PowerApps App in a Day

Module 2: Common Data Service for Apps Hands-on Lab Step-by-Step

July 2018

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Common Data Service for Apps

Lab Prerequisites

This is the second lab in a four-part series covering PowerApps Canvas Apps, Common Data Service for Apps, PowerApps Model-driven Apps and Microsoft Flow. The assumption is that you have successfully completed the initial part of setting up an environment as described in the overview document – "00-AppInADay Lab Overview.pdf".

If you have not completed building the PowerApps Canvas App in module 1, you can use the partially completed version of the lab package in the "\Completed\Module1" folder. Follow the instructions in the document "Importing Module 1 Completed" before proceeding with this module.

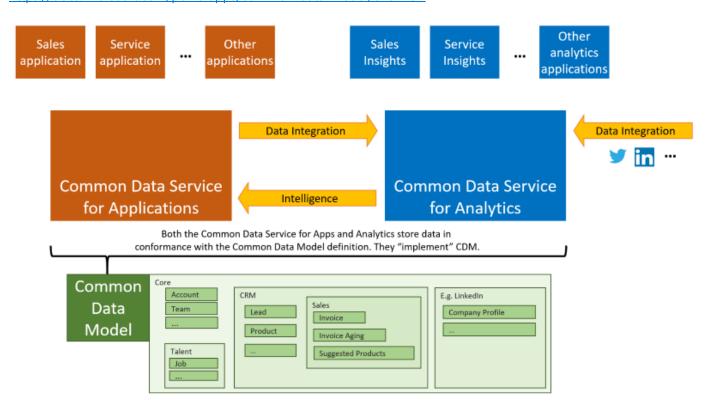
Before you begin

You must be connected to the internet.

- 1. **System requirements:** At a minimum, a computer with 2-cores and 4GB RAM running Windows 7+ or MacOS.
- 2. **Have a Test Environment with permission to create Common Data Service database:** You should have gone through the steps to create a new environment using the Admin center. In this lab, you will create a database in this environment if you haven't already created one.
- 3. **Sign-in to PowerApps:** Go to http://powerapps.com and **sign in** with the same account you used to complete the first lab. Make sure you switch to the environment where you created the app.

Overview

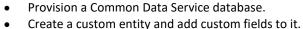
The Common Data Service for Apps (CDS for Apps) adds data storage and modeling capabilities to PowerApps that is scalable and easy to provision. In addition to allowing for the creation of custom entities, CDS for Apps contains a Common Data Model (CDM) currently consisting of 100+ standard entity definitions. You can find the current CDM schema at https://github.com/Microsoft/CDM and you can browse the CDM using the CDM Visual Entity Navigator located here https://microsoft.github.io/CDM/. You can read more about the CDM here https://docs.microsoft.com/powerapps/common-data-model/overview



Goals for this lab

After this lesson you will be able to:







- View the entity data in the entity table.
- Create a calculated field.
- Implement a server-side business rule.



The time to complete this lab is [45] minutes.

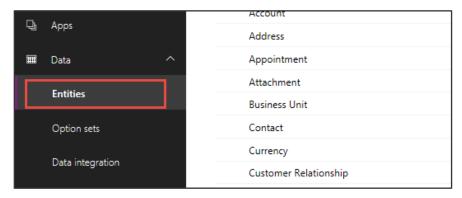
Exercise 1: Exploring the Common Data Service

In this exercise, you will explore the Common Data Service standard entities.

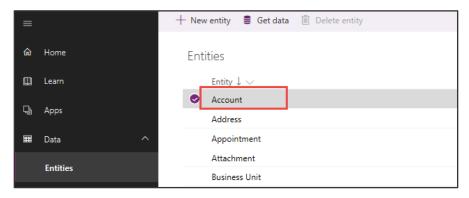
Task 1: Explore standard entities

In this task, you will explore Common Data Service standard entities.

1. Navigate to http://web.powerapps.com and in the left pane, expand **Data** and select the **Entities** option.



2. This will bring up the list of entities in this database instance. Click on a few of the standard entities (for example, **Account**) to get familiar with some of the features of an entity.



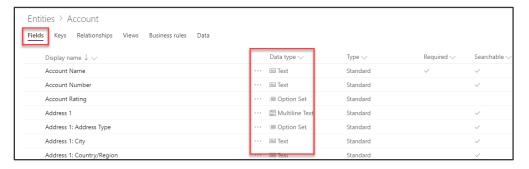
For detailed documentation on CDS entities, see https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/reference/about-entity-reference

Fields:

An entity has a list of fields. Each field has a data type.

Fields of standard entities cannot be edited or removed, but you can extend existing entities by adding additional custom fields.

For a list of supported data types, see https://docs.microsoft.com/dynamics365/customer-engagement/customize/types-of-fields. Please note that a few of the field names have changed slightly in how they present in the list of choices. For example, Single Line of Text is just Text.



Keys:

Allows you to view the lookup keys for the entity. Creating keys can contain multiple fields to define a composite key. Keys enforce uniqueness, so they should not be used when there is a need to store duplicate values of fields used.



Relationships:

Allows you to manage relationships between entities. Relationships supported are One to Many (1:N), Many to One (N:1) and Many to Many (N:N). Relationships also define the behavior that happens when actions occur on the primary record in a 1:N relationship. For example, if the parent record is deleted you can configure the relationship behavior so that all child records are also deleted or simply remove the reference.



Views:

Views will let you define how list records are shown in the app. You can create multiple custom views, each having their own filtering and sorting criteria. For example, you could create a view to see only the records created in the last week and another one to see records that haven't been updated in a year. Create views to make the application users more productive in filtering their data.



Business Rules:

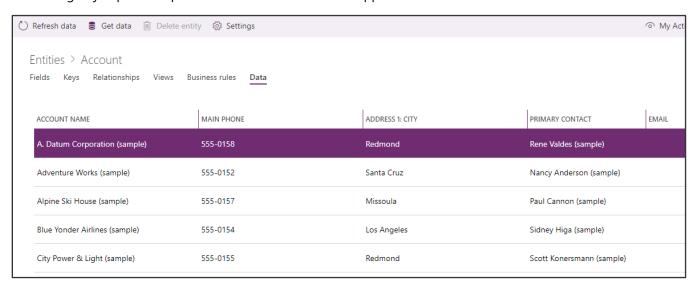
In Dynamics 365, building a Business Rule is like building a flowchart where you can define conditions and actions.

More about Business Rules https://docs.microsoft.com/dynamics365/customer-engagement/customize/create-business-rules-recommendations-apply-logic-form



Data:

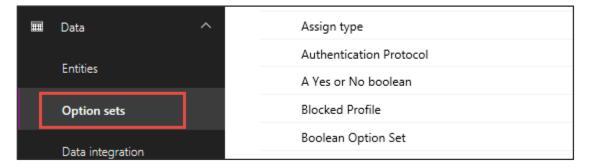
You can view and search the data in the entity table. This gives you a quick way to see some of the data for the entity without having to jump into a specific Canvas or Model-driven app.



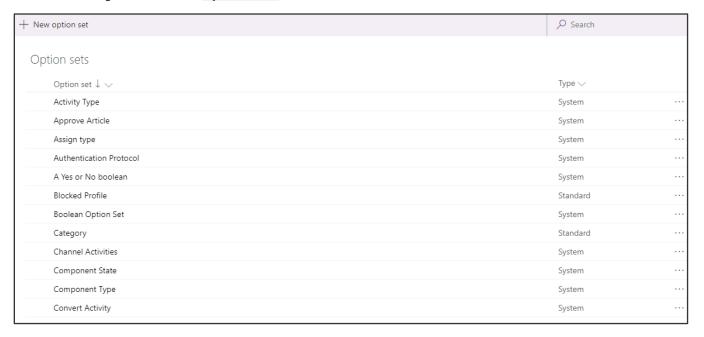
Task 2: Explore standard option sets

Just like standard entities, the Common Data Service includes a set of standard **Option Sets**. You can also create custom **Option Sets**. Later in this lab, we will create a custom **Option Set** called **ApprovalStatus** to set the approval status of a device order.

1. Select Option Sets.



2. Scroll through the standard **Option Sets.**



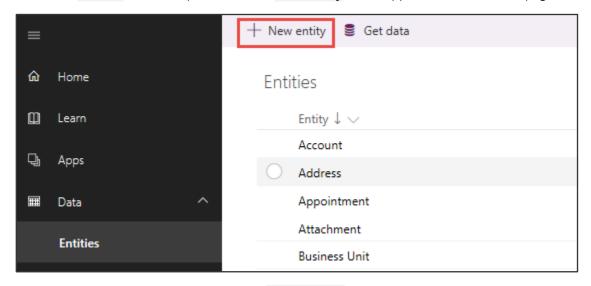
Exercise 2: Custom Entities and Fields

In this exercise, you will create a new custom entity named Device Order, add fields necessary to track the device requests, You will also create a server-side Business Rule that will default the estimated ship date.

