

# Building PowerApps & Flows for SharePoint Online



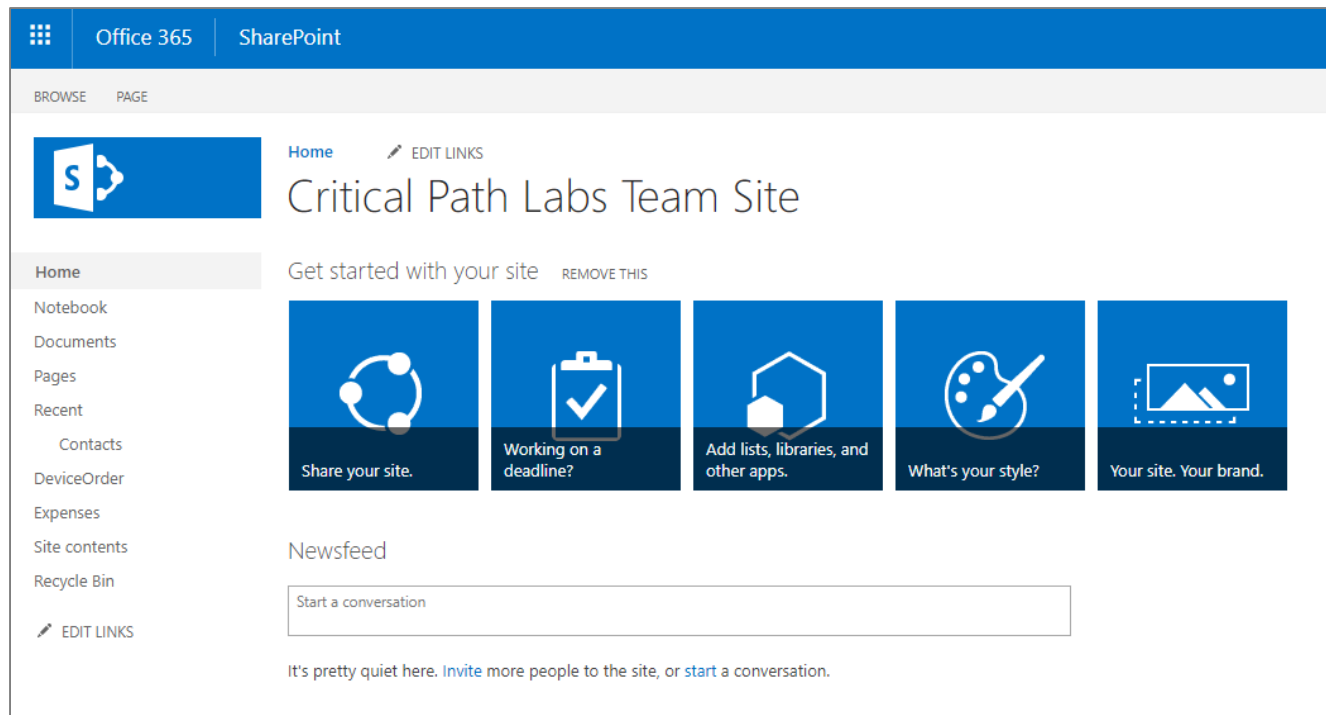
# Agenda

- SharePoint Online and the Modern UI Experience
- Building Apps to Add and Edit SharePoint List Items
- Customizing SharePoint List Forms



