Power Apps and Power Automate Champion Training

Module 9.2: Connect the data from the canvas app and submit device request

Student Lab Manual

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Contents

Lab 4.2: Connect the data from the canvas app and submit device order

Introduction

Now that you have created the list to store device order requests, let's connect Device Ordering App to this list and add a form to submit device approval requests.

Objectives

After completing this lab, you will be able to:

- Connect SharePoint list as data source
- Configure and add form
- Submit Form
- Test the app

Prerequisites

Ensure you are using the "Incognito" or "InPrivate" browsing session of your modern browser. Additionally, use the latest version of Microsoft Edge (aka Edge Chromium) for the best performance.

Estimated time to complete this lab

45 mins

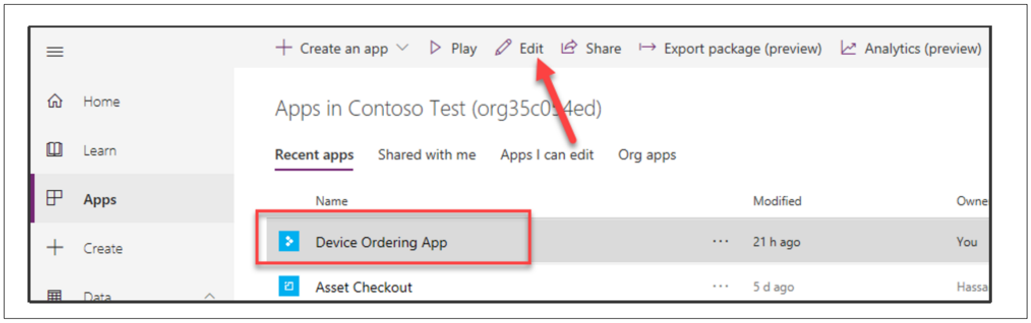
Scenario

The organization wishes to build apps using the PowerApps platform to take advantage of **No Code/Low Code** application development in the cloud. As part of this effort, you are required to add new data source (SharePoint list), configure, add and submit form, add/remove gallery controls, manipulate the navigation, and test the functionality of your app.

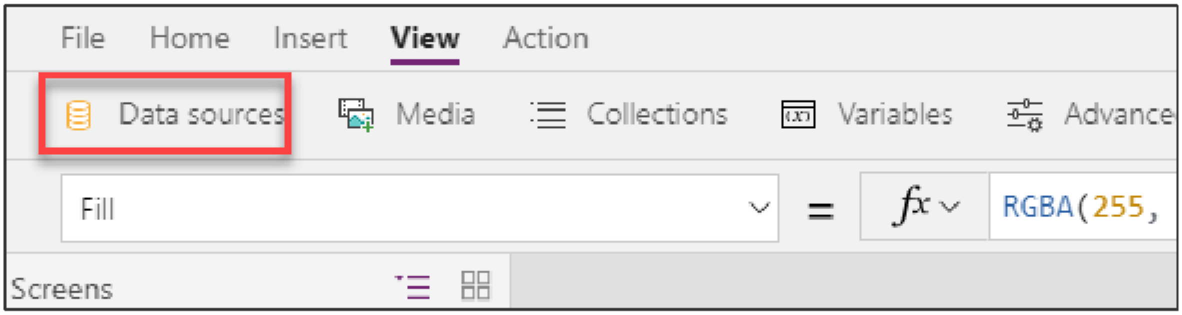
Exercise 1: Add SharePoint list as a data source and device submit form to the app

Task 1: Add SharePoint list as data source

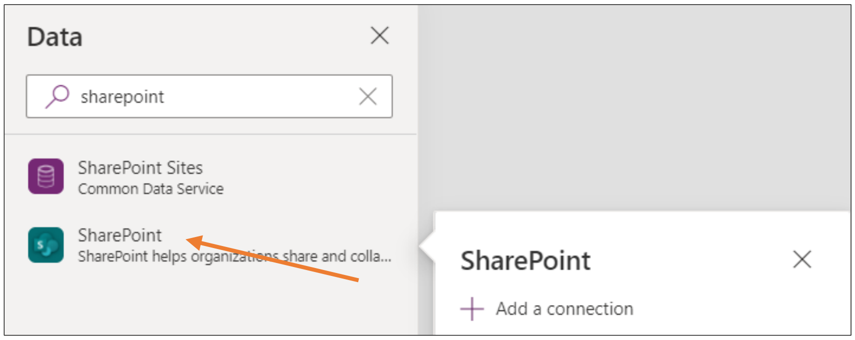
1. Navigate to the **Device Ordering App** you created in the previous module, select the app, and click **Edit**.



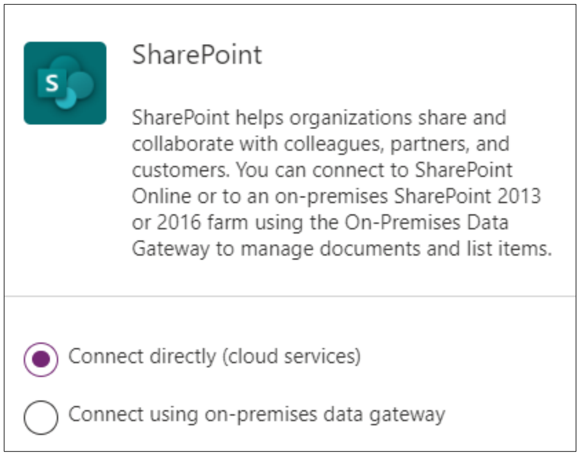
2. Select the **View** tab and then click **Data sources** to display the Data pane to the right of the canvas.



