

Status and Percent Complete Cascading Drop Down Solution (includes the ability to show/hide data cards based on selected status)

This solution allowed me to not only default to a certain percentage based on Project Status (e.g. New Request = 0%, Completed=100%), but also allowed me to display data cards if certain project statuses were chosen that don't apply to every project (e.g. Cancelled).

Designer	Model Shop	Comments
Project Status		Percentage Complete
New Request		0%

Designer	Model Shop	Comments
Project Status		Percentage Complete
Completed		100%

HOW TO CREATE A CASCADING DROPDOWN MENU

I got the following technique from DeShon Clark's video entitled 2020TIPS: 3 OF 5 | My Cascading Drop-Down Trick for PowerApps Forms Tutorial 2020.

START WITH YOUR DATASOURCES

Primary SharePoint List – The one you display in your gallery

Create the following single line of text columns in your SharePoint list.

Project Status

Single line of text

Percentage Complete

Single line of text

Project Status SharePoint List – The one you display in your form

Create a separate Project Status SharePoint list with 2 single line of text columns. Below is a partial screenshot. As you can see, I added multiple lines for each status according to how many percent complete options I wished to include in my dropdown. The Percent Complete column has to be a single line of text column in order to be compatible with the Status single line of text column otherwise you get an error.

I renamed the Default Title column “Status”. This is important to know for the sake of formulas later.

Tool Design Request Status

Status ↑ ↓	Percent Complete ↓
Approval Pending	25%
Approval Pending	50%
Approval Pending	75%
Cancelled	25%
Cancelled	50%
Cancelled	75%
Completed	100%
In Design	25%
In Design	50%
In Design	75%

CREATE YOUR CASCADING DROPDOWNS AND RECORD THE SELECTED VALUES TO THE PRIMARY LIST

After creating your two column Project Status SharePoint list, add the list as a data source and insert the fields into your form. They will come in as Text Input fields. Do not delete those fields as you will need them to write the selected values back to your primary SharePoint list so they can be displayed in the home screen gallery.

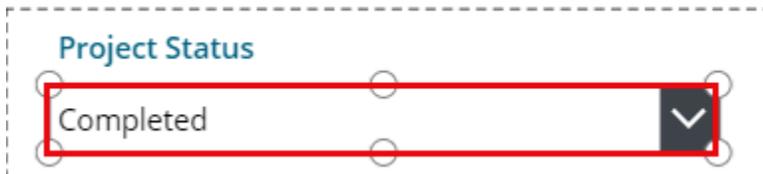
Unlock the data cards and insert a dropdown control over the text input fields. Use the Width, X and Y coordinates to line everything up exactly. Rename the text input fields **vStatus** and **vPercent** respectively. Rename the dropdown controls **ddProjectStatus** and **ddPercentComp** respectively.

Screenshots of the field settings can be found on the following pages. The reason to apply the Distinct function is so you don't end up with repeats in your Status dropdown. The Visible property for the vStatus and vPercent text input fields can be toggled to Off/False when you no longer need to view them.

Side note: To eliminate bounding boxes around the Status and Percent Complete dropdowns in View mode, change the DisplayMode property to each of them to **Parent.DisplayMode**.

Another thing you have to do is adjust the Left cell padding to match the other fields in the form column.

PROJECT STATUS DROP DOWN SETTINGS



Items:

`Distinct('Your Project Status SharePoint List Name',Title).Result`

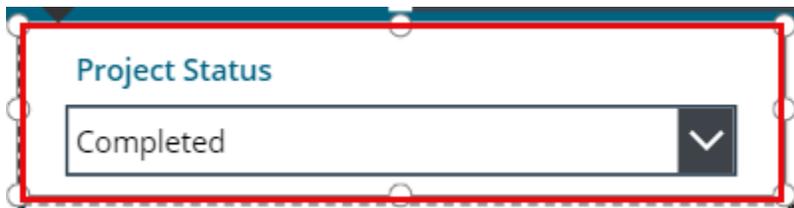
Default:

`Parent.Default`

Text Input Field Default property:

`ddProjectStatus.SelectedText.Value`

PROJECT STATUS DATA CARD SETTINGS



Update property:

`vStatus.Text`

DisplayMode:

`Parent.DisplayMode`

Default:

`ThisItem.'Project Status'`

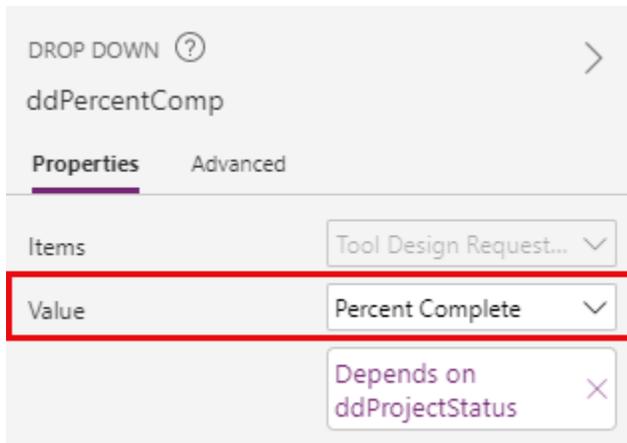
PERCENTAGE COMPLETE DROPDOWN SETTINGS



Items:

`Filter('Your Project Status SharePoint List Name',Title=ddProjectStatus.SelectedText.Value)`

Note that the Value in the properties pane, may default to some other value. If that happens, select Percent Complete from the Value dropdown menu.



Default:

`Parent.Default`

PERCENTAGE COMPLETE DATA CARD SETTINGS



Update property:

`vPercentComp.Text`

DisplayMode:

`Parent.DisplayMode`

Default:

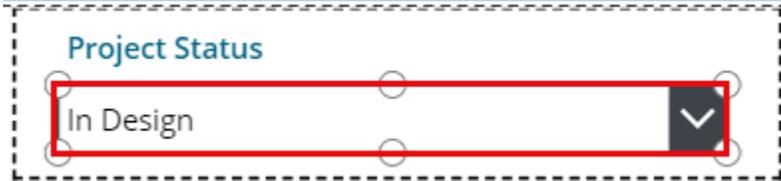
`ThisItem.'Percentage Complete'`

Text Input Field Default property:

`ddPercentComp.SelectedText.Value`

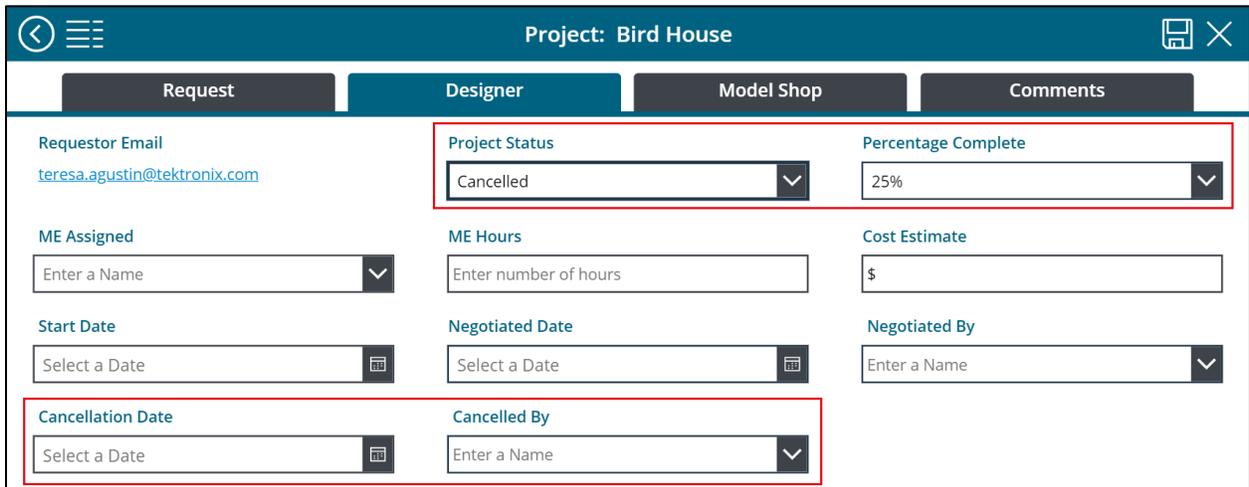
SHOW/HIDE FIELDS BASED ON STATUS SELECTED FROM DROPDOWN MENU

In order to make the On Hold, Cancelled and Completed fields only show if that status is chosen from the dropdown, I renamed the Status dropdown control to `ddProjectStatus` and then set the Visible property for each data card to the following values as seen below.