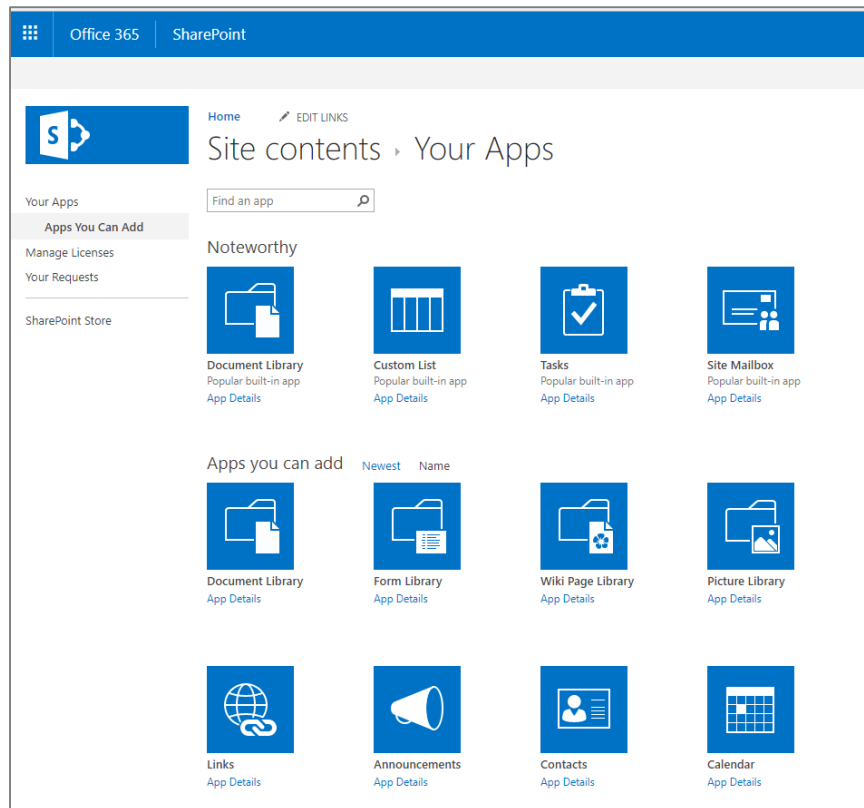
# SharePoint Online

- Supports the creation of Team sites
  - Microsoft is in the process modernizing the SharePoint UI
  - Older user experience is known as "classic UI"
  - Newer user experience is known as "modern UI"



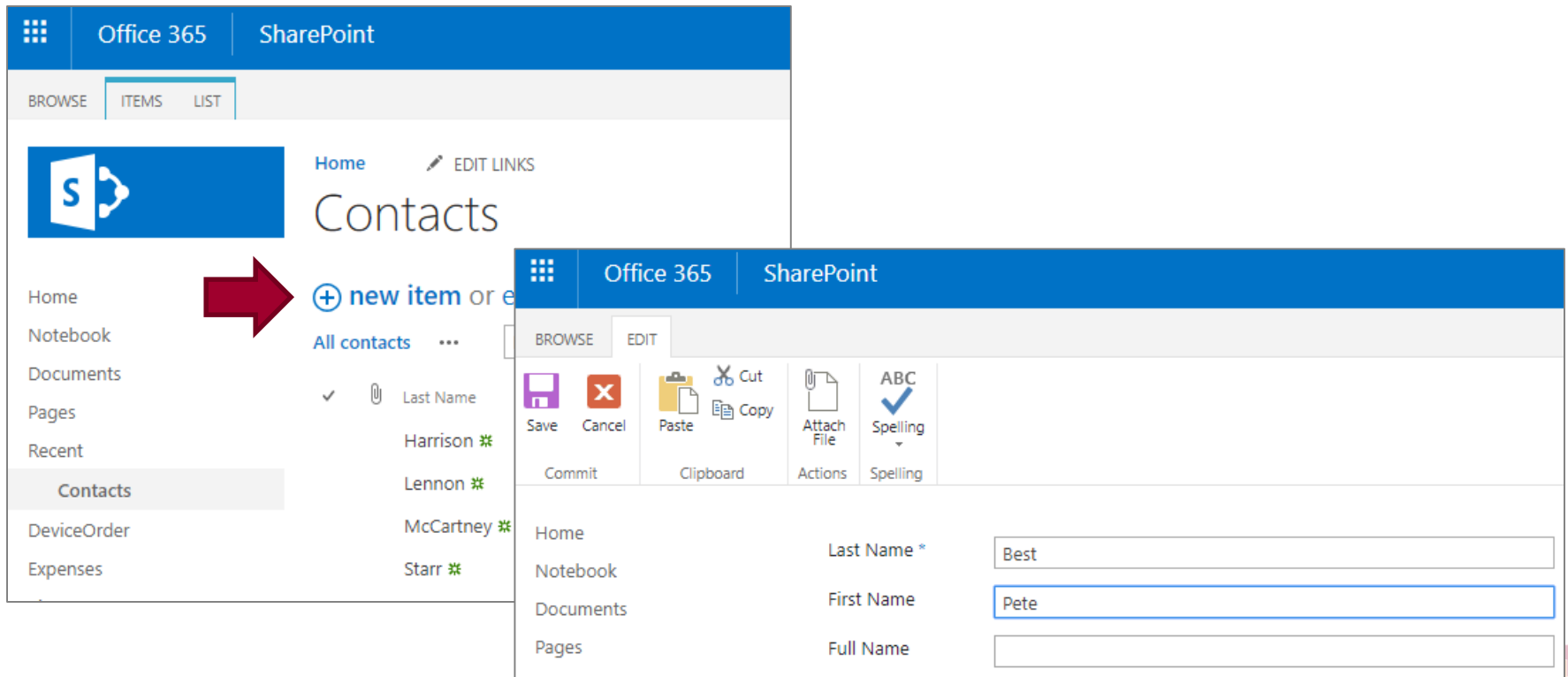
# Creating Lists

- Many list types are available when creating new list
  - Many familiar list types are based on classic UI
  - Custom list type and document library support modern UI



