

Building PowerApps for SharePoint Online



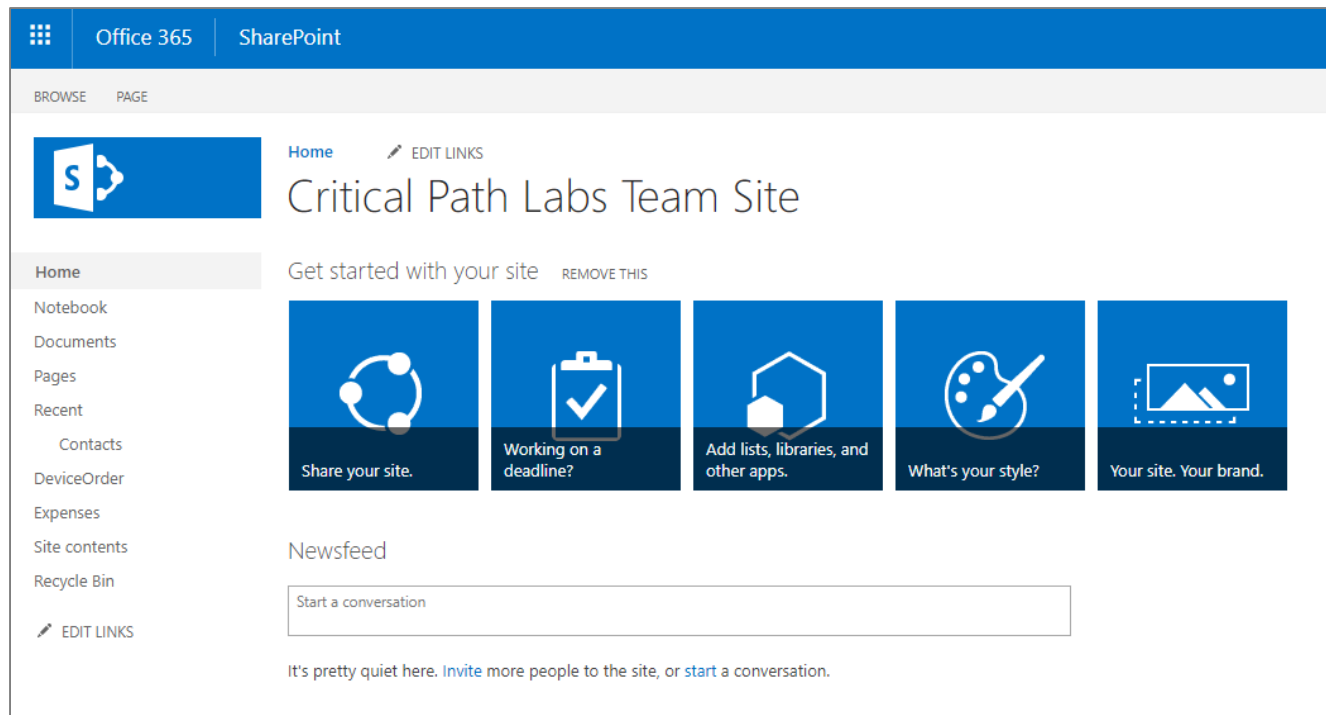
Agenda

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



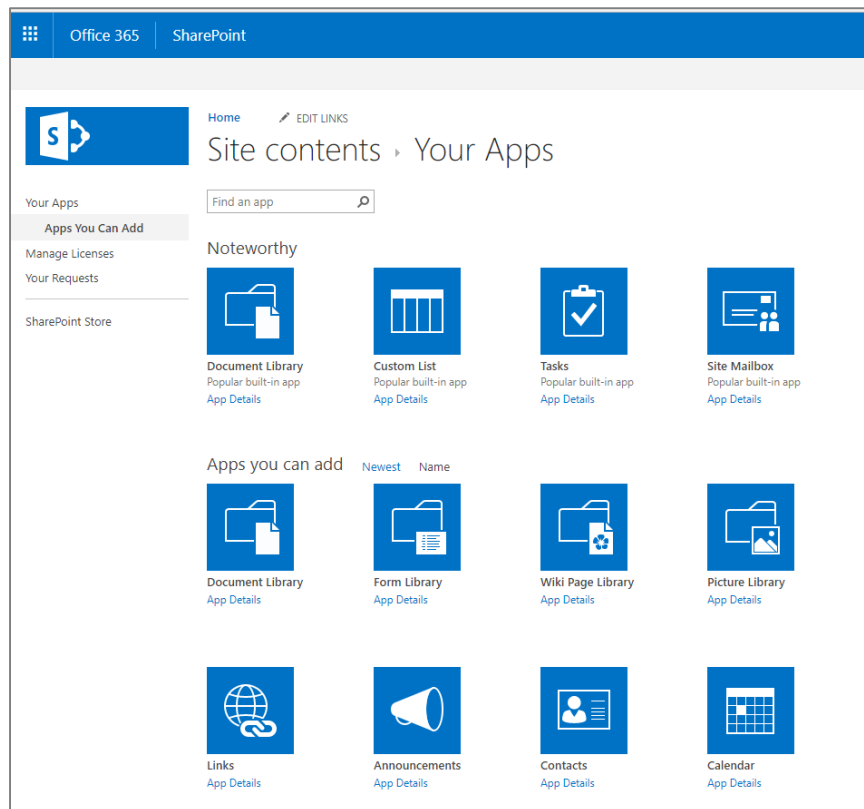
SharePoint Online

- 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"