3. Search SharePoint, click **SharePoint** (SharePoint helps organizations ….), and select **Add a connection**.



4. On the right-hand pane, leave **Connect directly (cloud services)** selected, and click **Connect** at the bottom.



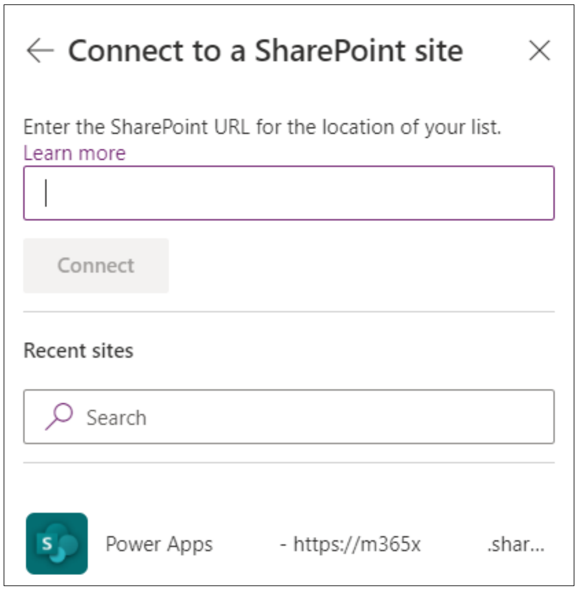
SharePoint

SharePoint helps organizations share and collaborate with colleagues, partners, and customers. You can connect to SharePoint Online or to an on-premises SharePoint 2013 or 2016 farm using the On-Premises Data Gateway to manage documents and list items.

● Connect directly (cloud services)

○ Connect using on-premises data gateway

5. Connect to the SharePoint site we created earlier and select the site.

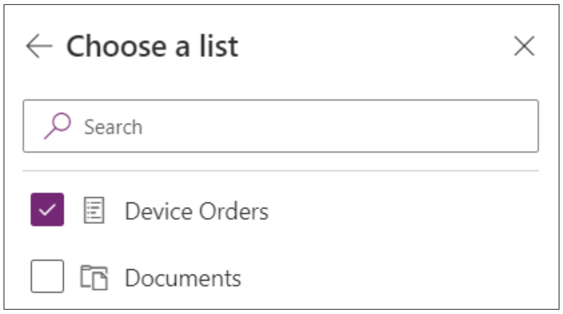


Connect to a SharePoint site

Enter the SharePoint URL for the location of your list.
Learn more

Power Apps - https://m365x .shar...

6. Check **Device Orders** and select **Connect** at the bottom.



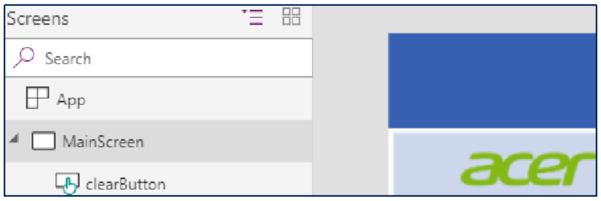
Choose a list

☑ Device Orders

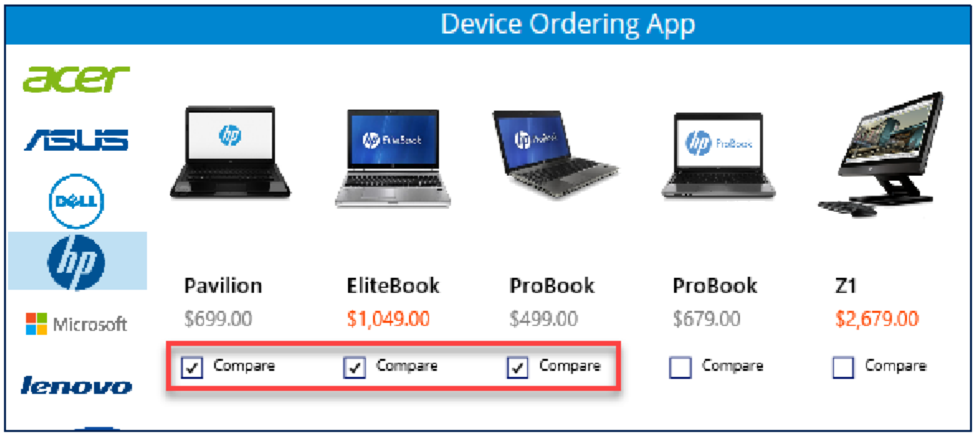
□ Documents

Task 2: Create the edit form

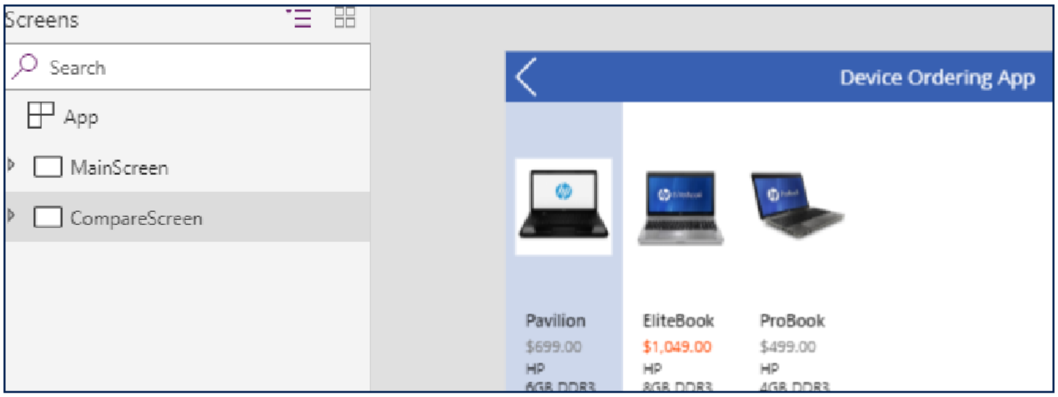
1. Select the **MainScreen**.