# Classic List Experience

- Classic UI introduced in SharePoint 2013
  - Used for certain list types in SharePoint Online
  - Used for all lists in SharePoint on-premises



# Modern Lists in SharePoint Online

- Created when using Custom List type
  - Provides support for PowerApps and Flow

The screenshot displays the SharePoint Online interface for the 'Critical Path Labs Team Site'. A red arrow points to the '+ New' button in the top navigation bar. The 'Expenses' list is shown with the following data:

Expense	Category	Date	Amount
Verizon - Telephone and Internet	Operations	1/1/2018	\$923.00
Electricity Bill	Operations	2/5/2018	\$338.00
Google Ad Words	Marketing	2/15/2018	\$428.32
Printer Paper	Office Supplies	3/1/2018	\$480.00
Azure HDInsight Subscription	Research & Development	3/15/2018	\$500.00

The 'New item' form on the right shows the following fields:

- Expense \***: Bottled water
- Category**: Office Supplies
- Date**: 3/27/2018
- Amount**: 24.95
- Attachments**: Add attachments

Buttons at the bottom of the form include 'Save' and 'Cancel'.







**DEMO**

# **Creating a List in SharePoint Online with the Modern UI**

# Agenda

- ✓ SharePoint Online and the Modern UI Experience
- Building Apps to Add and Edit SharePoint List Items
- Customizing SharePoint List Forms





# SharePoint List

- You can generate app from SharePoint list
  - Users can manage items in app for SharePoint list
- By default, the app will have 3 screens:
  - **BrowseScreen1** - browse through all records in the list
  - **DetailsScreen1** - view all fields for a specific record
  - **EditScreen1** - create or edit a record
- Customize these screens based on your needs
- Not all columns are supported



# Supported/Unsupported Columns

Column type	Support	Default cards
Single line of text	Yes	View text
Multiple lines of text	Yes	View text
Choice	Yes (single values only)	View lookup
Number	Yes	View percentage View rating View text
Currency	Yes	View percentage View rating View text
Date and Time	Yes	View text
Lookup	Yes (single values only)	View lookup Edit lookup
Boolean (Yes/No)	Yes	View text View toggle