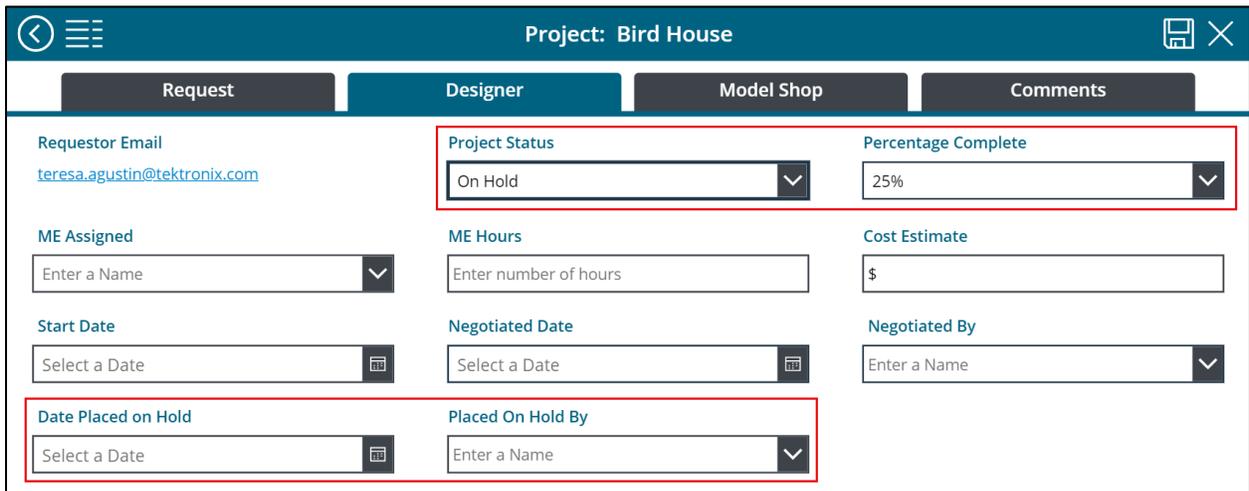
Cancellation Date and Cancelled By Data Cards Visible property:

`ddProjectStatus.SelectedText.Value="Cancelled"`

A screenshot of the 'Project: Bird House' data card. The 'Designer' tab is active. The 'Project Status' dropdown is set to 'Cancelled'. A red box highlights the 'Project Status' and 'Percentage Complete' fields. Another red box highlights the 'Cancellation Date' and 'Cancelled By' fields. Other fields include 'Requestor Email' (teresa.agustin@tektronix.com), 'ME Assigned', 'ME Hours', 'Start Date', 'Negotiated Date', 'Cost Estimate', and 'Negotiated By'.

Date Placed on Hold and Placed on Hold By Data Cards Visible property:

`ddProjectStatus.SelectedText.Value="On Hold"`

A screenshot of the 'Project: Bird House' data card. The 'Designer' tab is active. The 'Project Status' dropdown is set to 'On Hold'. A red box highlights the 'Project Status' and 'Percentage Complete' fields. Another red box highlights the 'Date Placed on Hold' and 'Placed On Hold By' fields. Other fields include 'Requestor Email' (teresa.agustin@tektronix.com), 'ME Assigned', 'ME Hours', 'Start Date', 'Negotiated Date', 'Cost Estimate', and 'Negotiated By'.

Completion Date and Marked Complete By Data Cards Visible property:

`ddProjectStatus.SelectedText.Value="Completed"`

100% is the only corresponding value for the Completed status which is nice for the person completing the form as they don't have to manually select it and you don't run the risk of them accidentally forgetting it.

The screenshot shows a SharePoint form for a project named "Bird House". The form has four tabs: "Request", "Designer", "Model Shop", and "Comments". The "Designer" tab is active. The form contains several data cards. A red box highlights the "Project Status" dropdown menu, which is set to "Completed", and the "Percentage Complete" dropdown menu, which is set to "100%". Another red box highlights the "Completion Date" date picker and the "Marked Complete By" person picker.

DATE AND PERSON FIELD SETTINGS

All of the date and person fields in the screenshots above are columns in my primary SharePoint list.

Date Picker Field

I chose not to display any date in these fields. The InputTextPlaceholder property is set to "Select a Date". The DefaultDate is set to Parent.Default.

A close-up of the "Completion Date" date picker field. The field is highlighted with a red border and contains the text "Select a Date" and a date picker icon.

People Picker Field

The InputTextPlaceholder property is set to "Enter a Name". DefaultSelectedItems is set to Parent.Default.

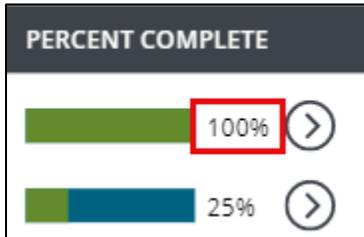
A close-up of the "Marked Complete By" person picker field. The field is highlighted with a red border and contains the text "Enter a Name" and a person picker icon.

HOME SCREEN GALLERY PERCENT COMPLETE BAR AND TEXT FIELD

Percent Complete Label

Percentage Complete Text property:

`ThisItem.'Percentage Complete'`



Percent Complete Bar

If you wish to show a graphical representation of the percent complete in your gallery, insert a rectangle, assign it a Fill color and set the Width set to a static 100.

Insert another rectangle on top, select a Fill color and change the Width property of the green bar to:

`(ThisItem.'Percentage Complete'/2)*200`