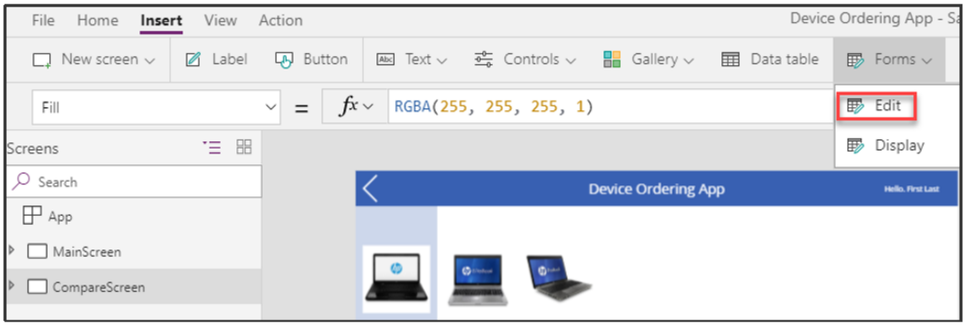
2. Select few devices. Hold the “Alt” key, and then it will allow you to check the compare on the devices.



3. Select the **CompareScreen**. You will now have the selected devices.

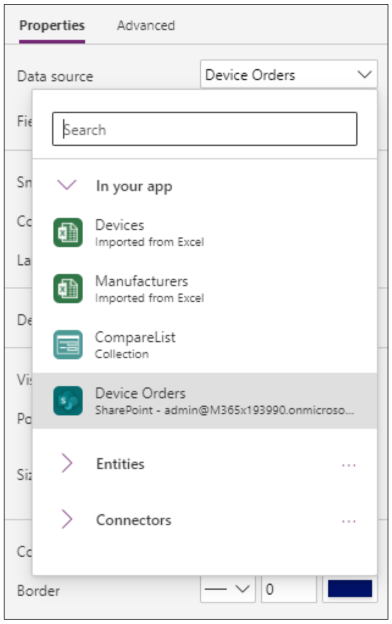


4. Select the **Insert** tab, click **Forms**, and select **Edit**. Rename Form1 to **SubmitOrder.**



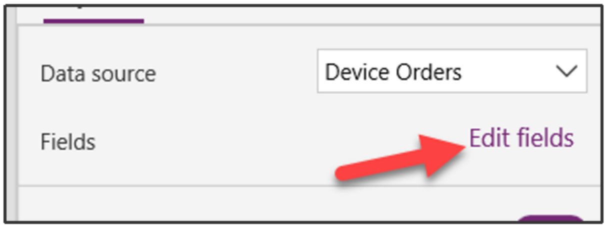
```
Fill = fx RGBA(255, 255, 255, 1)
```

5. Click the Data Source drop-down in the Data pane on the right and select **Device Orders** (SharePoint data source).



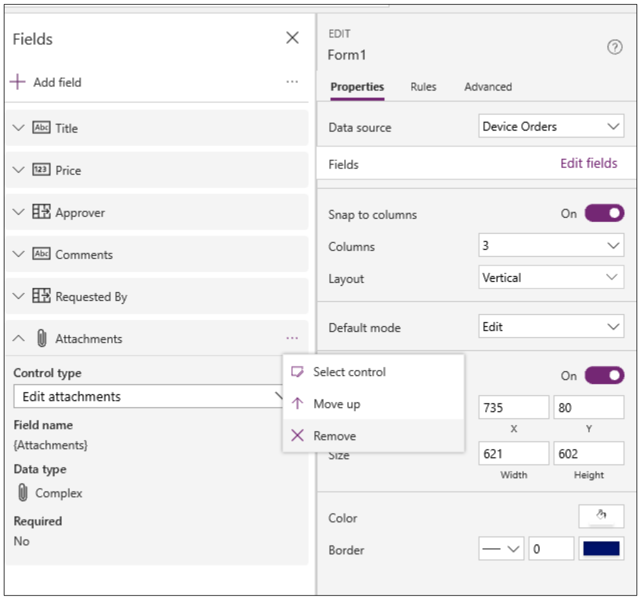
Data source: Device Orders

6. Click Edit Fields.



Data source: Device Orders

7. Remove the Attachment field.



Control type: Edit attachments

Field name: {Attachments}

Data type: Complex

Required: No

EDIT Form1

Data source: Device Orders

Snap to columns: On

Columns: 3

Layout: Vertical

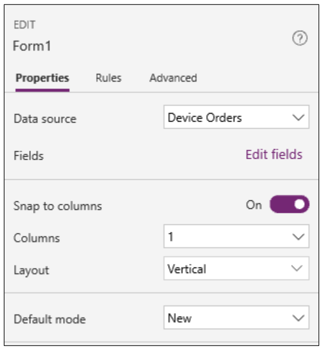
Default mode: Edit

Position: 735 (X), 80 (Y)

Size: 621 (Width), 602 (Height)

Border: 0

8. Set **Columns** Property to 1 and **Default mode** to New.



EDIT
Form1

Properties | Rules | Advanced

Data source: Device Orders

Fields: Edit fields

Snap to columns: On

Columns: 1

Layout: Vertical

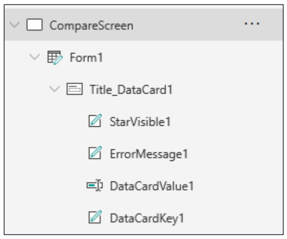
Default mode: New

Task 3: Configure the title field

In the next few steps, you will configure each of the form fields.

Let's start by configuring the Title to display the manufacturer and device name for the selected device. For example, if the user selects the Surface Pro device, we want the device order to have the title: "Microsoft – Surface Pro."