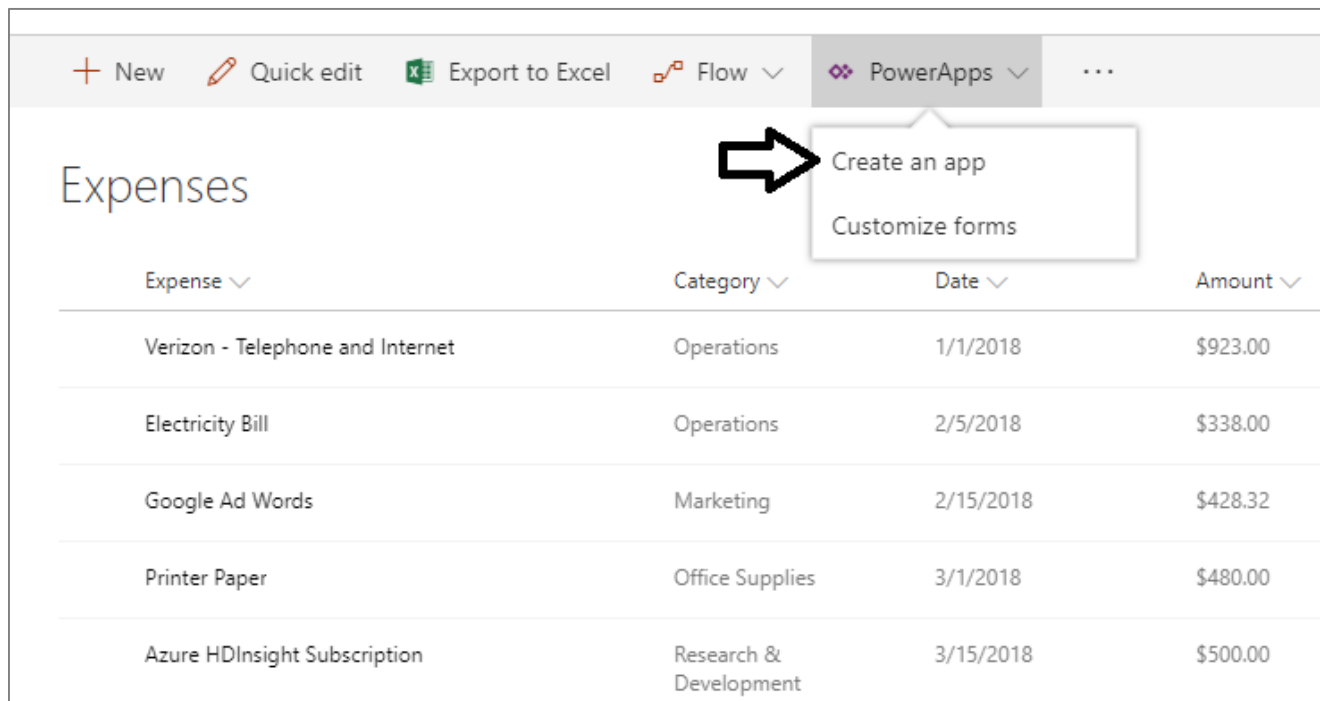
# Supported/Unsupported Columns

Column type	Support	Default cards
Person or Group	Yes (single values only)	View lookup Edit lookup
Hyperlink	Yes	View URL View text
Picture	Yes (read-only)	View image View text
Calculated	Yes (read-only)	
Task Outcome	No	
External data	No	
Managed Metadata	Yes (read-only)	
Rating	No	



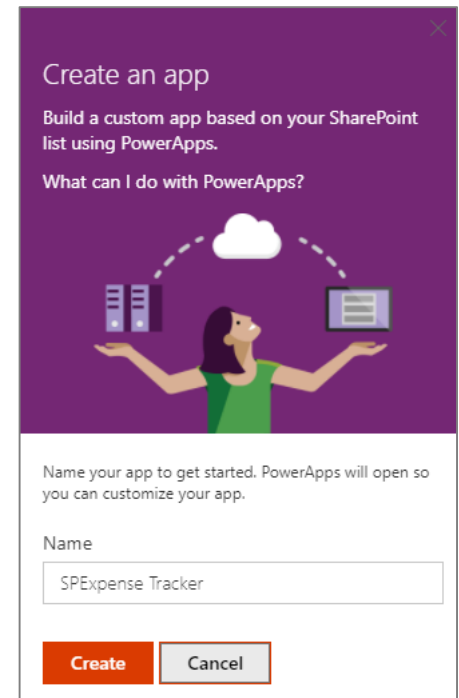
# Creating an App from a Modern List

- Modern UI provides commands to create apps



The screenshot shows the 'Expenses' list in the SharePoint Modern UI. The top navigation bar includes 'New', 'Quick edit', 'Export to Excel', 'Flow', and 'PowerApps'. The 'PowerApps' menu is open, showing 'Create an app' and 'Customize forms'. A large black arrow points to the 'Create an app' option. Below the menu is a table with the following data:

Expense	Category	Date	Amount
Verizon - Telephone and Internet	Operations	1/1/2018	\$923.00
Electricity Bill	Operations	2/5/2018	\$338.00
Google Ad Words	Marketing	2/15/2018	\$428.32
Printer Paper	Office Supplies	3/1/2018	\$480.00
Azure HDInsight Subscription	Research & Development	3/15/2018	\$500.00