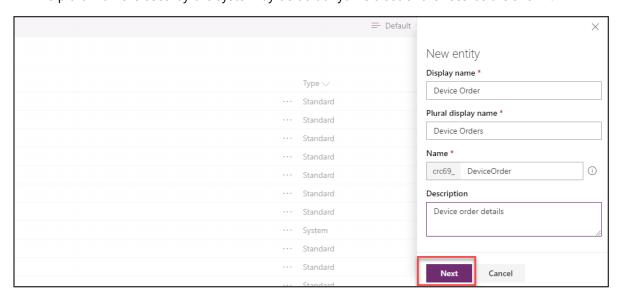
Task 1: Create a custom entity

In this task, you will create a custom entity to store device order requests.

1. Select **Entities** in the left pane and click **New Entity** in the upper left corner of the page.



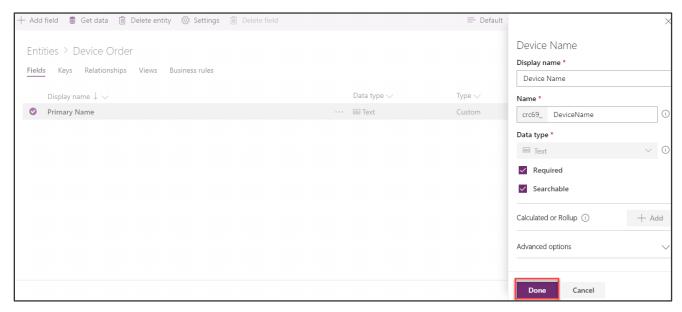
Enter Device Order for Display Name, DeviceOrder for Name, Device order details for Description, and click
Next. The Plural display name will be populated automatically but if needed you can override the name provided.
The plural name is used by the system by default anytime a set of the records are shown.



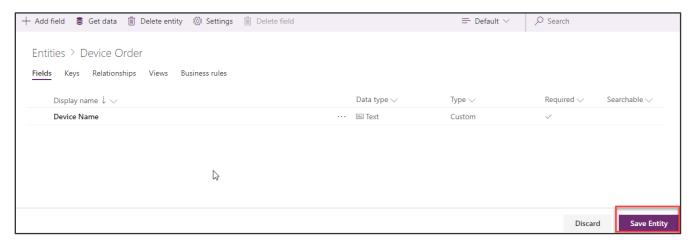
- 3. After you click Next you will be able to change the primary attribute (labeled as Primary Name) and also create other custom Fields prior to actually saving the entity and causing the system to create it. The primary attribute defaults to being named Primary Name, for some scenarios that might not be the best label and you can customize it if needed. The primary attribute however is always a Text field, that is not changeable.
- 4. Click on Primary Name.



5. Change Display name to Device Name, Name to DeviceName, and click Done.



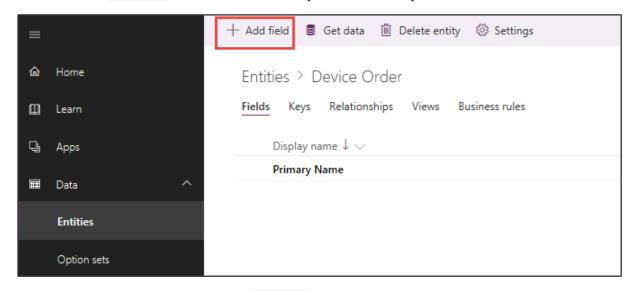
6. Click Save Entity.



Task 2: Create custom fields

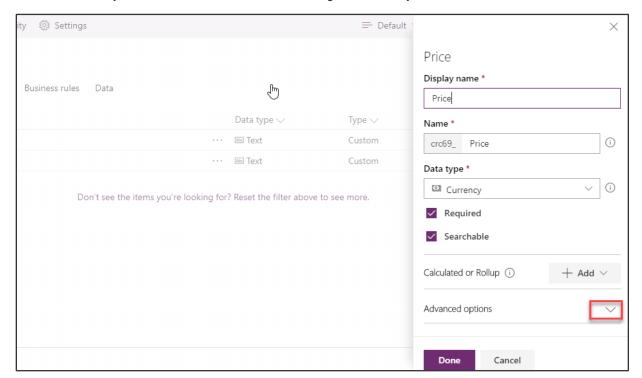
In this task, you will create custom fields for the Device Order entity.

1. Click on the **Add field** button to add fields to your custom entity.

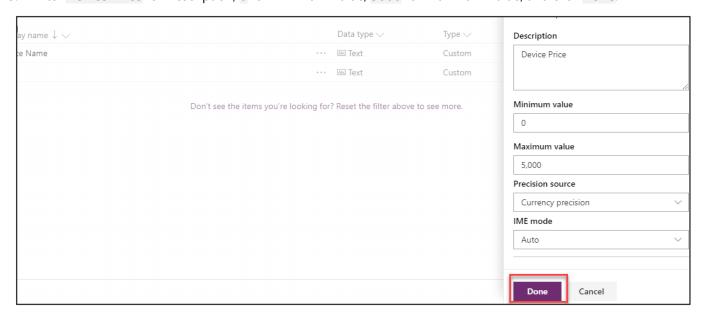


Enter Price for Display Name, select Currency for Data Type, make the field Required and Searchable and click Advanced Options.

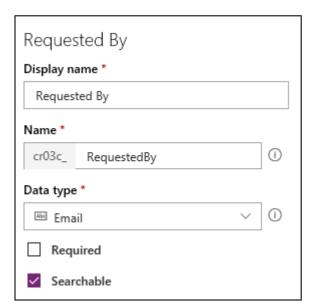
Note: Currency is a special data type. For each currency field you add, another currency field is added with the prefix "_Base" on the name. This field stores the calculation of the value of the currency field you added and the base currency. For additional information on using the Currency field, see here.



3. Enter **Device Price** for Description, **0** for Minimum Value, **5000** for Maximum Value, and click **Done**.



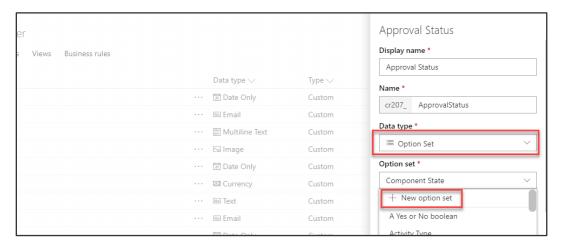
- 4. Click Add Field again.
- 5. Enter **Requested By** for Display Name, **RequestedBy** for Name, **Email** for Data type, make the field **Searchable** and click **Done**.



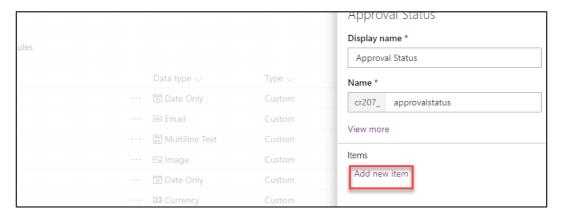
6. Repeat the steps 5 and 6 to create the fields listed below.

Display Name	Name	Туре
Request Date	RequestDate	Date Only
Approver	Approver	Email
Comments	Comments	Multiline Text
Estimated Ship	EstimatedShipDate	Date Only
Date		
Approved Date	ApprovedDate	Date Only

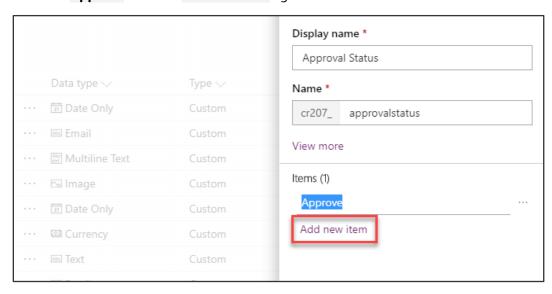
- 7. Now we are going to create the Approval Option Set. Click Add New Field.
- 8. Enter **Approval Status** for Display Name, **ApprovalStatus** for Name, select **Option Set** for Data type, and select **New Option Set** for Option Set.



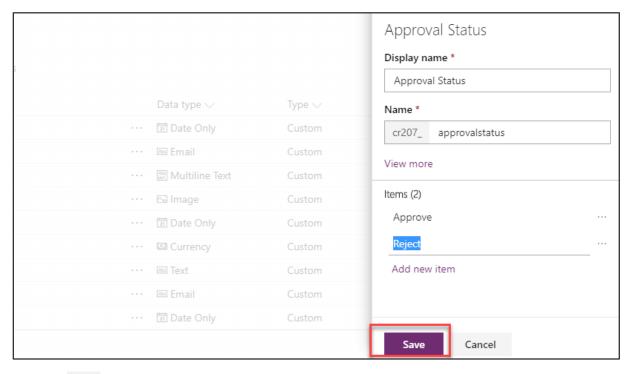
9. Click Add new item.