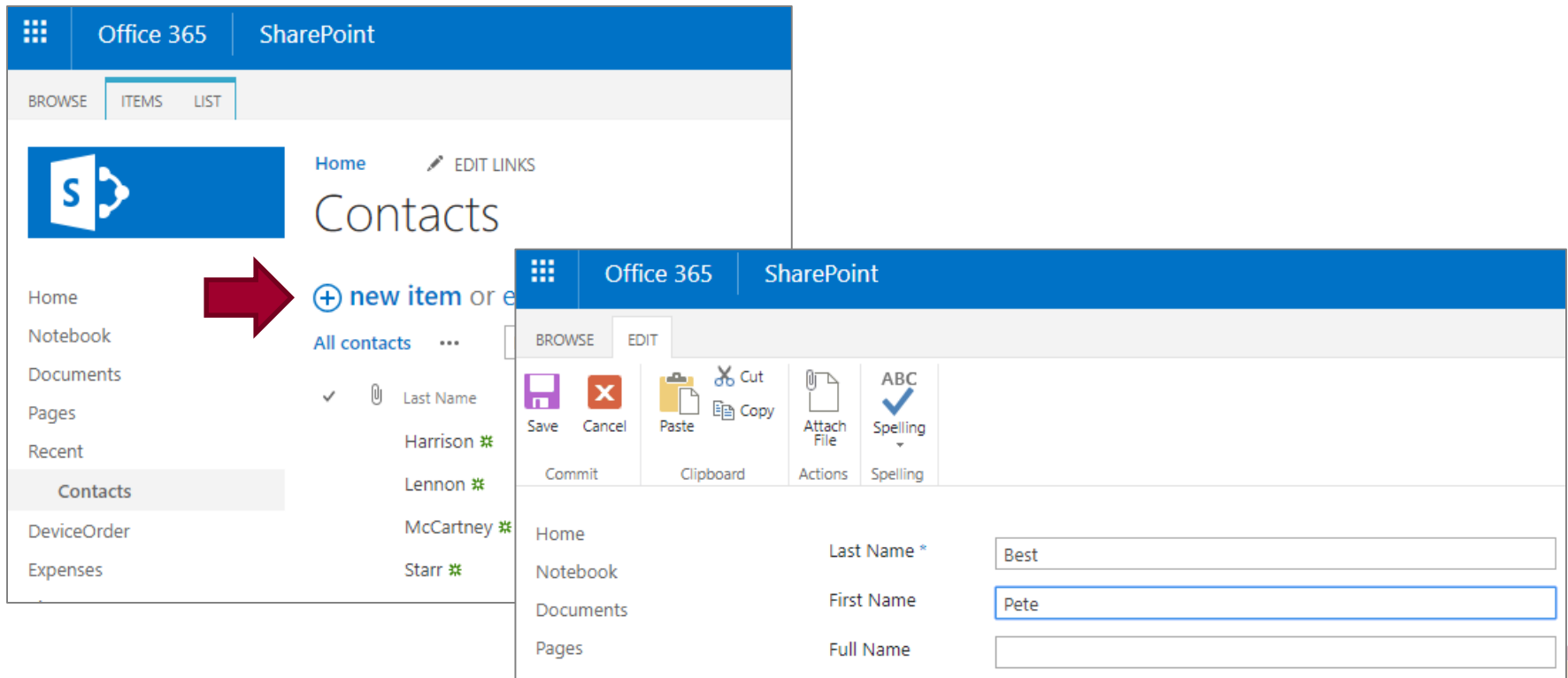
Creating Lists

- 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 a table of items. To the right, the 'New item' form is open, showing fields for 'Expense', 'Category', 'Date', and 'Amount'.

