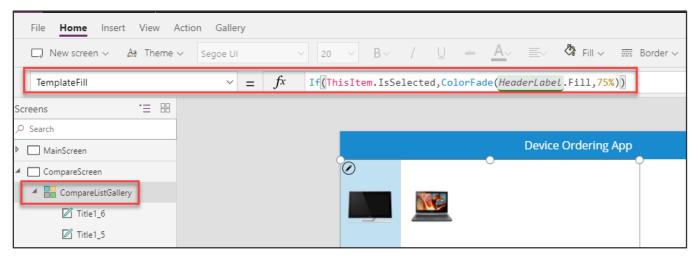
6. Repeat this and add text boxes to display the additional device properties – Processor, Storage, Screen Size, etc. Feel free to customize the labels by changing their Size, Color, Fill and FontWeight properties.

Note: For this lab, to save time you may add one or two of these additional properties and skip adding all the additional device properties.

Task 4: Highlight the selected device

Like the behavior in the manufacturer gallery in the first screen, use the **TemplateFill** property to specify a highlight color for the selected item.

- 1. Select the **CompareListGallery.**
- With the whole gallery selected, set the **TemplateFill** property to: If(ThisItem.IsSelected,ColorFade(HeaderLabel.Fill,75%), White)



This is conditionally setting a Fill color if the cell is selected.

You could have set a specific color or RGB value, but we recommend using the ColorFade function, so it matches the header label with a 75% fade. If you change the fill color of header label, this template fill color will automatically change.

3. Click a few different items in the gallery, notice the selected item is highlighted in a light blue color.

Task 5: Add an icon to navigate to the first screen

- 1. Select the **CompareScreen**.
- 2. Go to Insert, then Icons and select the Left icon. Position it in the upper left corner of the screen.

File Home Insert View A	ction Screen			Device Ordering App - Saved
🗔 New screen 🗸 🖉 Label	Button 🔤 1	Text 🗸 💆	🗧 Controls 🗸 🔠 Gallery 🗸 🥅 Data table 🛛 🐺 Forms 🗸 🔛 Media 🗸 🔟 Charts 🗸 👯	cons ~
Fill	~ =	fx RG	BA(255,255,255,1)	More
Screens 🗄 🗄				Waffle menu
Search MainScreen			Device Ordering App	Left
CompareScreen			> t	Right
CompareListGallery				Up
Title1.6				Down

3. Select the arrow control, change the **Color** property to **White**. You can change this in the formula bar or through the Properties pane on the right.

File Home Inse	t View	Action Icon						
\Box New screen \sim	🖉 Label	Button	As Text \sim	⊡o Controls ∨	Gallery 🗸	🖽 Data table	🗊 Forms 🗸	🔛 Media 🗸
Color		~	$= f^x$	White				
Screens	'∃ 88							
,∽ Search								
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4. Move the arrow to the top-left corner.

Device Ordering App

5. Set the **OnSelect** action for the icon to Back(). This will cause navigation back to the previous screen.

F	ile Home Inse	rt View A	Action Icon							
	🔉 New screen 🗸	🖉 Label	🕓 Button	Abc	Text \sim	⊡ Controls ∨	Gallery 🗸	📰 Data table	🗊 Forms 🗸	🔛 Medi
	OnSelect		~	=	fx	Back()				
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Optional UI enhancement:

Add **padding around the icon** using the Properties pane. Set the padding values to 10 each for Top, Bottom, Left, and Right. This will make the icon look smaller but still have a larger hit target for the click action. This is a good pattern to use for most icons.

Task 6: Test the app

Let's save the app by selecting **File** -> **Save**. It is a good idea to save your app regularly. **Note**: You can also test your app right on the canvas by holding down the Alt key to activate buttons and other controls, as well as double-clicking to type into controls.

1. Go to the main screen and **Preview** the app by hitting the Play button in the top right.

File Home Insert	View Action Sc	reen					Device Ordering	g App - Saved (I	Unpublished)	9 C	▶ & ?
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			Note:	acer	A			9 A	Image position	Fit	~
		•••• •••							Color		3

- 2. Select a manufacturer logo on the left to show a filtered set of devices.
- 3. Check the compare box on a few devices on the main screen from a few different manufacturers.
- 4. Click the **Compare** button to navigate to the compare screen.

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/isus	and the second	in the second			
Dell			A SALAR DE		
(hp)					
Microsoft	Surface	Surface	Surface	Surface	
	\$499.00	\$599.00	\$899.99	\$999.00	
lenovo					
SAMSUNG	Compare	Compare	✓ Compare	Compare	
SONY					
TOSHIBA					
		(Clear selection		Compare 3 item(s)

5. Tap or click on different devices in the gallery and verify that the selection highlight works.

6. Click the back button and confirm you get back to the main screen.

	Device Ordering App		
Surface	Surface	Surface	
\$499.00	\$599.00	\$899.99	
Microsoft 2GB RAM Intel Core 32GB	Microsoft 2GB RAM Intel Core 64GB	Microsoft 4GB RAM Quad-core 64GB	

7. Click Clear Selection.

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	19-91				
Deell					
	Surface	Surface	Surface	Surface	
Microsoft	\$499.00	\$599.00	\$899.99	\$999.00	
lenovo	Compare	Compare	Compare	Compare	
SAMSUNG					
SONY		/			
TOSHIBA					
	Clear	rselection			Comp