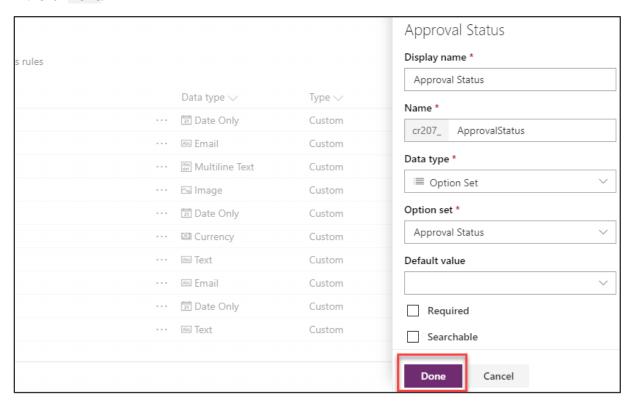
10. Enter **Approve** and click **Add new item** again.



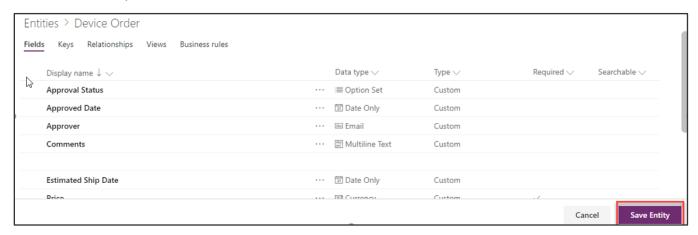
11. Enter Reject and click Save.



12. Click Done.



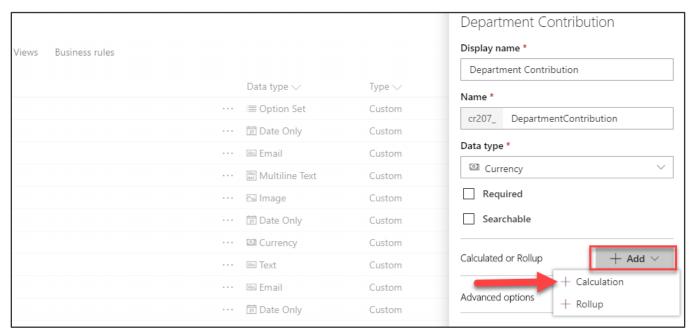
13. Click Save Entity.



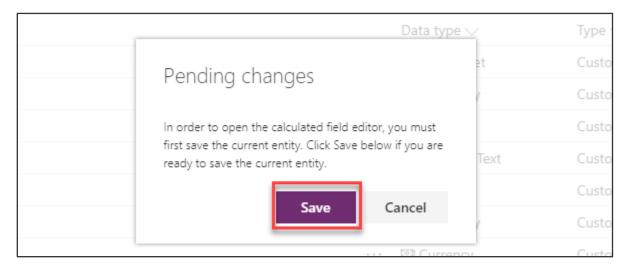
Task 3: Create a calculated field

In this task, you will add a Department Contribution field and set its value to 10% of the price. In our scenario, this is the amount that will come from the department managers budget. Calculated fields are special fields that automatically perform the calculation when the data is retrieved. When you create or modify a calculated field you can set the formula used in the calculation.

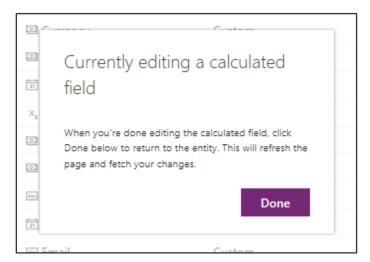
- 1. In the upper left corner of the screen, click on **Add field** to add fields to your custom entity.
- Enter Department Contribution for Display Name, enter DepartmentContribution for Name, select Currency for Data Type, click Add Calculated or Rollup, and select Calculation.



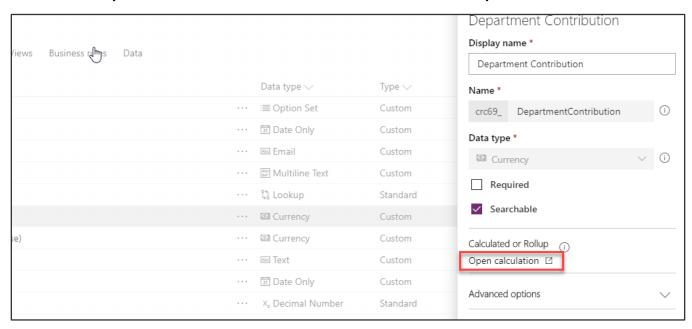
3. Click Save.



4. Click Done.



5. Select the **Department Contribution** field from the list of fields, then click **Open calculation**.



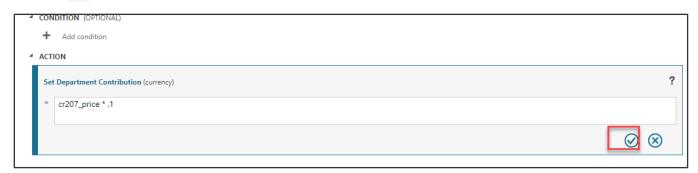
6. Click Add Action.



7. Type price and select the Price field you created.



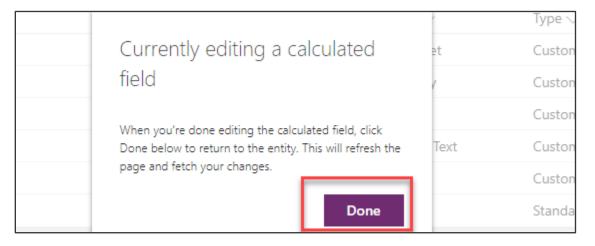
8. Add * .1 and click the Check Mark button.



9. Click Save and Close.



10. Click Done.

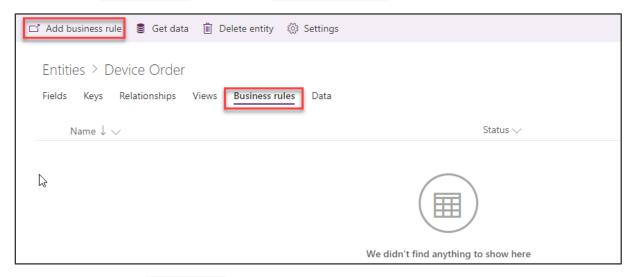


Task 4: Create a business rule

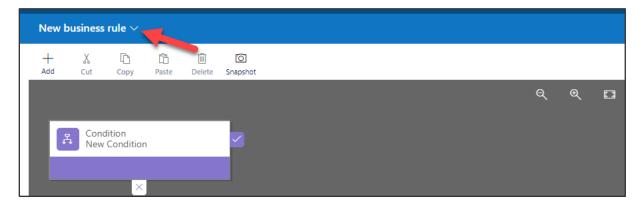
In this task, you will create a **Business Rule** that will set the Estimated Delivery Date to 14 days after approval of the order.

[Update 5/20/2018] Note: There is a known issue where for some users when you enter the value "14" in Step 8 below, the value is not persisted. If you hit this issue you may skip this task and continue on with the lab. This will not impact subsequent steps in the lab.

1. Select the Business Rules tab and click Add Business Rule.



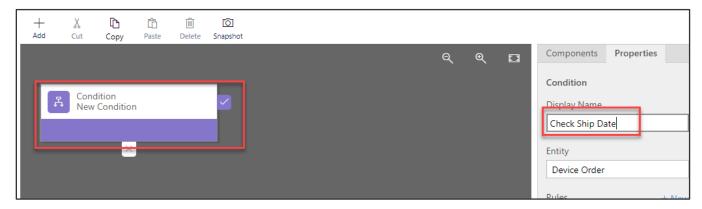
2. Click the arrow to **Show Details**.



3. Change the Name to Calculate Ship Date and click the arrow to Hide Details.

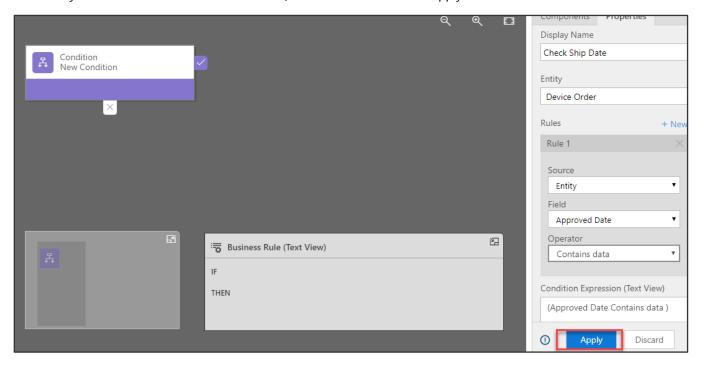


4. Select the **Condition**, change the name to **Check Ship Date**.

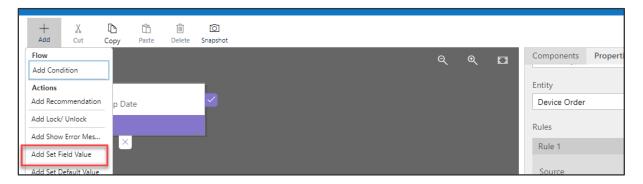


5. In the **Rule 1** section select **Entity** for Source, **Approved Date** for Field, **Contains Data** for Operator and click **Apply**.