1. Expand and select Title.

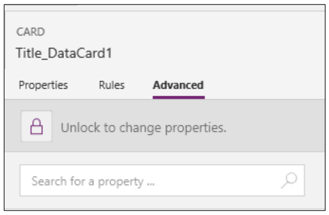


- CompareScreen
  - Form1
    - Title_DataCard1
      - StarVisible1
      - ErrorMessage1
      - DataCardValue1
      - DataCardKey1

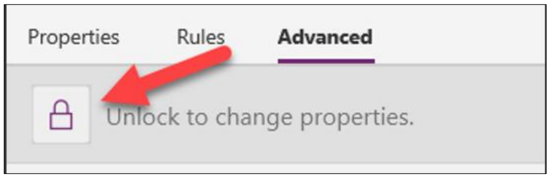
Notice that the default card contains a few controls:

StarVisible1: This is a label control that has an asterisk (*) which has its Visible property set to true or false depending on whether the field is Required or not. Since the Title field was marked as Required when you configured the entity, its Required property is set to true.
ErrorMessage1: This is a label that is just below the main data entry field which displays error messages.
DataCardValue1: This is the text input control where you can enter the Title. For this scenario, we will set the title based on the selected device. DataCardKey1: This is the label that displays the title of the field.

2. Select **Title_DataCard1** and click **Advanced**

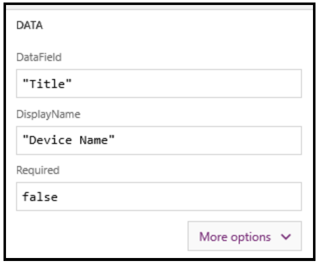


3. Click unlock so you can customize the card



For the next few steps, we will use the Advanced pane to customize control properties within the form, note that you can perform the same customizations using the property drop-down, and formula bar in the top left of the studio.

4. Change DisplayName and Required fields as below


DATA

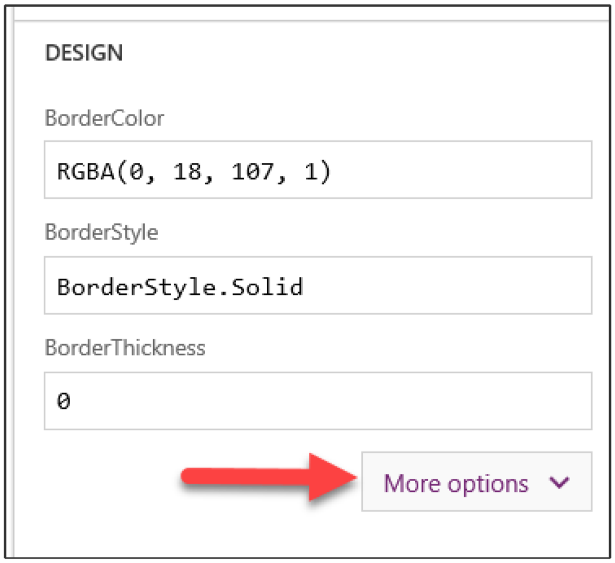
DataField
"Title"

DisplayName
"Device Name"

Required
false

5. To display the selected item in the Title field, set the Default property to CompareListGallery.Selected.ManufacturerName & " - " & CompareListGallery.Selected.Title

6. Click **More Options** button in the **DESIGN** section of the Advanced pane. We are going to change the Device Name field to be read only so they don't change it.



DESIGN

BorderColor

```
RGBA(0, 18, 107, 1)
```

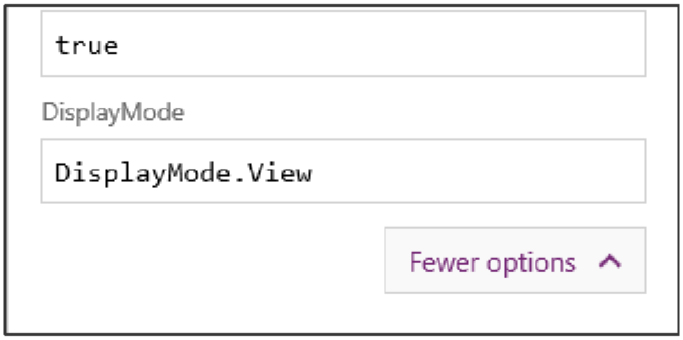
BorderStyle

```
BorderStyle.Solid
```

BorderThickness

```
0
```

7. Change the DisplayMode to DisplayMode.View. This will prevent users from changing the value within the text box.



```
true
```

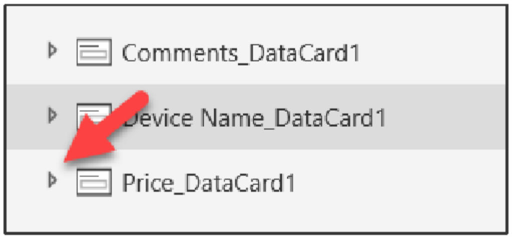
DisplayMode

```
DisplayMode.View
```

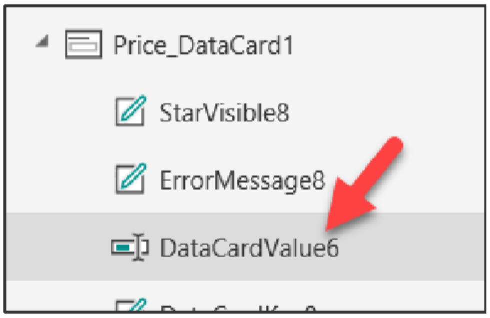
Task 4: Configure the price field

In this task, we are going to set the price to the price of the item and then make it read-only.

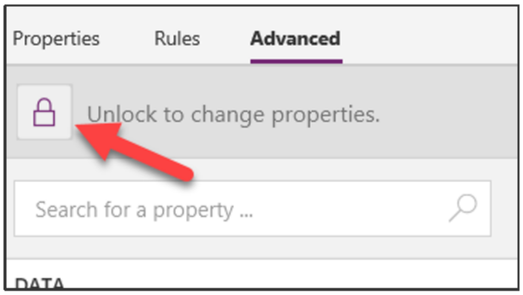
1. Expand Price.