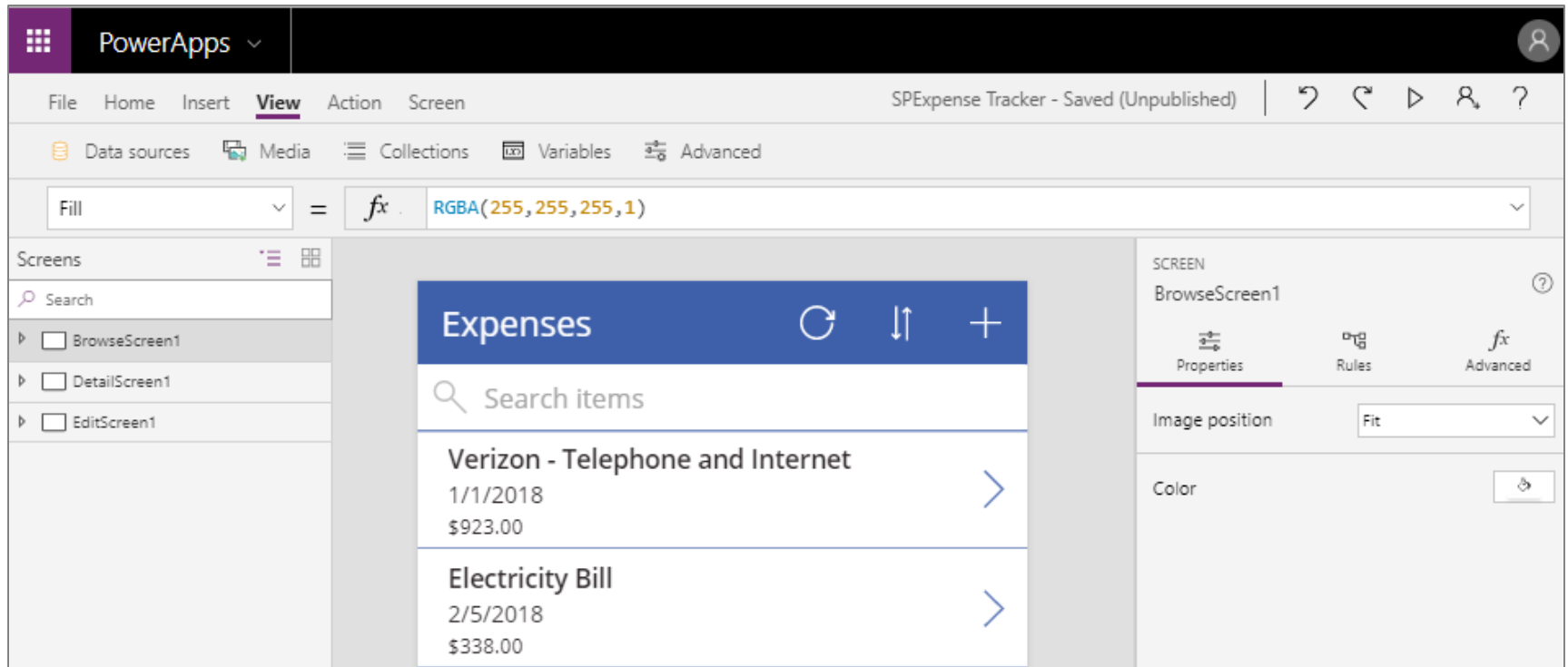
The 'Create an app' dialog box is shown. It has a purple header with the title 'Create an app' and a close button. The text inside says: 'Build a custom app based on your SharePoint list using PowerApps.' and 'What can I do with PowerApps?'. Below this is an illustration of a person holding up a tablet with a cloud and server icons above it. The dialog then asks 'Name your app to get started. PowerApps will open so you can customize your app.' and has a text input field with 'SPExpense Tracker' entered. At the bottom are 'Create' and 'Cancel' buttons.





# The App is Generated Automatically

- It provides three basic screens
  - Browse screen
  - Detail screen
  - Edit screen





**DEMO**

# **Using PowerApps to create an App from a Modern SharePoint List**


# Agenda






- ✓ SharePoint Online and the Modern UI Experience
- ✓ Building Apps to Add and Edit SharePoint List Items
- Customizing SharePoint List Forms





# Forms for a SharePoint Lists

Home

 Critical Path Labs Team Site

 Edit  Share  Copy link  Delete  Flow ▾ ⋮

## Expenses

Expense ▾	Category ▾
Verizon - Telephone and Internet	Operations
 Electricity Bill  ⋮	Operations
Google Ad Words	Open
Printer Paper	Edit

**View Form** →

**Edit Form** →





# Standard View Form for Modern List

Home

CP

Critical Path Labs Team Site

Edit

Share

Copy link

Delete

Flow

Expenses

Expense	Category	Date	Amount
Verizon - Telephone and Internet	Operations	1/1/2018	\$923.00
Electricity Bill	Operations	2/5/2018	\$338.00
Google Ad Words	Marketing	2/15/2018	\$428.32
Printer Paper	Office Supplies	3/1/2018	\$480.00
Azure HDInsight Subscription	Research & Development	3/15/2018	\$500.00

Edit all

Copy link

Customize

Electricity Bill

Expense \*

Electricity Bill

Category

Operations

Date

2/5/2018

Amount

\$338.00

Attachments

Add or remove attachments



# Standard Edit Form for Modern List

Home

CP

Critical Path Labs Team Site

Edit

Share

Copy link

Delete

Flow

## Expenses

Expense	Category	Date	Amount
Verizon - Telephone and Internet	Operations	1/1/2018	\$923.00
Electricity Bill	Operations	2/5/2018	\$338.00
Google Ad Words	Marketing	2/15/2018	\$428.32
Printer Paper	Office Supplies	3/1/2018	\$480.00
Azure HDInsight Subscription	Research & Development	3/15/2018	\$500.00

Electricity Bill

**Expense \***  
Electricity Bill

**Category**  
Operations

**Date**  
2/5/2018

**Amount**  
338

**Attachments**  
Add attachments


Save





Cancel



# Customizing SharePoint List Forms

Home

 Critical Path Labs Team Site

+ New    Quick edit    Export to Excel    Flow ▾    PowerApps ▾   ...