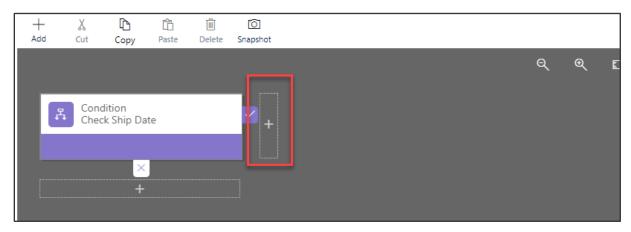
Note: You may need to scroll down to the bottom of all scroll bars to see the Apply button.



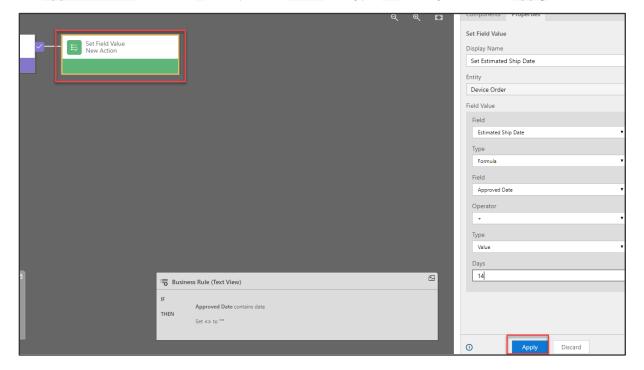
6. Click Add, select Set Field Value.



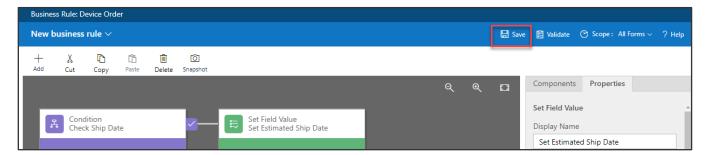
7. Select the True side of the condition.



8. Enter **Set Estimated Ship Date** for Display Name, select **Estimated Ship Date** for Field, **Formula** for Type, **Approved Date** for Field, **+** for Operator, **Value** for Type, **14** for Days, and click **Apply**.



9. Click Save.



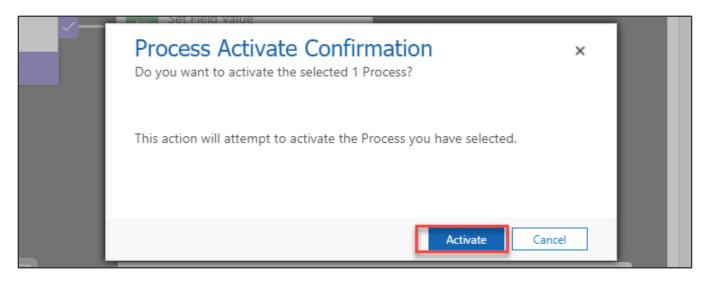
10. Click Validate.



11. Click Activate.



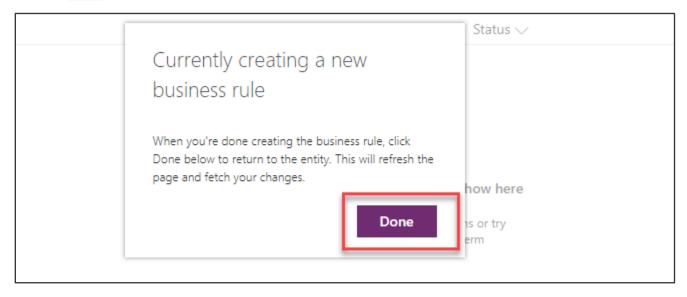
12. Confirm activation.



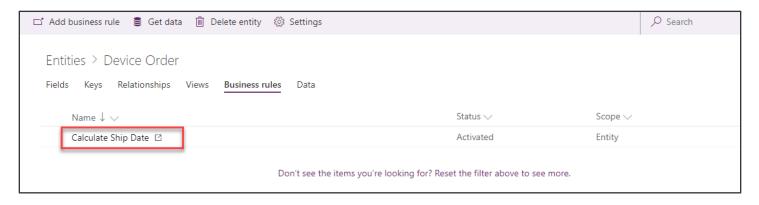
13. Close the process editor browser window or tab.



14. Click Done.



15. Your Common Data Service will have one Business Rule.



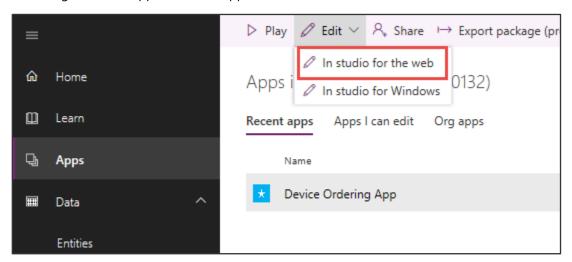
Exercise 3: Connect the data from the Canvas App

Now that you have created the entity to store device order requests let's connect your Device Ordering Canvas app to this entity and add a form to submit device approval requests.

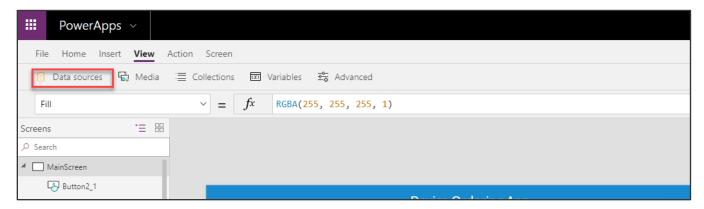
Task 1: Add CDS entity as a data source to the app

Open the device ordering app. Make sure you are opening the version of the app that is in the newly created environment that has the CDS database instance.

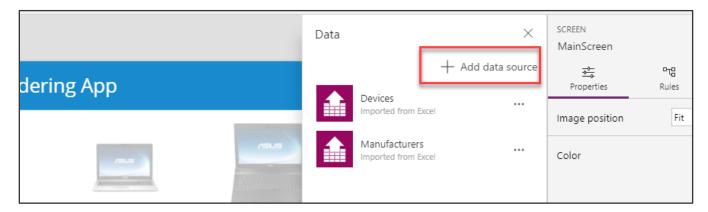
1. Navigate to the App, select the App and click **Edit**.



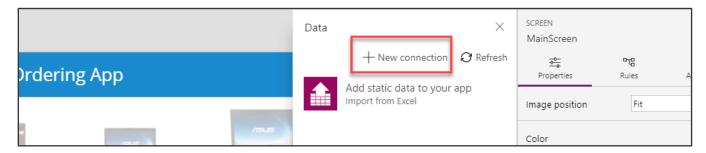
2. Select the **View** tab and then click **Data sources** to display the Data sources property pane to the right of the canvas.



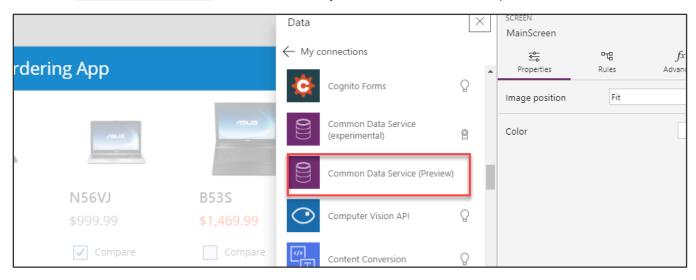
3. Click Add Data Source.



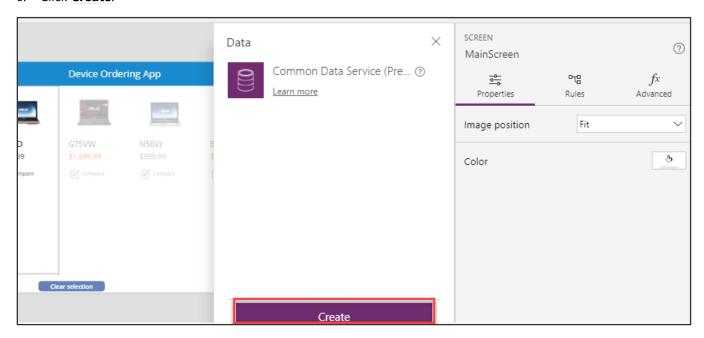
4. Click New Connection.



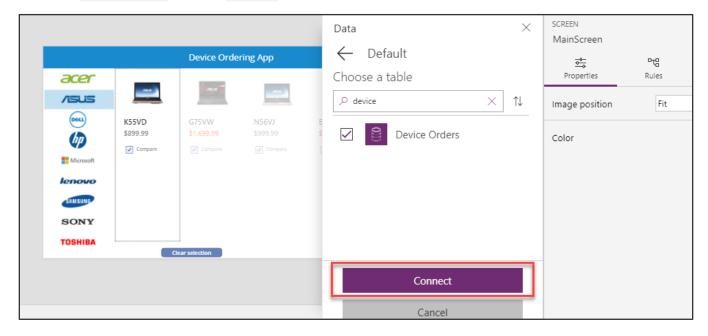
5. Select **Common Data Service**. Double check that you *did not* choose the "experimental" connector.