8. The Compare List will clear, and the Compare button will become disabled.

Power platform App in a Day

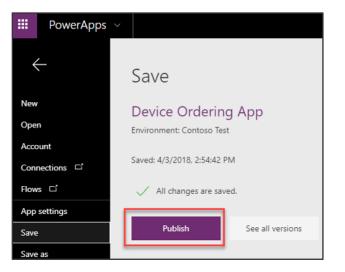
Surface \$499.00	Surface \$599.00	Surface \$899.99	Surface \$999.00	
Compare	Compare	Compare	Compare	
Clear	r selection			Compare 0 item(s)

9. Close the preview.

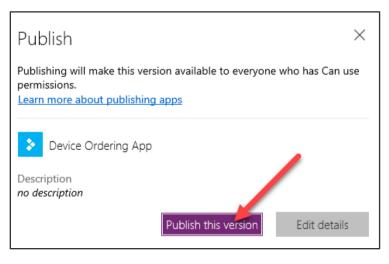
Task 7: Test the app on a mobile device

Congratulations! You've created your PowerApps app. Now let's publish and test it on a mobile device.

1. File -> Save and click the Publish button.



2. Click **Publish this version** on the confirmation prompt.



This action will publish the latest saved version of the app.

3. Go to your device's app store application. Search for "**PowerApps**" and install the PowerApps application. Launch the app.



4. When the app starts, it will prompt for your business or school account credentials. **Log in** with the same account that you used to create the PowerApps app. You should see the app you just created in the list of apps. **Run the app**.

Task 8: [Optional] Share the application with a colleague

You may optionally share the application with another user within the same organizational tenant as the user who created the app. So, if you had logged in as meganb@contoso.com, you may share the app with any other User, Security Group or Distribution Group within the @contoso.com tenant.

- 1. To share the app, go to <u>http://web.powerapps.com</u>. Log in if prompted for credentials.
- 2. Select **Apps** in the left pane, look for your Device Ordering app in the app list, click the three dots (...) next to the app to bring up the context menu. Click the **Share** option.

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ଜ	Home	L3	Apps in Contoso Test				
۵	Learn		Recent apps Apps I can edit	Org apps			
Q,	Apps		Name		Owner	Permissions	Modified
	Data	~	> Device Ordering App		··· You	Owner	42 sec ago
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Ģ	Notifications			[우, Share		
					→ Export package (preview)		
					🗎 Delete		
					 Details 		

3. In the share screen, enter the name or email of the user you would like to share the app with. You may also share it with a user group.

Share Device Ordering App	
✓ Version 4 is published.	
	~

4. Select the user or group; this will add it to the **Shared with** list below. You may provide this user/group either **Can** use or **Can edit** permissions.

Send an email invita Shared with	tion (optional)	
Name	Email	Permission ?
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		Cancel Save

5. If the **Notify users via email option** is checked, when you hit **Save**, the user or all users in the group will receive an email letting them know that the app has been shared with them, along with a link to open the app.



Next steps

Now that you have learned the basics of creating an app, take a little time to think about what you would like to create next. What made you most excited about the device ordering app? What would you have done differently? Here's an example of some changes you can make to the UI:

		Device Order	Арр	Hello, Megan Bo	wen
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/isus	Pavilion dv6	ProBook 4545s	Z1		
	\$699.0	\$499.0	2 1 \$2,679.0	Spectre XT Pro \$1,099.0	HP Eli \$1,349.0
Dell	AMD Quad Core A8-4500M	Intel Core i3-3110M (2.4 GHz)	Intel Xeon E3-1245v2 (3.4	Intel Core i5-3317U (1.7 GHz)	Intel Core
I	Add to Compare	Add to Compare	✓ Add to Compare	Add to Compare	Add t
Microsoft	CO CONDICAL ADDRESSON MARKED	Profince	All in One		>
	EliteBook 8570p	ProBook 4440s	Compaq Pro	ENVY Pro	Touch
	\$1,049.0	\$679.0	\$859.0	\$849.0	\$899.99
lenovo	Intel Core i5-3320M (2.6 GHz)	Intel Core i5-3210M (2.5 GHz)	Intel Core i5-3470S (2.9 GHz)	Intel Core i5-3317U (1.7 GHz)	AMD Lynx
	Add to Compare	Add to Compare	Add to Compare	Add to Compare	Add t
SAMSUNG				Compare 3 i	tem(s)

Features like shading, number of rows, and greying out items not selected can have a big impact on how your app looks and feels. To learn more, check out the links in the reference section and take the next step in building great apps.

Lab survey

We would appreciate your feedback on the Business Application Platform technologies and on this hands-on-lab, such as the quality of documentation and the usefulness of the learning experience.

Please use the survey at http://aka.ms/appinadayLabSurvey to share your feedback.

You may provide feedback for each module as you complete it or at the end once you've completed all the modules. Thank you!

References

App in a Day introduces some of the key capabilities available in PowerApps. For a list of learning resources, see http://aka.ms/powerapps-resources and http://aka.ms/flow-resources.

PowerApps

- Website Blog Documentation Community Suggest Ideas Webinars
- Product updates
- <u>Guided Learning</u> YouTube playlist
- <u>Licensing / Pricing</u>
- Support known issues | view/report issues | create a support ticket

Microsoft Flow

- <u>Website</u> | <u>Blog</u> | <u>Documentation</u> | <u>Community</u> | <u>Suggest Ideas</u> | <u>Webinars</u>
- Product updates
- Guided Learning | YouTube Playlist
- Licensing / Pricing
- <u>Support</u>

Common Data Service (CDS)

- <u>Common Data Service documentation portal</u>
- Feature updates

Microsoft Business Platform

- https://businessplatform.microsoft.com/

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