Expenses

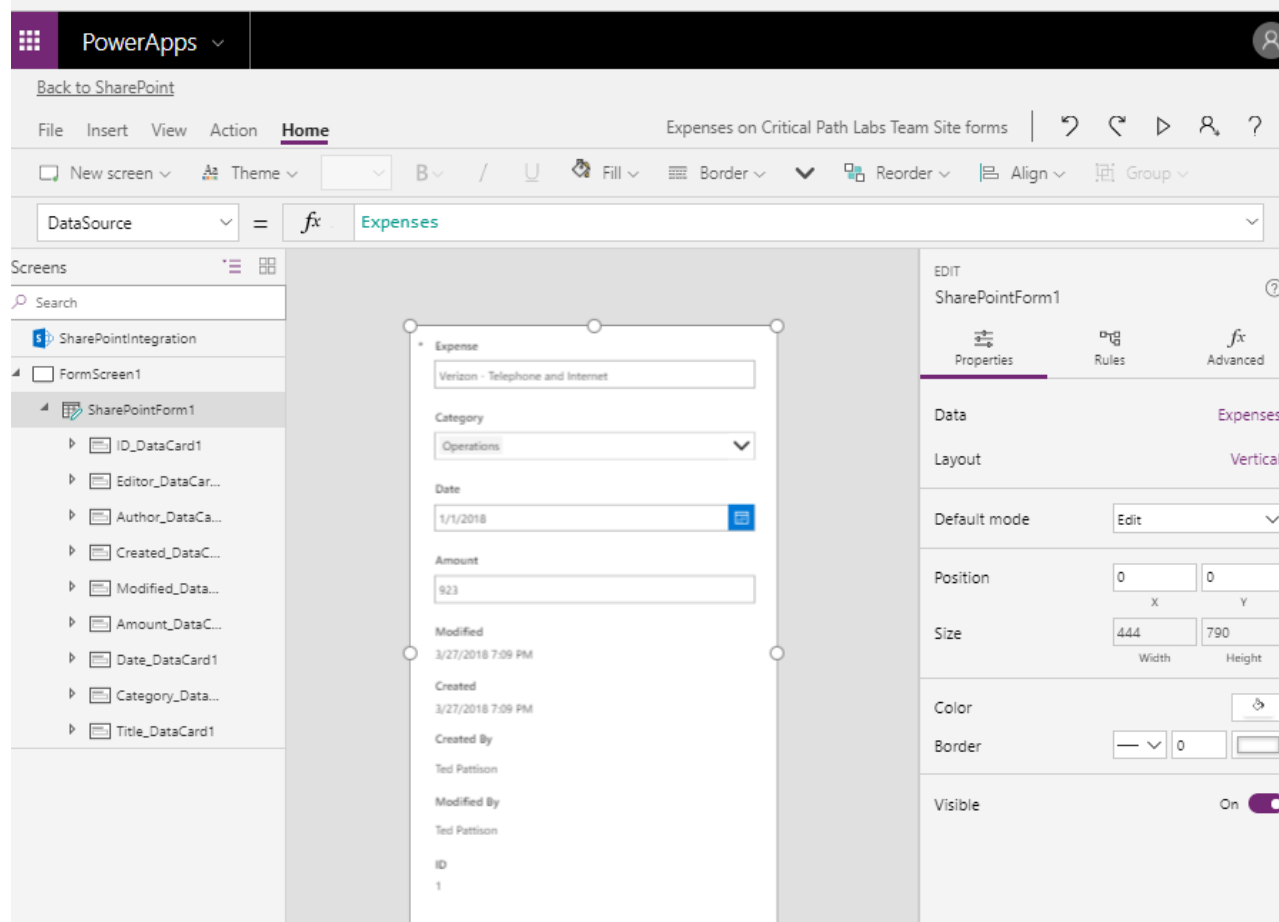
Create an app  
Customize forms

Expense ▾	Category ▾	Date ▾	Amount ▾
Verizon - Telephone and Internet	Operations	1/1/2018	\$923.00
Electricity Bill	Operations	2/5/2018	\$338.00
Google Ad Words	Marketing	2/15/2018	\$428.32