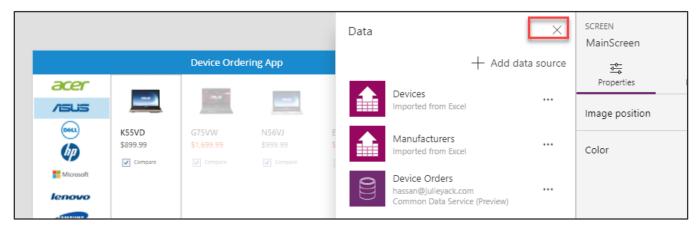
6. Click Create.



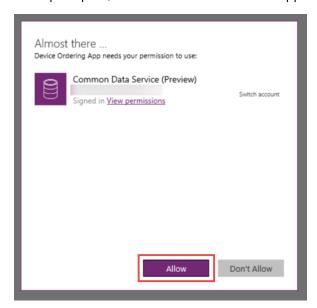
7. Type device in the search text box, this will filter the list of all entities down to just those that contain device. Select **Device Orders** and click **Connect**.



8. Close the Data pane.

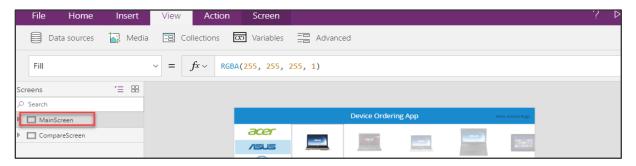


9. If prompted, click Allow to authorize the App to access the Common Data Service.



Task 2: Create the edit form

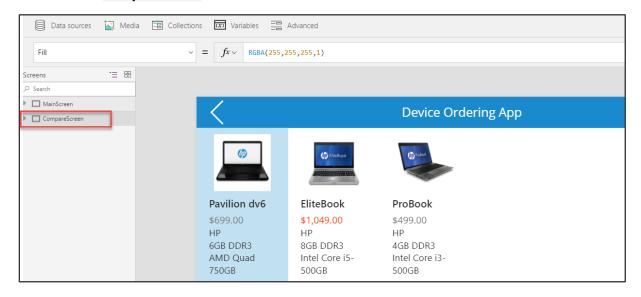
1. Select the MainScreen.



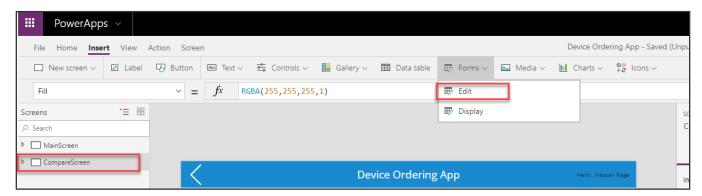
2. Select few devices.



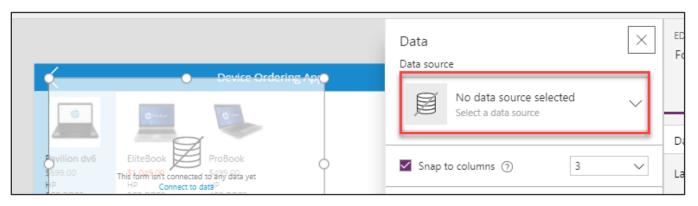
3. Select the **CompareScreen**. You will now have the selected devices.



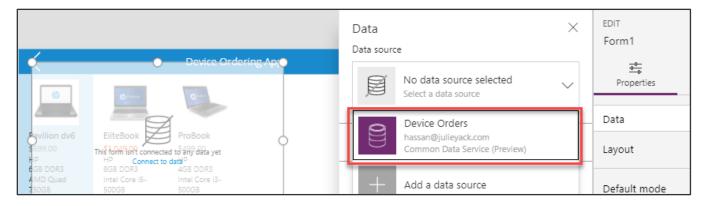
4. Select the Insert tab, click Forms, and select Edit.



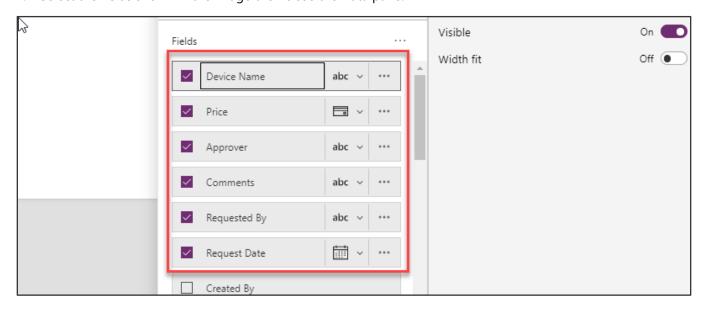
5. Click the **Data source** drop-down in the Data pane on the right.



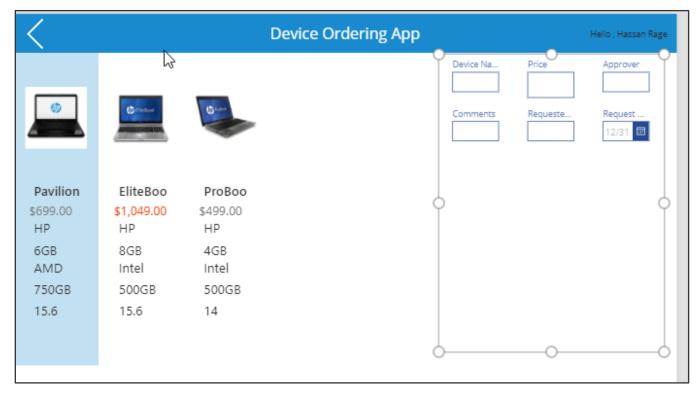
6. Select the **Device Orders** entity as the data source.



7. Select the fields shown in the image then close the Data pane.

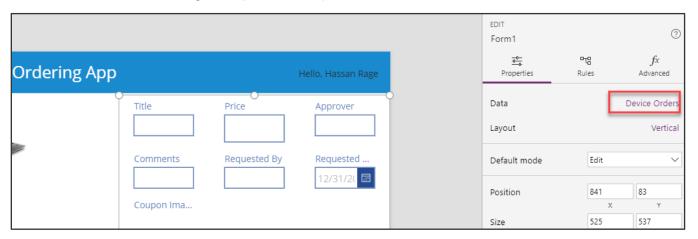


8. Move the form control Form1 to the right of the screen and resize it using the drag handles such that it fits in the empty space. See picture on the right. Make sure there is enough space below the form to add a Submit button.

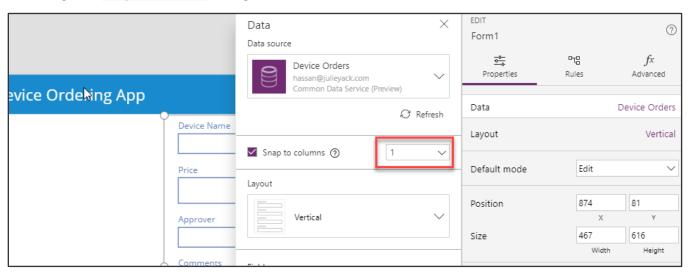


Note: You can always select controls, such as the Form1 control, from the tree view on the left to make sure you are selecting the correct control. To move it make sure you select the Form and not a control within the form.

9. Click the **Data** link on the right to open the Data pane.



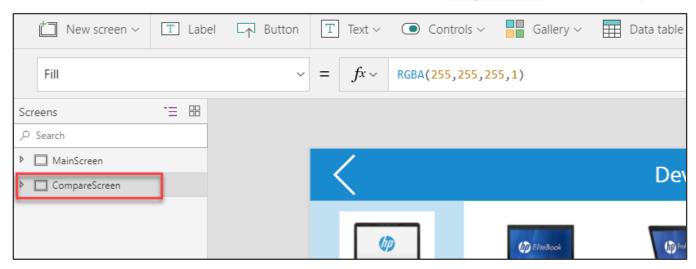
10. Change the **Snap to columns** setting from 3 to 1.



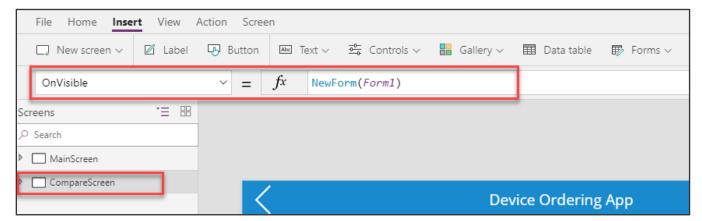
Notice that the form will switch from three columns to one column. Close the Data pane.

For more info on working with multi-column form layouts, see https://powerapps.microsoft.com/tutorials/working-with-form-layout/.