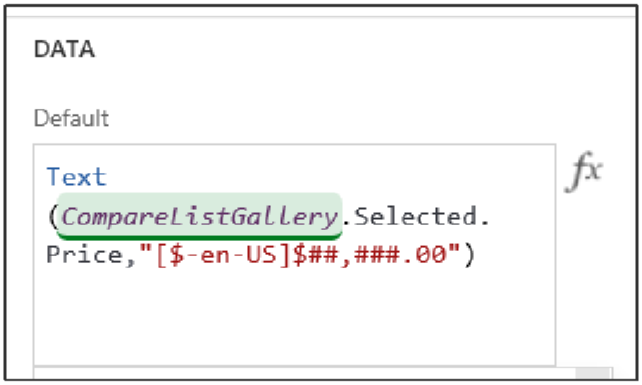
2. Select the **Data Card.**



3. Select the **Advanced** tab and click **Unlock**.

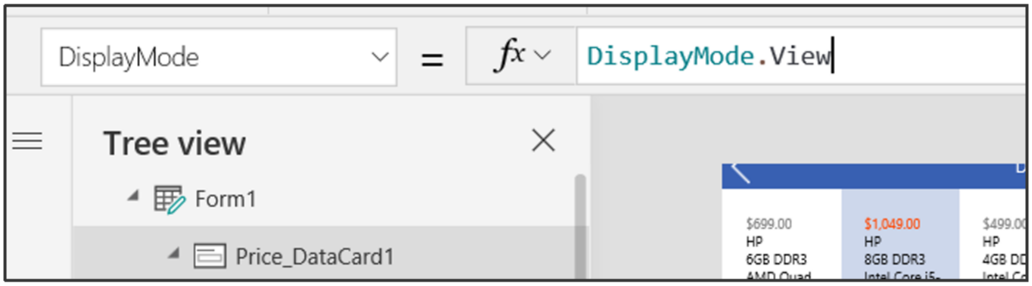


4. Change the Default property to: Text(CompareListGallery.Selected.Price,"[$-en-US]$##,###.00")



```
Text
(CompareListGallery.Selected.
Price,"[$-en-US]$##,###.00")
```

5. Select Price and change the **DisplayMode** property to **DisplayMode.View.**

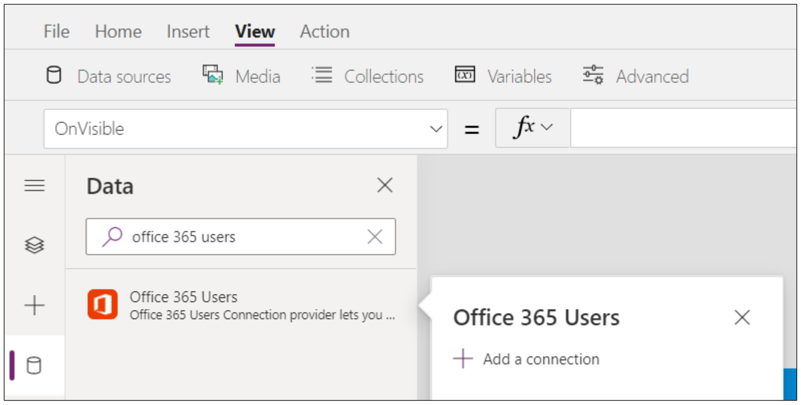

DisplayMode = DisplayMode.View

6. Select the **Advanced** tab and click **Unlock**.

Task 5: Configure the approver field

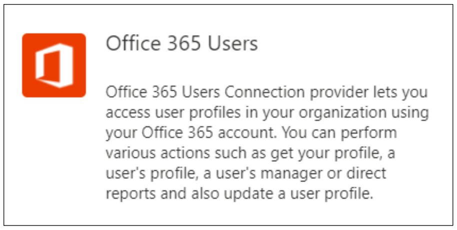
Let's set the default value for the Approver to be the email address of the logged in user's manager. You will use the Office 365 graph to retrieve the manager's email. You can find more about the Office 365 Users Connection provider here: https://docs.microsoft.com/connectors/office365users/

1. Select View in the ribbon, then Data sources, search for **Office 365 Users**, and **+ Add a connection**.

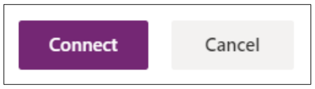

OnVisible =

office 365 users

2. On the right-hand pane, select **Connect** at the bottom of the right-hand pane.

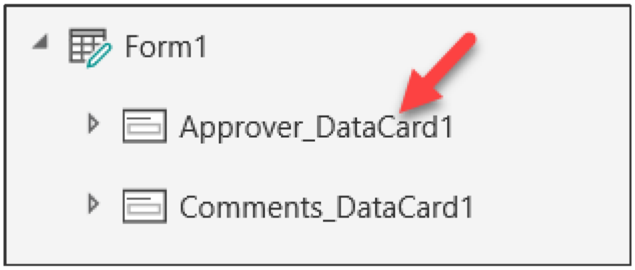

Office 365 Users

Office 365 Users Connection provider lets you access user profiles in your organization using your Office 365 account. You can perform various actions such as get your profile, a user's profile, a user's manager or direct reports and also update a user profile.

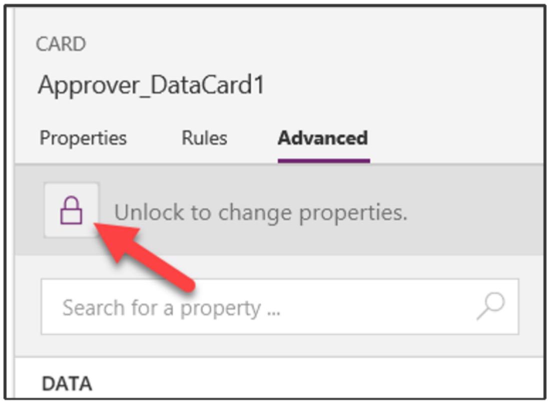


3. Close the Data pane.

4. Select **Approver**.



7. Go to the **Advanced** pane and **Unlock**.



Unlock to change properties.

