

Getting Started with the Power Platform



Agenda

- Getting Started with the Power Platform
- Creating Canvas Apps in Power Apps
- Creating Flows in Power Automate
- Introduction to the Common Data Service
- Working with Model-driven Apps



What is the Power Platform?

Power Platform



Power BI



Power Apps



Power Automate



Connectors and
Gateways



Common Data
Service



What Can You Build with Power Apps?

- Canvas Apps
 - Built using Power Apps Studio
- Flows
 - Used to process data and run workflows
- Connections
 - Used to connect Canvas apps and flows to external data
- Common Data Service (CDS) Components
 - Used to create business-centric data solutions
- Model-driven Apps
 - Application platform built on top of CDS
- Power Apps Portals
 - Website development platform built on top of CDS



Creating an Office 365 E5 Trial Tenant

- All students will create an Office 365 trial tenant
 - Provides an isolated development environment for lab exercises
 - Trial accounts will last for 30 days

Microsoft

Thank you for choosing Office 365 E5

① Let's set up your account

Enter your work or school email address, we'll check if you need to create a new account for Office 365 E5.

Email
TedP@SharePointConfessions.onMicrosoft.com

Next

② Tell us about yourself

③ Create your business identity

④ Get Office

① Let's set up your account

Looks like you're already using TedP@SharePointConfessions.onMicrosoft.com with another Microsoft service. Sign in to use this account with this trial, or create a new account.

Sign in

Create a new account instead

④ Get Office

Save this info. You'll need it later.

Sign-in page
<https://www.office.com/>

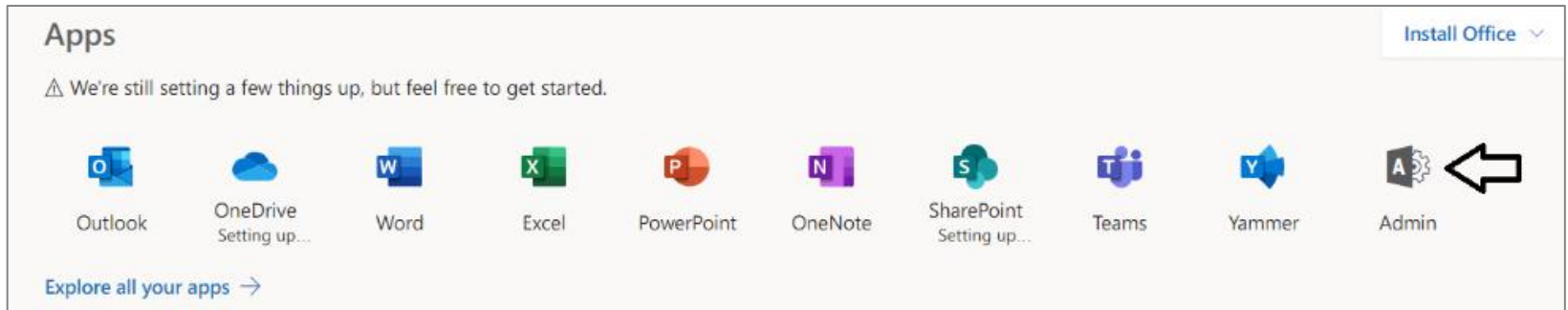
Your user ID
[Student@labs4summit.onmicrosoft.com](#)