Expenses List 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

New item Form Fields:

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





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

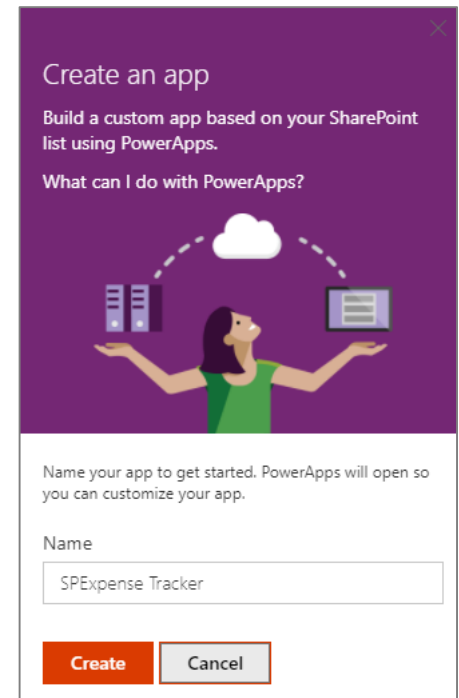
- Modern UI provides commands to create apps

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

Create an app

Build a custom app based on your SharePoint list using PowerApps.

What can I do with PowerApps?



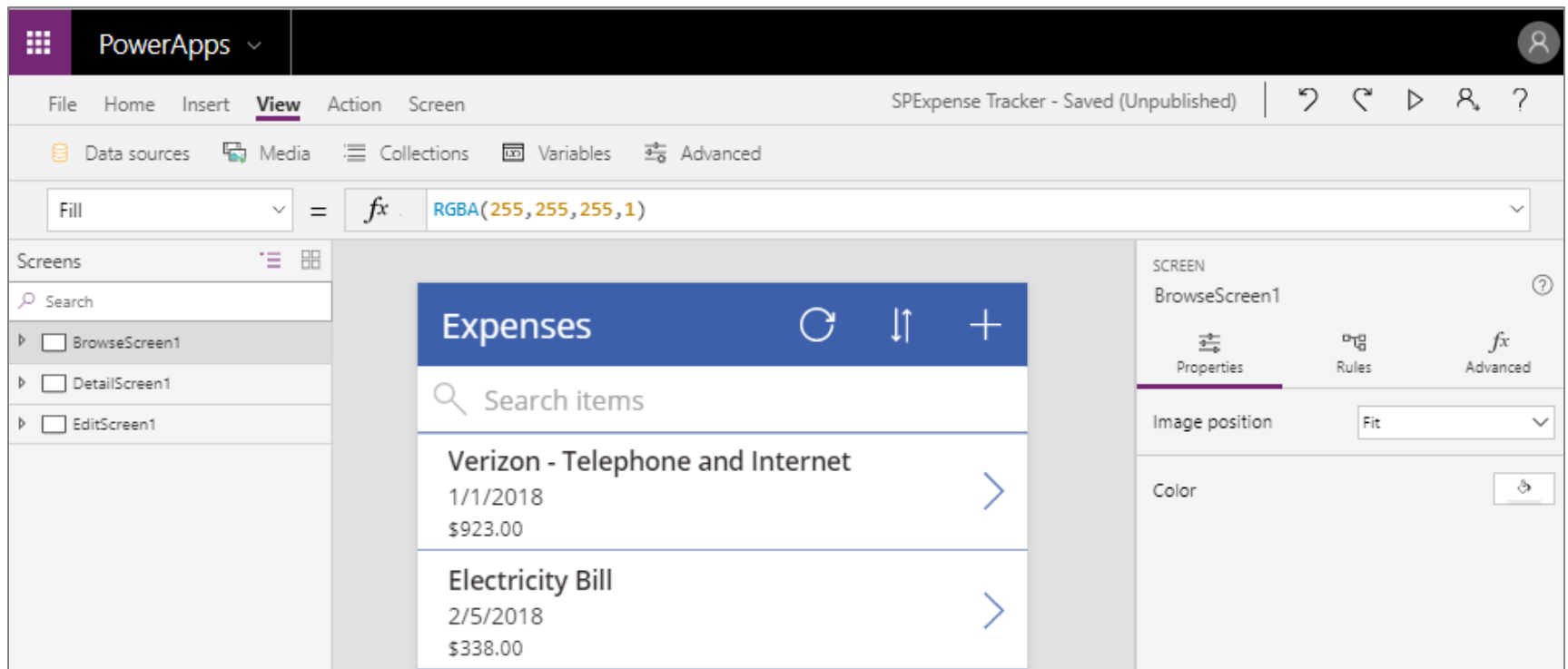
Name your app to get started. PowerApps will open so you can customize your app.