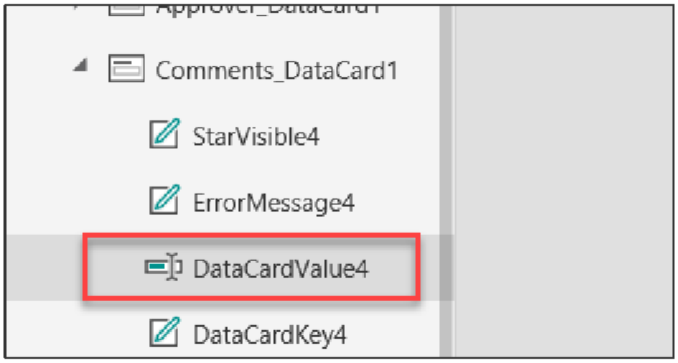
8. Set the Default value to: User().Email This expression will use your user's email, so you won't accidentally email your manager to approve your testing.

In a real application or if you wanted to try the expression to use your managers email would be Office365Users.Manager(User().Email).Mail This would make an API call at runtime to get the manager's email address of the logged-on user. If you try this and hit an error when calling the Office365Users.Manager() function, this may be because a manager is not set up in the system for the logged in Office 365 user. In that case, you can simply go back go User().Email.

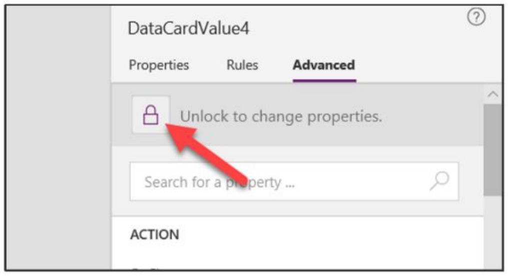
The Office 365 User connector has access to many other valuable types of information. You can learn more about the other actions and data available here: https://docs.microsoft.com/en-us/connectors/office365users/

Task 6: Configure the Comment field

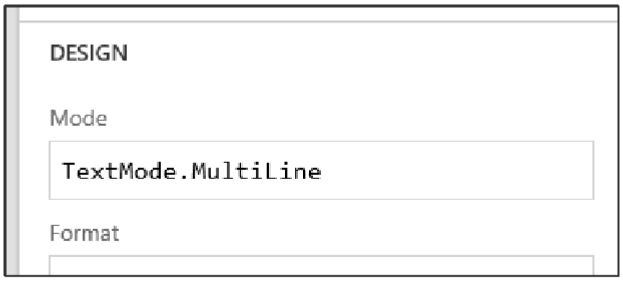
1. Expand the **Comments** field and select the **DataCardValue**.



2. Select the **Advanced** tab and **Unlock**.



3. Change the **Mode** to TextMode.MultiLine

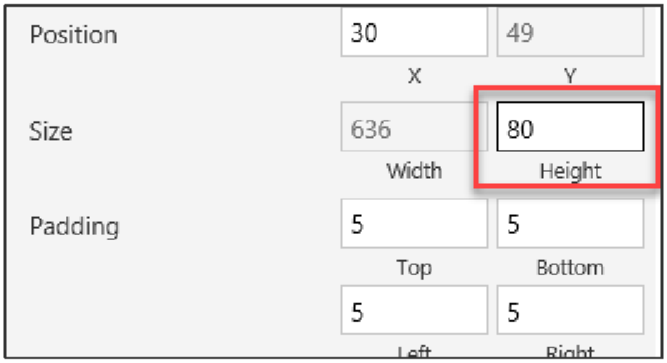

DESIGN

Mode

TextMode.MultiLine

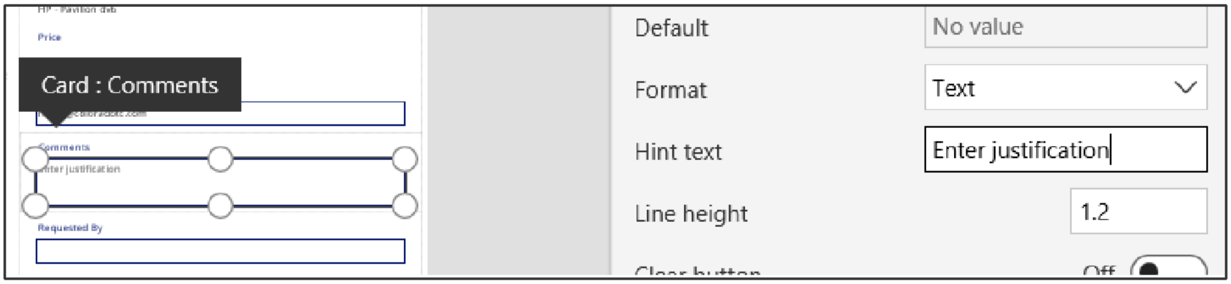
Format

4. Select the **Properties** tab and change the **Size -> Height** value to **80**.



Position	30 X	49 Y
Size	636 Width	80 Height
Padding	5 Top	5 Bottom
	5 Left	5 Right

Optionally, you may select the Text Input control **DataCardValue4** and set its **HintText** property to: "Enter justification" (without quotes).



Default: No value

Format: Text

Hint text: Enter justification

Line height: 1.2

Clear button: Off

Task 7: Configure the Requested By field

Let's set the Requested By field to be the current logged on user's email and disable the control so the user cannot change this value.

1. Select the Requested By card.
2. Go to the Advanced pane and Unlock the card.
3. Change the DisplayMode property to: DisplayMode.View
4. Set the Default value to User().Email. This is the email of the currently logged in user.