11. To create a new instance of the form when the screen is loaded. Click **CompareScreen** in left tree view pane.



12. Select the **OnVisible** property of the screen, enter: NewForm(Form1)

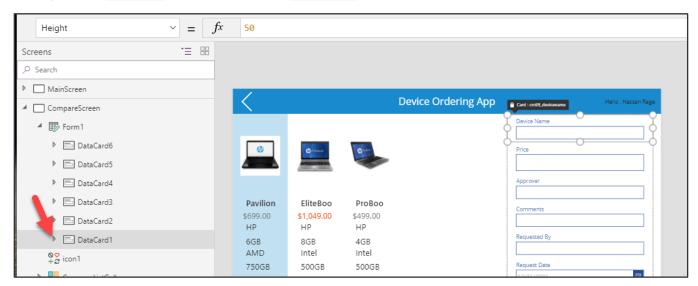


Task 3: Configure the title field

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 the **Title card**. The control name is **DataCard1**.



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.

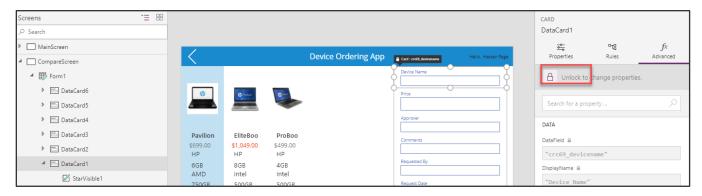
DataCardKey1: This is the label that displays the title of the field.



Select DataCard1 and click Advanced.



3. Click **Unlock** so you can customize the card

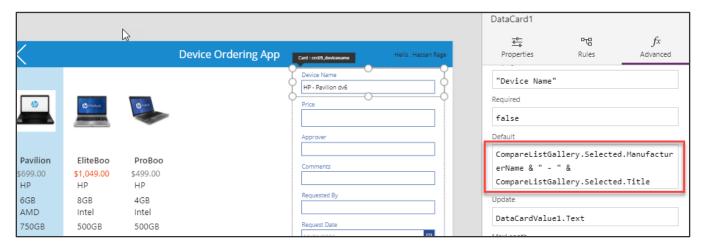


For the next few steps, we will use the Advanced pane to customize control properties within the form, note that you can perform the same customizations using the property drop-down and formula bar in the top left of the studio.

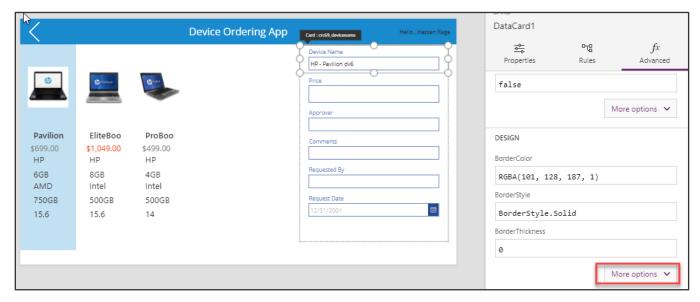
4. Click More Options button in the DATA section of the Advanced pane.



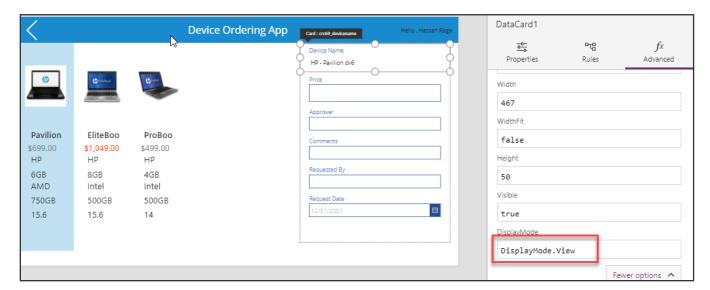
5. To display the selected item in the Title field, set the **Default** property to CompareListGallery.Selected.ManufacturerName & " - " & CompareListGallery.Selected.Title



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.



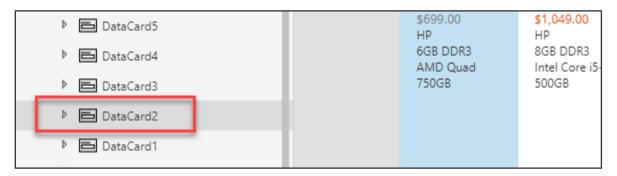
7. Change the **DisplayMode** to **DisplayMode.View**. This will prevent users from changing the value within the text box.



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.

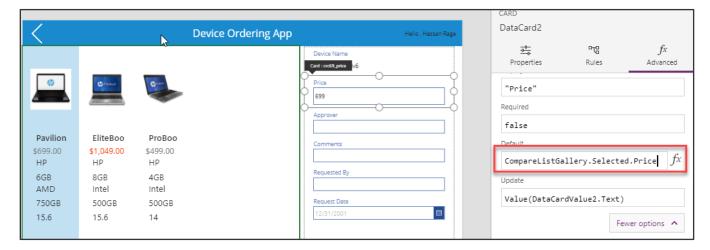
1. Select DataCard2.



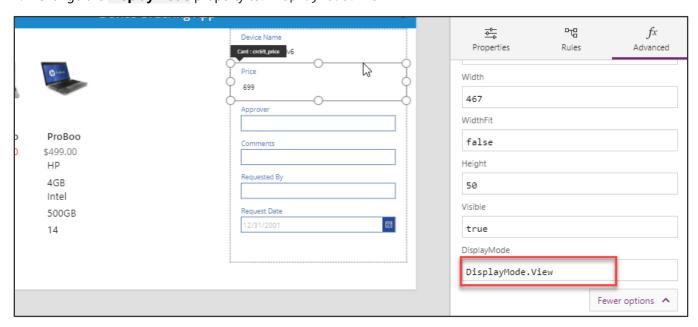
2. Select the Advanced tab and click Unlock.



3. Change the **Default** property to: CompareListGallery.Selected.Price



4. Change the **DisplayMode** property to: DisplayMode.View

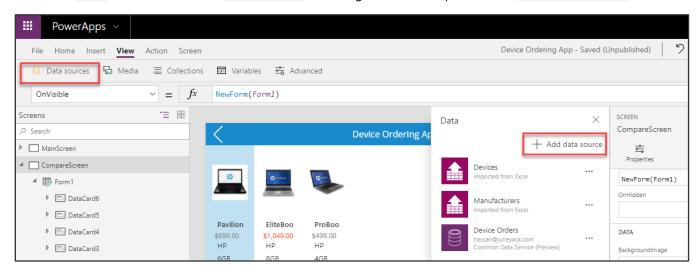


Task 5: Configure the approval field

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/

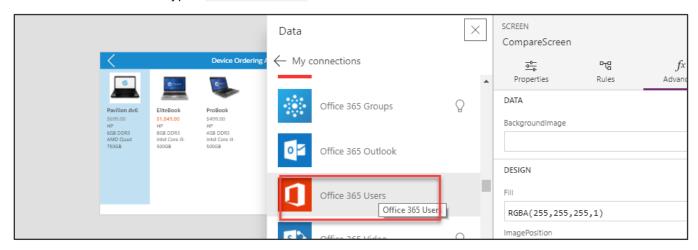
1. Select View in the ribbon, then Data sources. In the right-hand Data pane, select +Add data source.



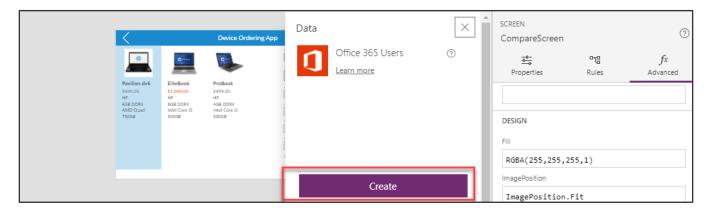
2. Click + New connection.



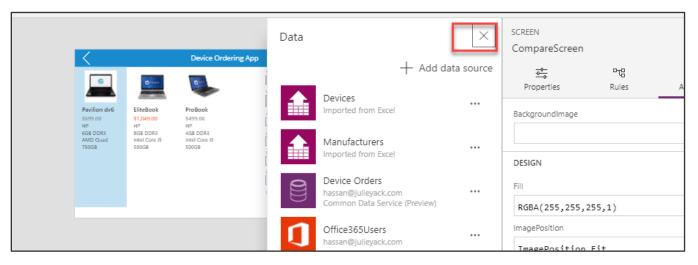
3. Select the connection type - Office 365 Users.



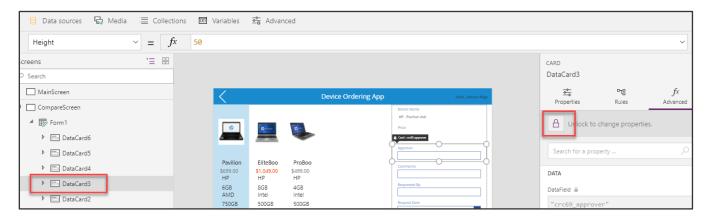
4. Click Create.