Go to Setup

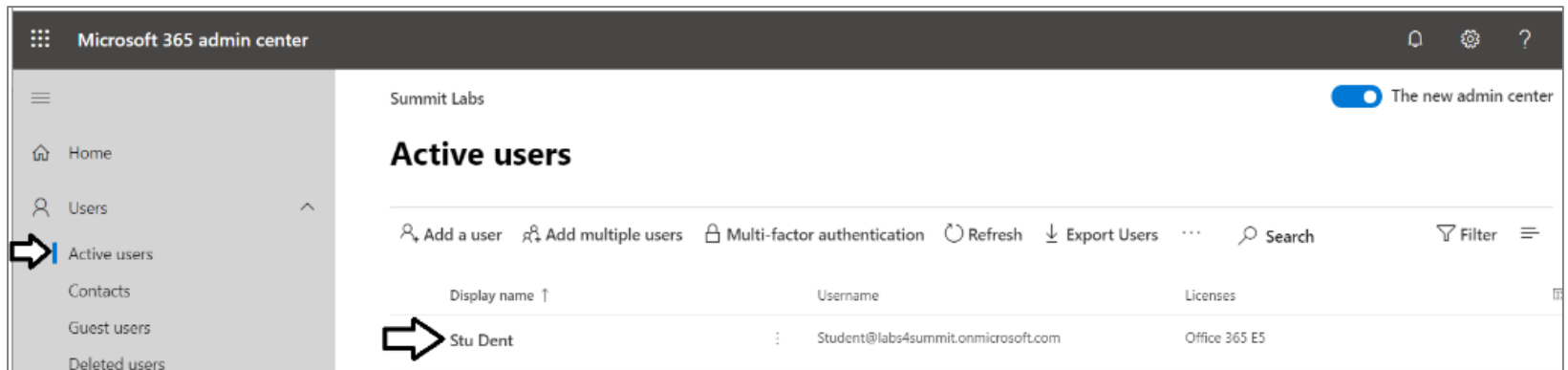


Microsoft 365 Admin Center

- Navigate to the Microsoft 365 Admin center



- Allows for management of users accounts and licensing



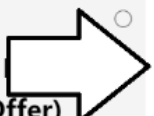
Configuring a Power Apps Plan 2 License

- Certain design tasks require Power Apps Plan 2
 - You can start a 30-day trial for Power Apps Plan 2
 - License must be assigned to individual user accounts

Business apps

Boost employee productivity with apps that power your organization. Build apps, automate processes and tasks, plan and track your projects, and create diagrams, organization charts, maps, and workflows - all to support your business.

Microsoft PowerApps (Qualified Offer)
Create, share, and run business apps and workflows for cloud and on-premises data or the Microsoft
Starting at
\$7.00 user/month




Microsoft PowerApps Plan 2 (Qualified Offer)
Create, share, and run business apps and workflows for cloud and on-premises data or the Microsoft
Starting at
\$40.00 user/month

Stu Dent
Sign in allowed
[Change photo](#)

Account Devices **Licenses and Apps** ← OneDrive

Select location *
United States ▼

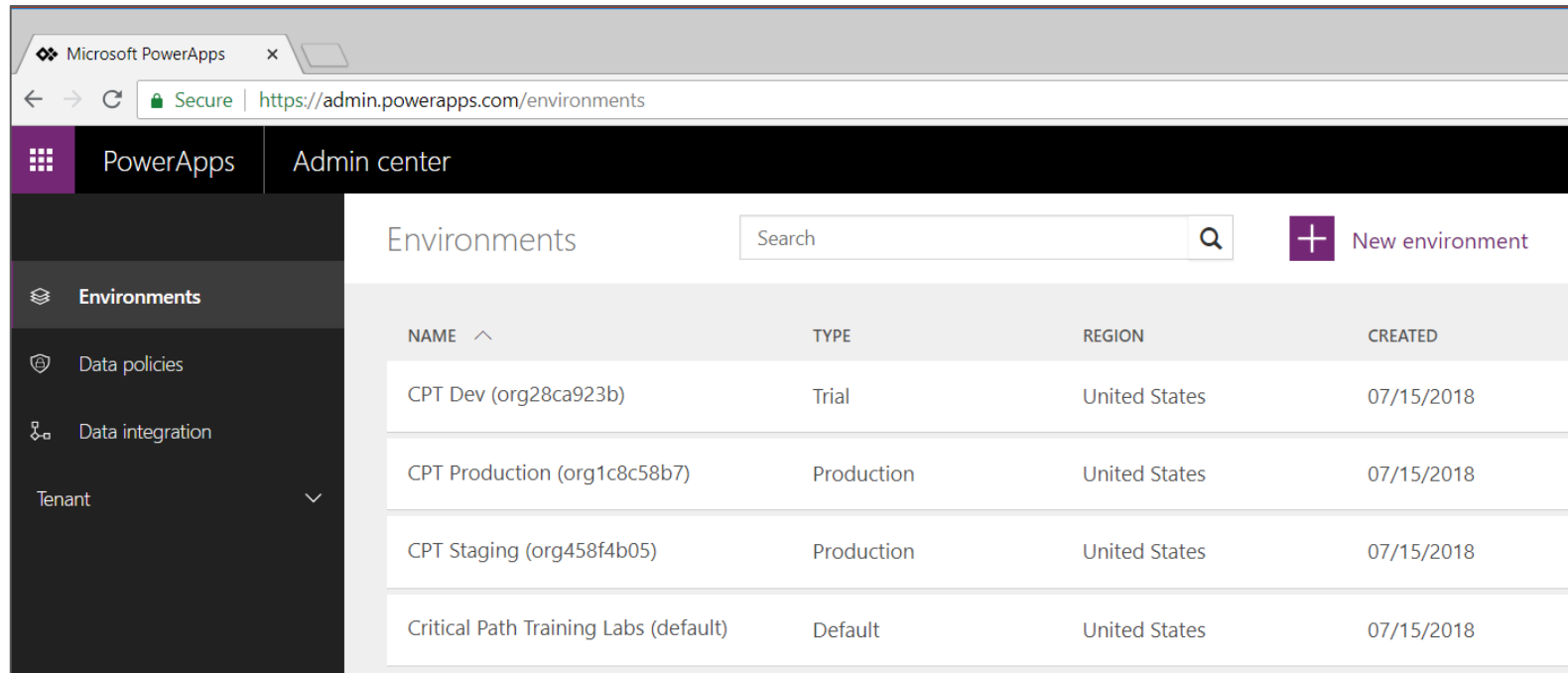
Licenses (2)