Task 8: Add a button to submit the form

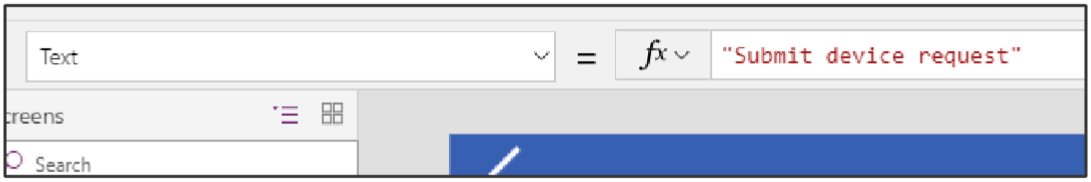
1. Select the **MainScreen**.

2. Copy the **Compare button** from the first screen which has the correct color values.

3. Go back to the CompareScreen and paste (Ctrl-V) the button.

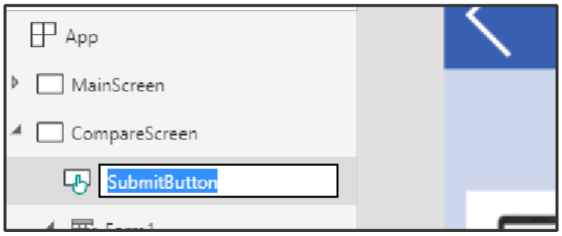
4. Position it in the bottom right of the screen, center aligned with the Form.
5. Make the button larger – you can resize to 280x60 using the Properties pane on the right.

6. Set the button's Text property to "Submit device request"

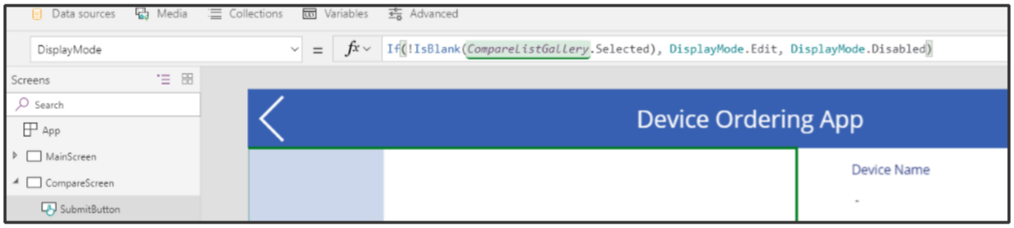


```
Text = fx "Submit device request"
```

7. Rename the button to **SubmitButton**.



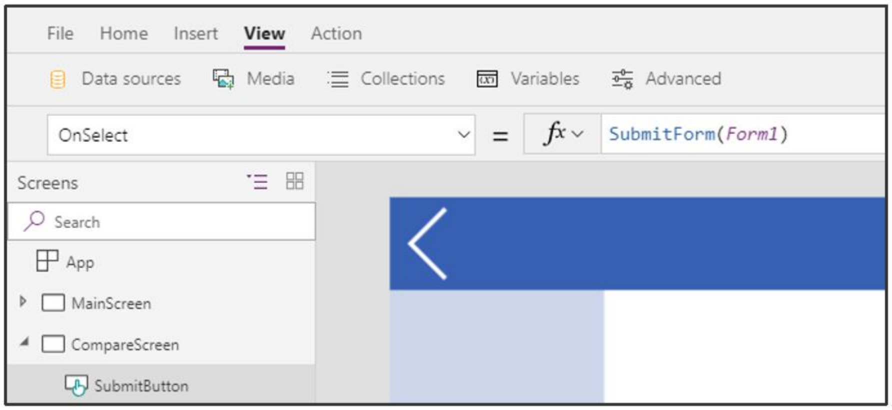
8. The button should be enabled only if a device is selected. To do this, change the button's DisplayMode property to: If(!IsBlank(CompareListGallery.Selected), DisplayMode.Edit, DisplayMode.Disabled)



DisplayMode = If(!IsBlank(CompareListGallery.Selected), DisplayMode.Edit, DisplayMode.Disabled)

Note: You might notice the exclamation mark (!) in the formula !IsBlank() Normally if you just have IsBlank() the check is for blank. Adding the exclamation mark (!) in front of it changes it to check if it is NOT blank.