5. Close the **Data** pane.



- 6. Select the **Approver card** also known as **DataCard3**.
- 7. Go to the **Advanced pane** and **Unlock**.



8. Set the Default value to: Office365Users.Manager(User().Email).Mail



Note: If you 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 skip this step and simply hard code the approver's email.

This will make an API call at runtime to get the manager's email address of the logged-on user.

In a subsequent step, you will create a Flow that sends an Approval request to the specified Approver. For test purposes, it's a good idea to enter your own email address in the Approver text box when you run the application.

Task 6: Configure the Comment field

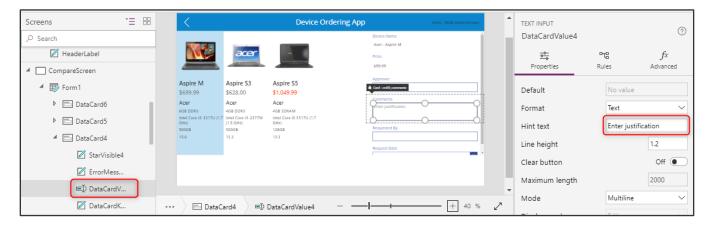
1. Select DataCard4 -> DataCardValue4 and change the Mode to TextMode.MultiLine



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



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



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, also known as DataCard5
- 2. Go to the **Advanced** pane and **Unlock** the card.
- 3. Change the **DisplayMode** property to: DisplayMode.View



Set the **Default** value to User().Email
 This is the email of the currently logged in user



Task 8: Configure the requested date field

Let's set the Request Date to be today's date.

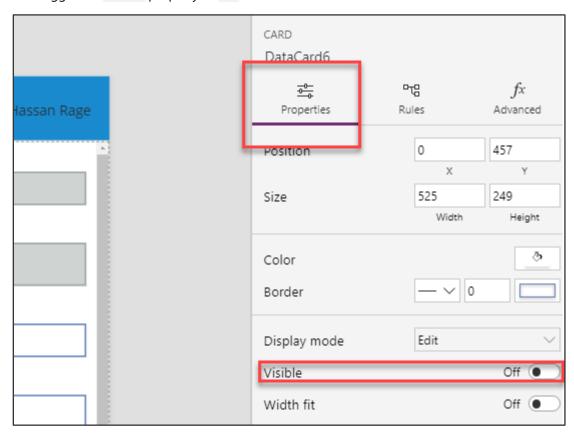
- 1. Select the Request Date card, also known as **DataCard6**.
- 2. Go to the **Advanced pane** and **Unlock the card**.
- 3. Change the **Default** property to Today()



Notice that the date in the calendar control will change to today's date.

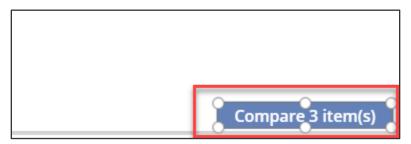
Now we will hide the Request Date card. We don't need to show this field to the user. Since we have included it as part of the form the field will get updated as part of the form submit.

- 4. Go to the **Properties** pane on the right.
- 5. Toggle the Visible property to Off.



Task 9: Add a button to submit the form

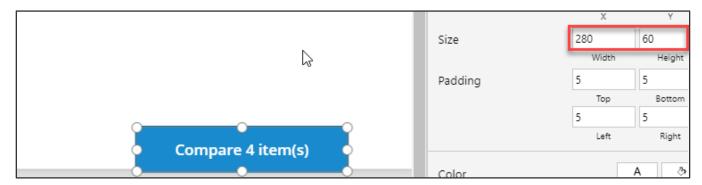
- 1. Select the MainScreen.
- 2. Copy the **Compare button** from the first screen which has the correct color values.



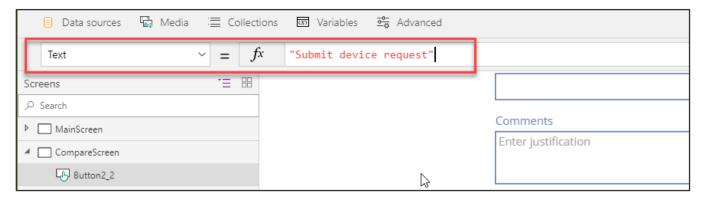
3. Go back to the **CompareScreen** and paste (Ctrl-V) the button.



- 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.



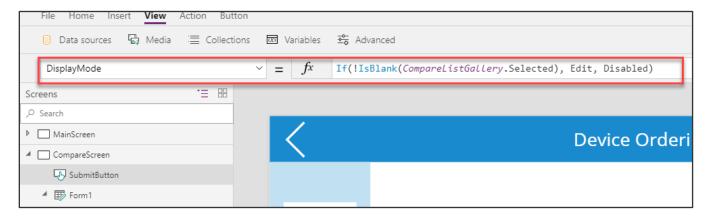
6. Set the button's **Text** property to "Submit device request"



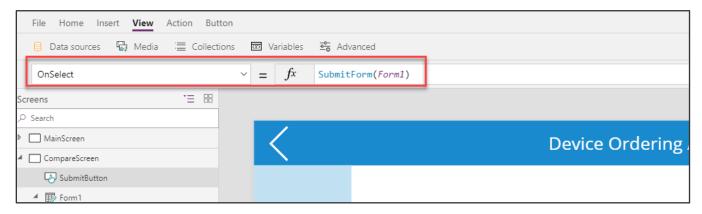
7. Rename the button to **SubmitButton**.



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)



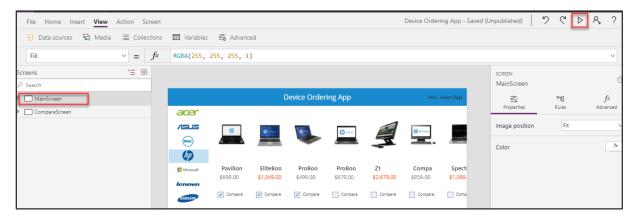
9. Next, we are going to configure what we want to happen when the button is clicked. Set the **OnSelect** property to SubmitForm(Form1)



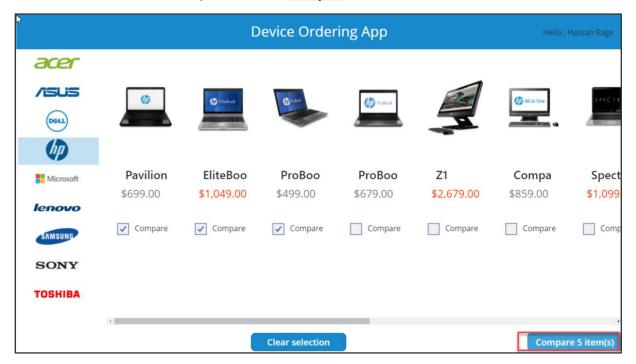
When the button is pressed, the form data will be submitted to the Common Data Service.

Task 10: Test the form

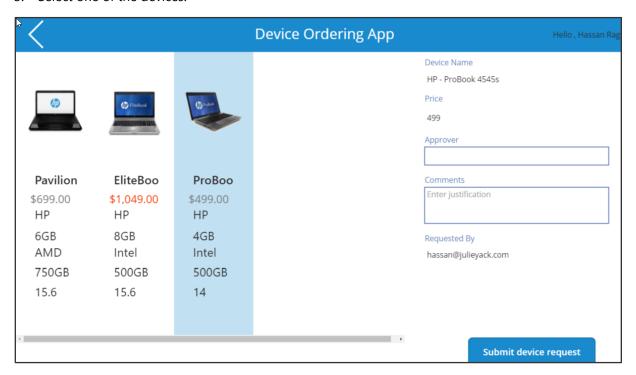
1. Select the **MainScreen** in the left side tree navigation and click Play.



2. Select a few devices to compare. And click **Compare**.

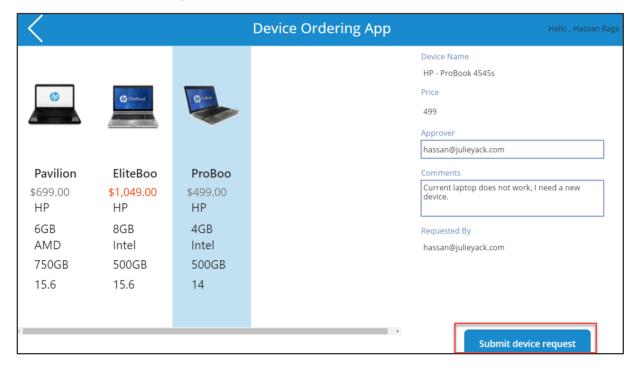


3. Select one of the devices.



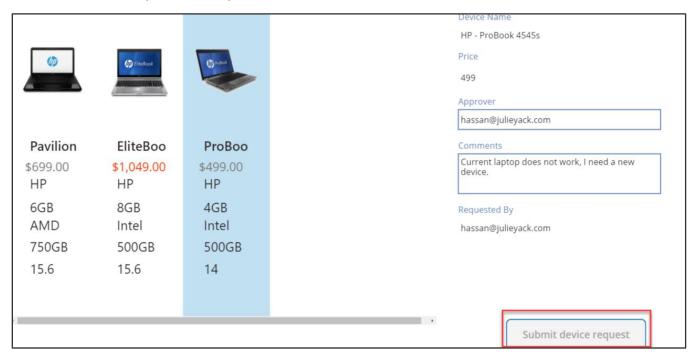
Notice that the Title, Price and Requested By fields are already filled in.