Name



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
<div>✓</div> 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

CP Critical Path Labs Team Site

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

Expenses

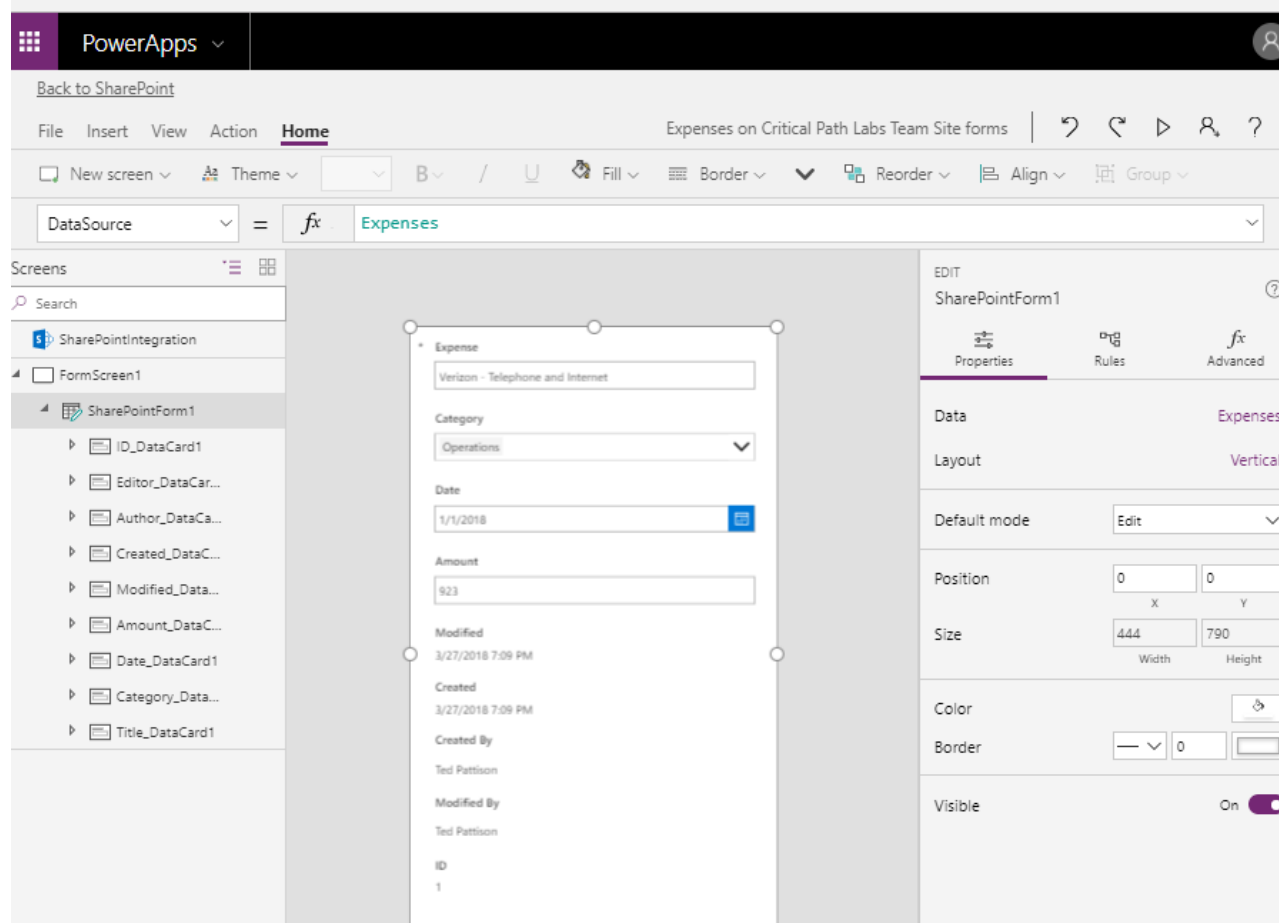
Create an app
Customize forms

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



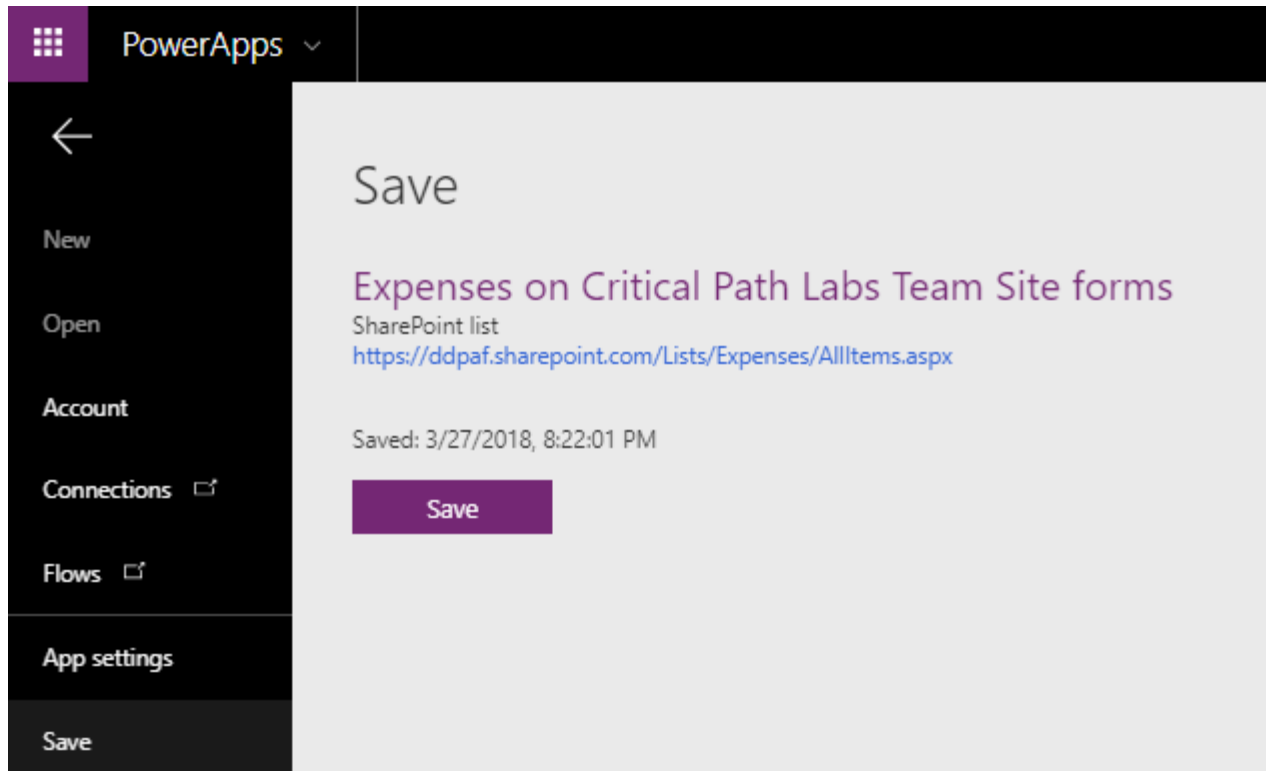
Customizing the Form

The screenshot displays the Microsoft PowerApps interface for customizing a form. The top bar shows the 'PowerApps' logo and a 'Back to SharePoint' link. The main menu includes 'File', 'Insert', 'View', 'Action', and 'Home'. The 'View' tab is active, showing a ribbon with 'Data sources', 'Media', 'Collections', 'Variables', and 'Advanced'. The 'Data sources' pane on the left shows a list of data sources, including 'SharePointIntegration', 'FormScreen1', 'Label1', and 'SharePointForm1'. The 'SharePointForm1' data source is selected, and its properties are displayed in the 'Properties' pane on the right. The 'Properties' pane includes sections for 'Data', 'Layout', 'Default mode', 'Position', 'Size', 'Color', 'Border', and 'Visible'. The 'Data' section shows the data source 'Expenses' and the 'Layout' section shows the layout 'Vertical'. The 'Default mode' is set to 'Edit'. The 'Position' is set to (0, 60) and the 'Size' is set to (444, 730). The 'Color' is set to white and the 'Border' is set to 0. The 'Visible' property is set to 'On'. The main canvas shows a custom form with a yellow header 'This is a Custom Form'. The form contains five data cards: 'ID' (value 1), 'Expense' (value 'Verizon - Telephone and Internet'), 'Category' (value 'Operations'), 'Date' (value '1/1/2018'), and 'Amount' (value '923'). The 'Data' pane on the right shows the 'Expenses' data source with a table of data. The table has columns for ID, Expense, Category, Date, and Amount. The data is as follows:

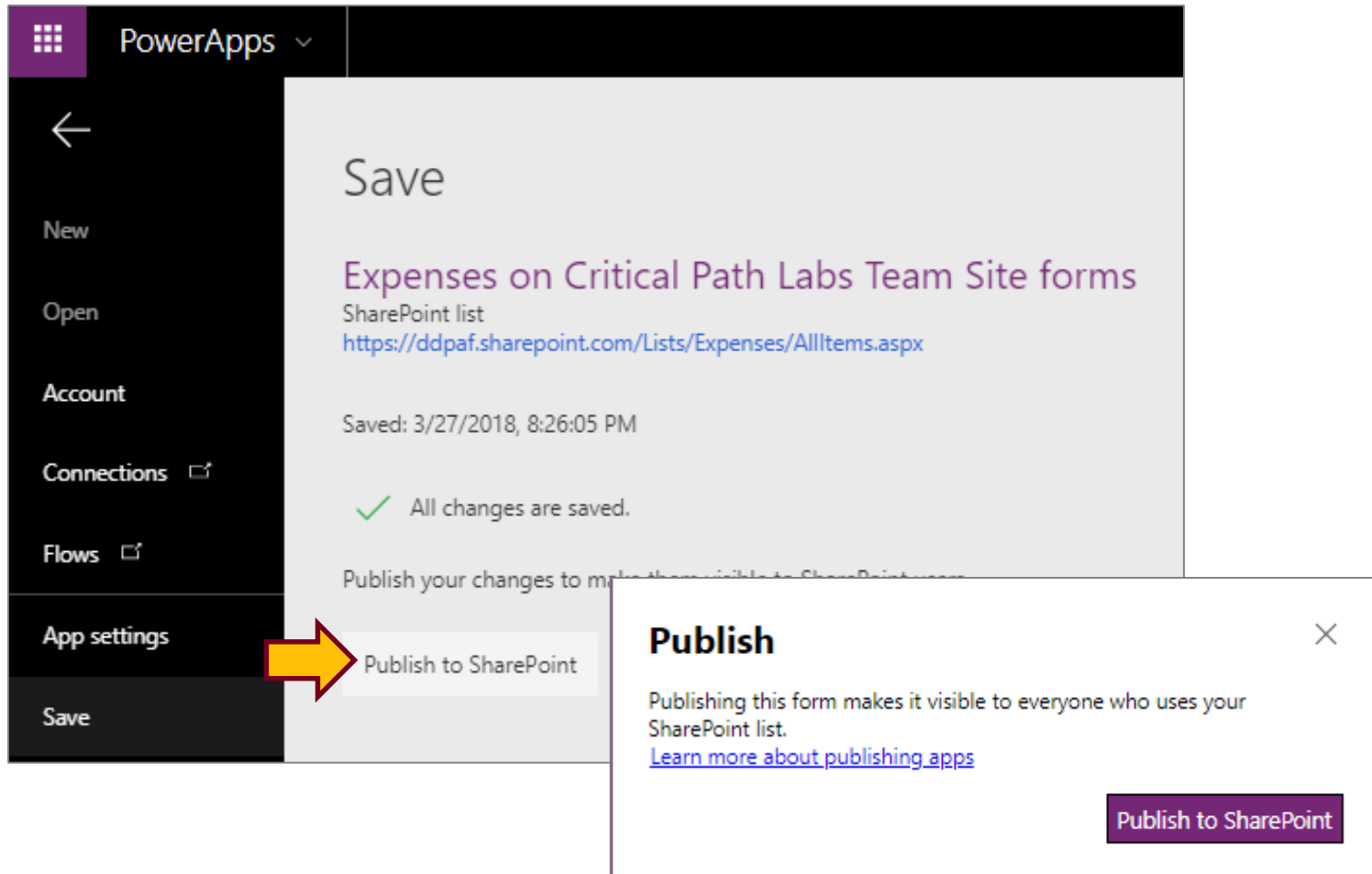
ID	Expense	Category	Date	Amount
1	Verizon - Telephone and Internet	Operations	1/1/2018	923



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
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