# App Created with a Single Screen

- It contains form





# Customizing the Form

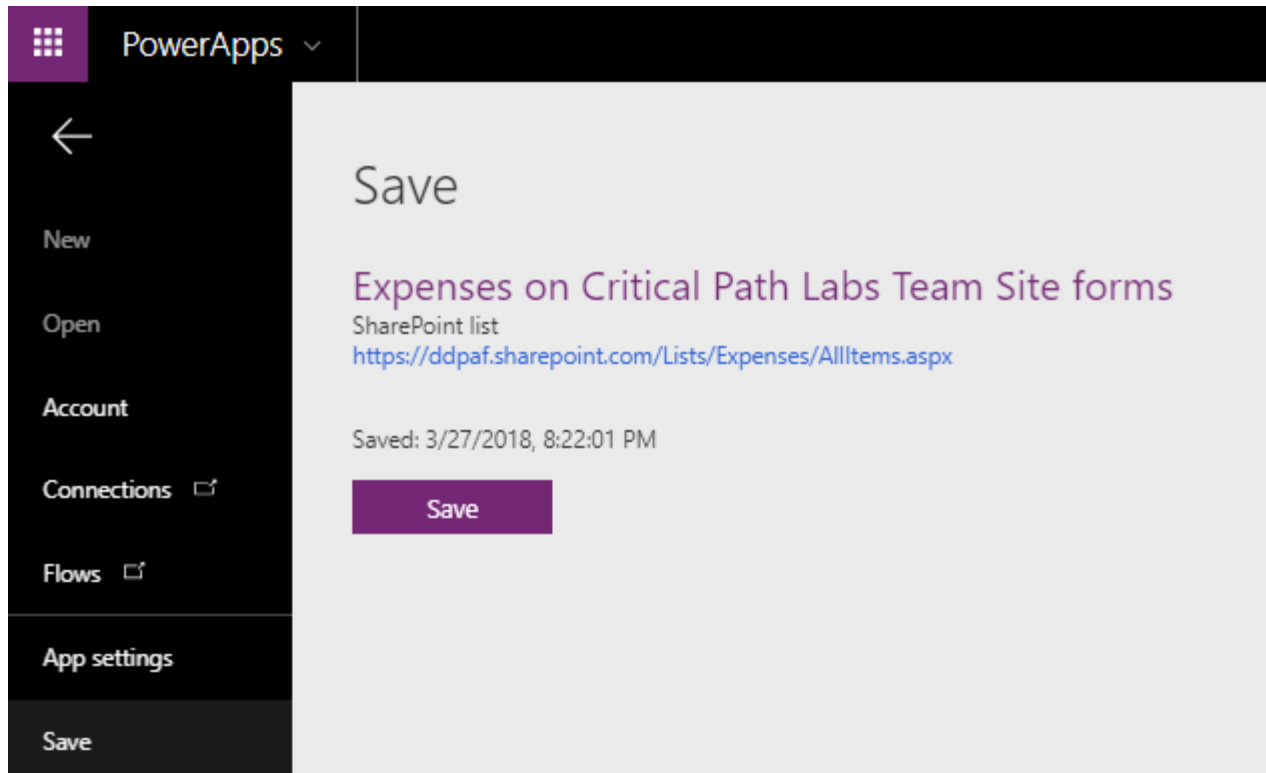
The screenshot displays the Microsoft PowerApps interface for customizing a form. The top navigation bar includes the PowerApps logo and a dropdown menu. Below it, a ribbon shows tabs for File, Insert, View (selected), Action, and Home. The main workspace is titled 'Expenses on Critical Path Labs Team Site forms - Saved (Unpu'.

The interface is divided into several panes:

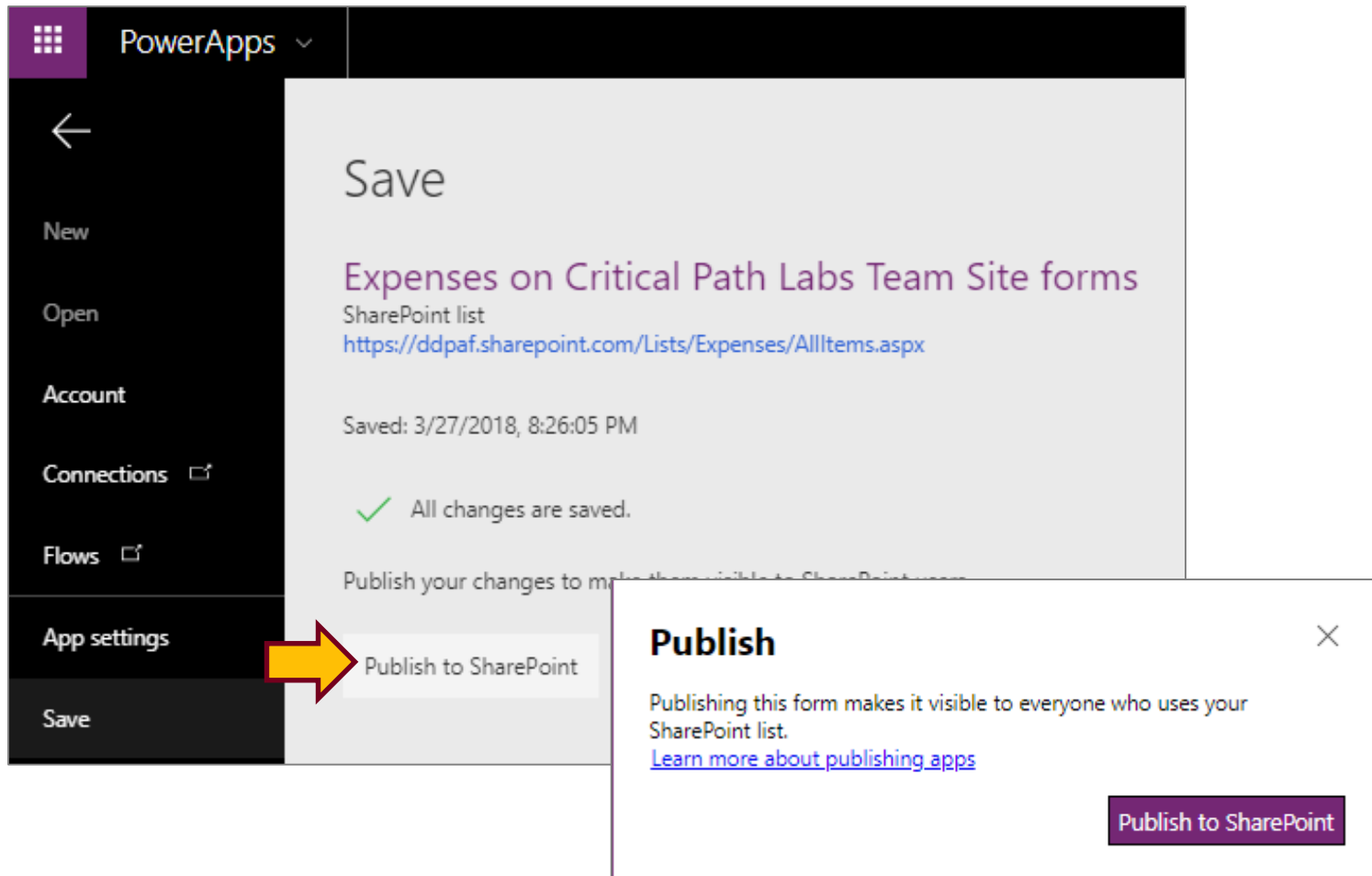
- Screens Pane (Left):** Lists the components of the app, including 'SharePointIntegration', 'FormScreen1', 'Label1', and 'SharePointForm1'. 'SharePointForm1' is expanded, showing sub-components like 'ID\_DataCard1', 'Amount\_DataCard1', 'Date\_DataCard1', 'Title\_DataCard1', and 'DataCard2'.
- Form Canvas (Center):** Displays a custom form titled 'This is a Custom Form'. The form contains the following fields:
  - ID:** A text field with the value '1'.
  - Expense:** A text field with the value 'Verizon - Telephone and Internet'.
  - Category:** A dropdown menu with 'Operations' selected.
  - Date:** A date picker showing '1/1/2018'.
  - Amount:** A text field with the value '923'.
- Data Pane (Center-Right):** Shows the data source 'Expenses' with the email 'Student@DDPAF.onmicrosoft.com' and 'SharePoint'. It includes options to 'Edit data' and 'Refresh'. Below this, the 'Layout' is set to 'Vertical'.
- Fields Pane (Bottom-Right):** Lists the fields included in the form:
  - ☒ ID (Value: 123)
  - ☒ Expense (Value: abc)
  - ☒ Category (Value: [Grid Icon])
  - ☒ Date (Value: [Calendar Icon])
  - ☒ Amount (Value: 123)
  - ☐ Modified
- Properties Pane (Far Right):** Shows the properties for 'SharePointForm1'. The 'Data' source is 'Expenses', the 'Layout' is 'Vertical', and the 'Default mode' is 'Edit'. The 'Position' is set to (0, 60) and the 'Size' is 444x730. The 'Color' and 'Border' are also configurable, and the 'Visible' property is set to 'On'.



# Saving the Customized Form



# Publishing the Form Back to SharePoint



# Editing Items using a Customized Form

Home

CP

Critical Path Labs Team Site

Edit

Share

Copy link

Delete

Flow

## Expenses

Expense	Category	Date
Verizon - Telephone and Internet	Operations	1/1/2018
<div>✓</div> Electricity Bill	Operations	2/5/2018
Google Ad Words	Marketing	2/15/2018
Printer Paper	Office Supplies	3/1/2018
Azure HDInsight Subscription	Research & Development	3/15/2018

Save

Cancel

Copy link

Customize

This is a Custom Form

ID

2

\* Expense

Electricity Bill

Category

Operations

Date

2/5/2018

Amount

338







**DEMO**

# Customizing SharePoint List Forms

# Summary

- ✓ SharePoint Online and the Modern UI Experience
- ✓ Building Apps to Add and Edit SharePoint List Items
- ✓ Customizing SharePoint List Forms