- 4. Change the Approver email to your own email for test purposes
- 5. Add some Comments, such as: "Current laptop does not work, need a new device."
- 6. Click Submit device request.



The button should turn disabled (gray) for a few seconds while it's submitting the request. If it does not do this there is likely an error. Click the X in top right to get back to the design mode.

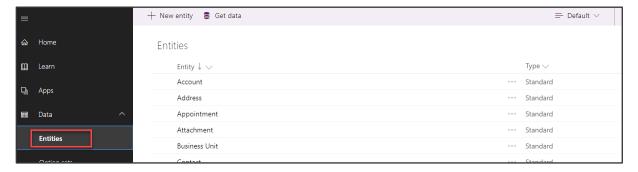
If there is an error, you will see a yellow error icon next to the Submit button, hover over it to check the error.



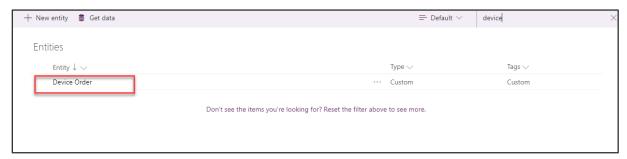
- 7. Exit the preview mode ('X' in top right)
- 8. Save the Application

Task 11: Verify a new item was added to the Device Order entity

- 1. Browse a browser window, go to http://web.powerapps.com.
- Click on Data -> Entities.



3. Select the **Device Order** entity.



4. Change the View to All.



- 5. Select the Data tab.
- 6. You should see a newly added row with your device order details. This may take a few seconds to load.

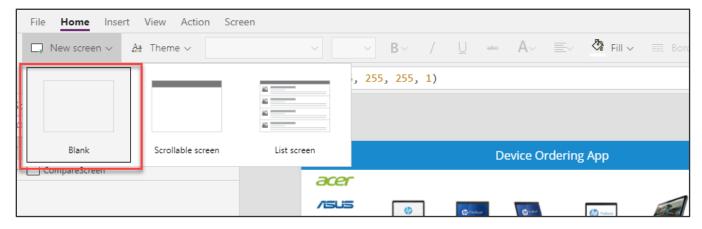


Task 12: [Optional] Navigate to confirmation screen after the Form submit is successful

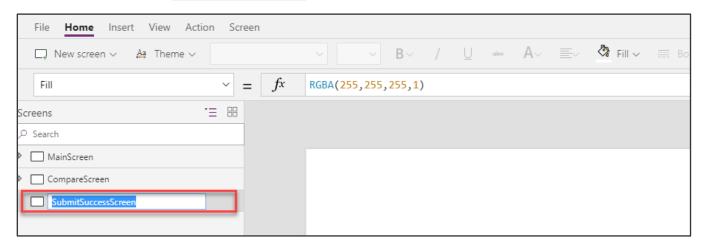
This step is optional, if you're short on time you may skip it and continue on to the next module.

Once the Form has been successfully submitted, it's a good idea to show a confirmation screen and allow the user to navigate back to the main screen.

1. Select Home -> New screen -> Blank

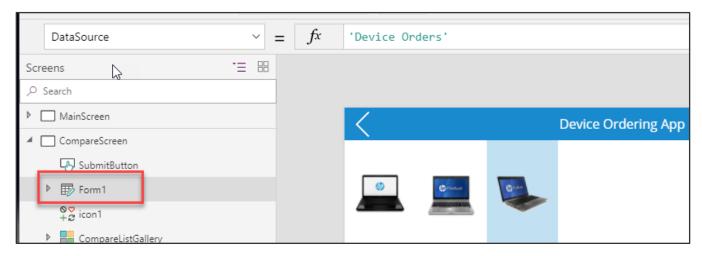


2. Rename the screen to SubmitSuccessScreen

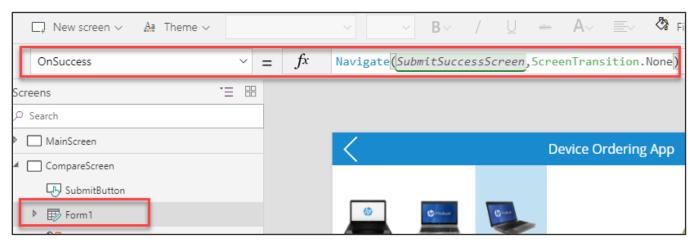


3. Select the CompareScreen.

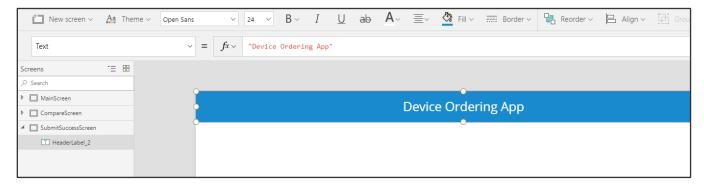
4. Select the Form – you can use the tree view on the left to select **Form1**.



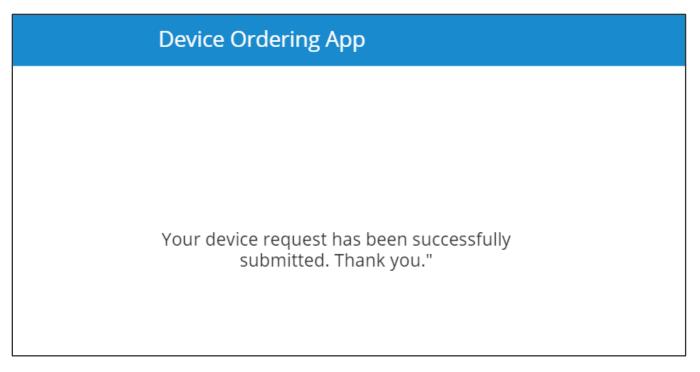
7. Set the **OnSuccess** property to: Navigate(SubmitSuccessScreen, ScreenTransition.None)



- 8. Copy (Ctrl-C) the **header label** from the second screen.
- 9. Go to the to the **SubmitSuccessScreen** and paste the header label.



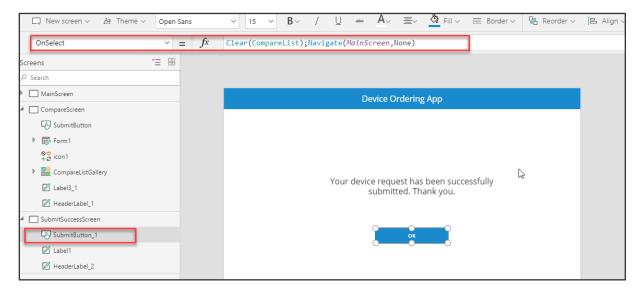
- 10. Add another label in the middle of the screen and set the **Text** to: **"Your device request has been successfully submitted. Thank you."**
- 11. Increase the font size, the size of the label and center the text.



- 12. Add a button and set its Text to: "OK".
- 13. When the button is pressed, let us remove all the items from the CompareList collection and navigate to the first screen.

14. Set the **OnSelect** property of the button to:

Clear(CompareList); Navigate(MainScreen, ScreenTransition. None)



Note: ';' is used a separator when multiple functions are called one after the other. If you are in a locale where ';' is used as a comma-separator, then use a double ';' here (without the single-quotes).

As a further enhancement, you can display details of the device order that was just submitted. A good way to do this is:

Add a Display Form: Insert -> Form -> Display

Configure its data source to point to the 'Device Order' entity

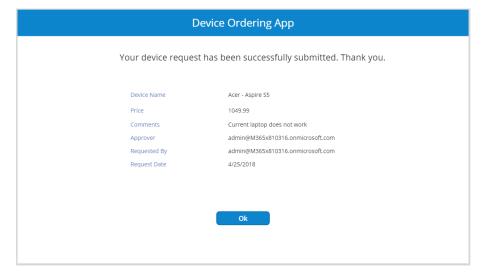
Select the fields to display: Device Name, Price, Comments, Approver, Requested By, Request Date

Change the **Snap to columns** value from 3 to 1

Change the **Layout** from Vertical to Horizontal.

Set form Item property to Form1.LastSubmit

Submit another device order. Verify that the confirmation screen shows the order details.



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 functionalities available in PowerApps, Flow, and the Common Data Service. For an up to date list of learning references, see http://aka.ms/powerapps-resources and http://aka.ms/powerapps-resources and http://aka.ms/powerapps-resources and http://aka.ms/powerapps-resources and http://aka.ms/powerapps-resources and http://aka.ms/flow-resources.

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