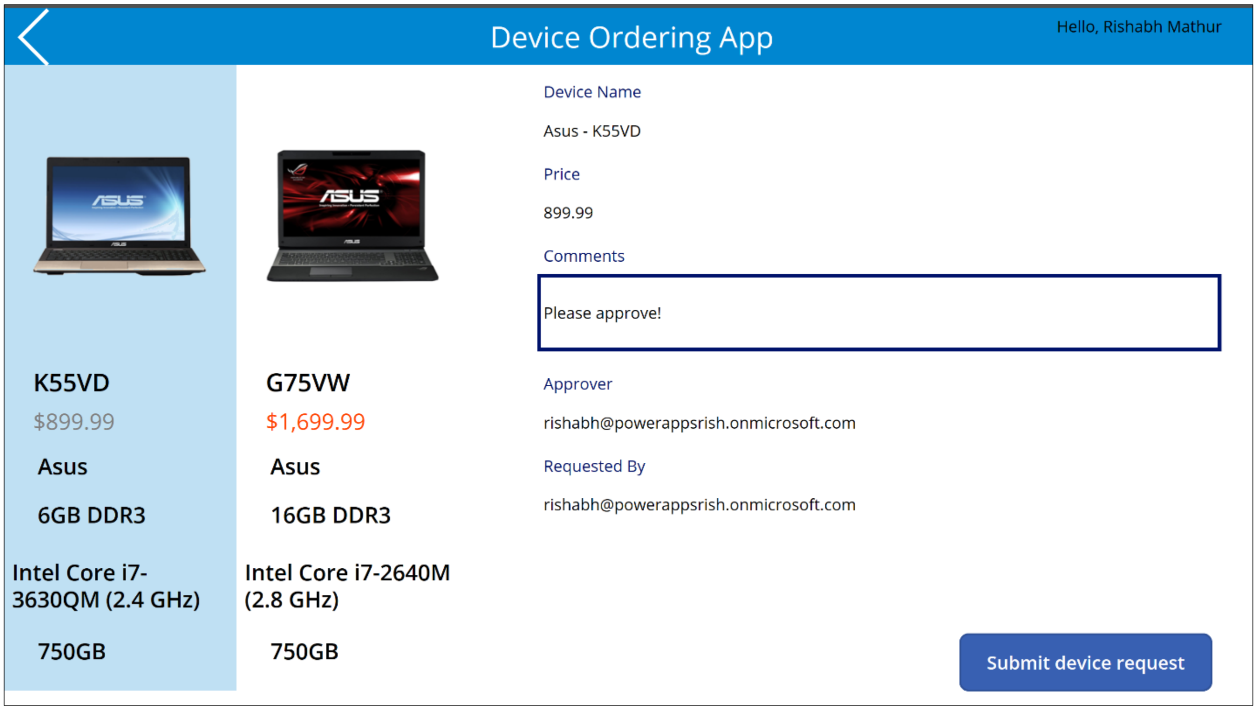
9. Next, we are going to configure what we want to happen when the button is clicked. Set the OnSelect property to SubmitForm(SubmitOrder)



OnSelect = SubmitForm(Form1)

When the button is pressed, the form data will be submitted to the SharePoint list.

Finally, the submit form should look like below:



Device Ordering App

Hello, Rishabh Mathur

K55VD
$899.99
Asus
6GB DDR3
Intel Core i7-3630QM (2.4 GHz)
750GB

G75VW
$1,699.99
Asus
16GB DDR3
Intel Core i7-2640M (2.8 GHz)
750GB

Device Name

Asus - K55VD

Price

899.99

Comments

Please approve!

Approver

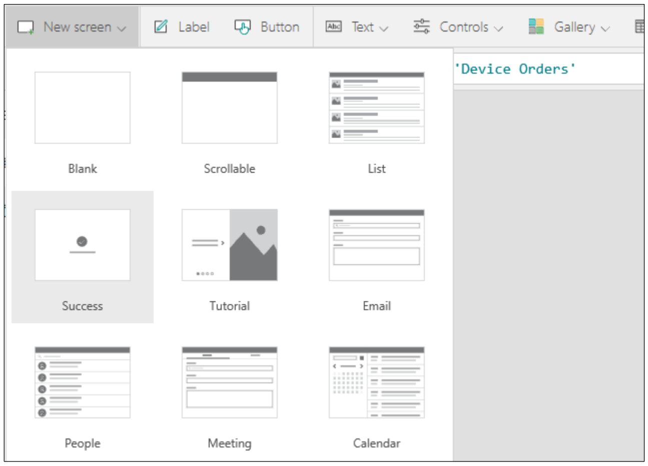
rishabh@powerappsrish.onmicrosoft.com

Requested By

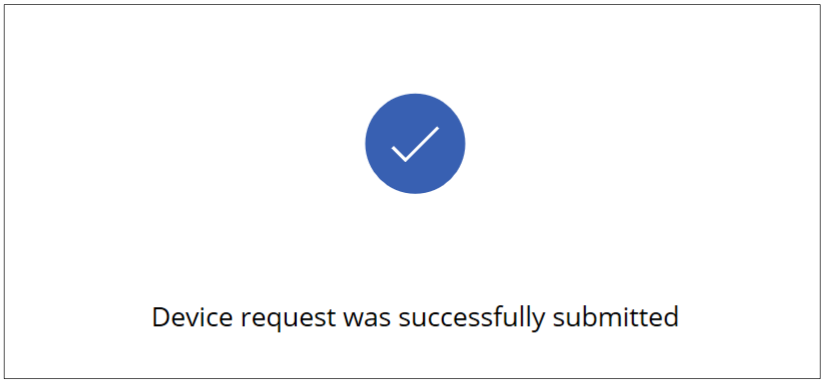
rishabh@powerappsrish.onmicrosoft.com

Task 9: On successful submission navigate to a new screen

1. Create a **new screen** (Success) and rename it – **Success**



Update the text of the new screen as shown below

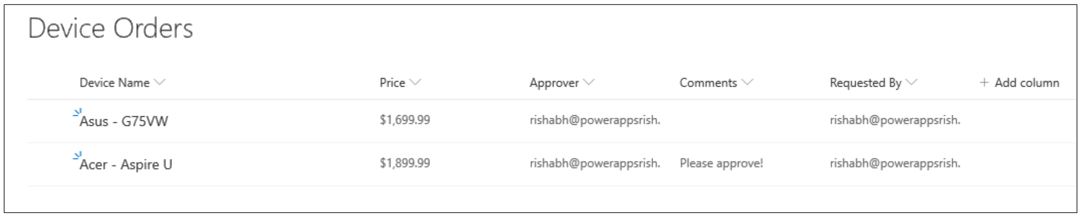


Device request was successfully submitted

2. Select Compare Screen > Form1 > Advanced, set OnSuccess value to Navigate(Success,ScreenTransition.Fade)

Task 10: Verify successful submission

1. Browse to the SharePoint list – Device Orders
2. Make sure successful submissions are stored in the list.



Device Orders

Device Name	Price	Approver	Comments	Requested By	+ Add column
Asus - G75VW	$1,699.99	rishabh@powerappsrish.		rishabh@powerappsrish.	
Acer - Aspire U	$1,899.99	rishabh@powerappsrish.	Please approve!	rishabh@powerappsrish.	