<input type="checkbox"/>		<input checked="" type="checkbox"/>	Microsoft PowerApps Plan 2 24 of 25 licenses available
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Office 365 E5 23 of 25 licenses available



Power Apps Admin Center & Environments

- Power Apps architecture based on environments
 - Environment provides context for creating apps and flows
 - Every tenant is automatically created with default environment
 - Organization can create multiple environments for dev & staging
 - Power Apps Plan 2 license required to manage environments



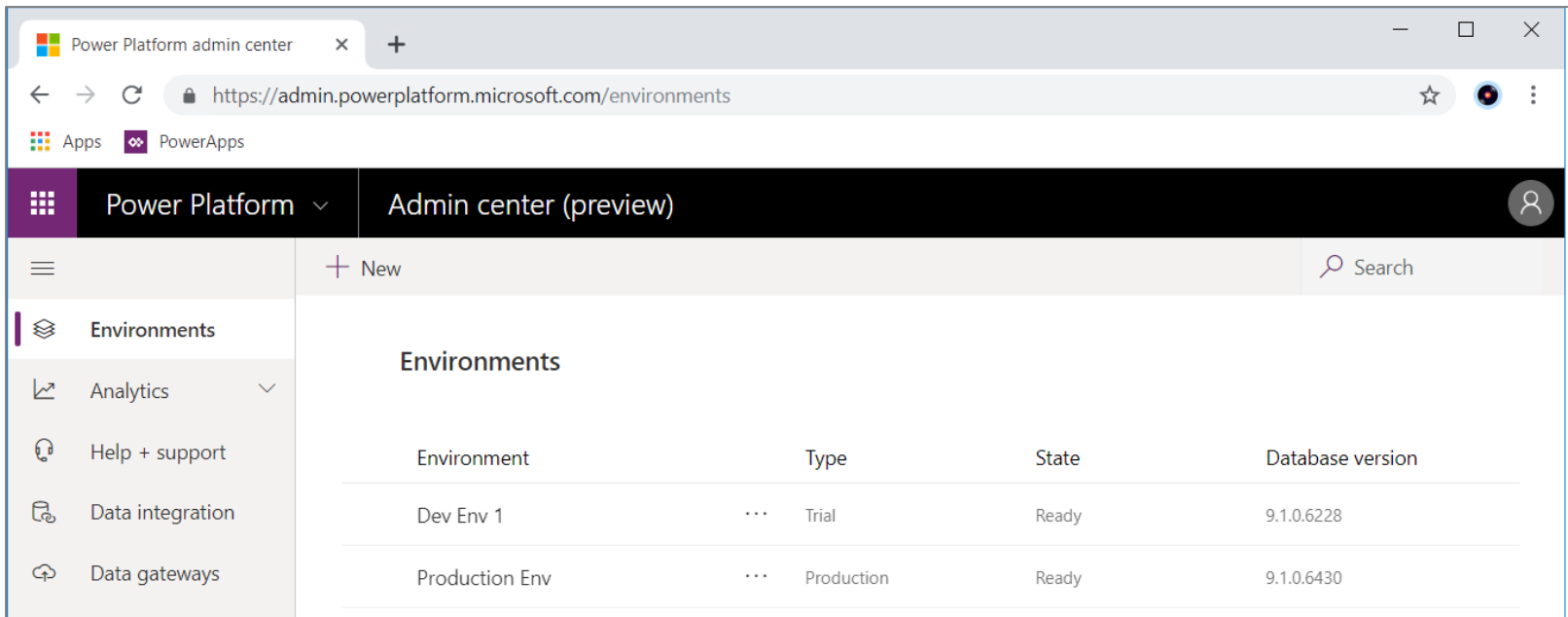
The screenshot displays the Microsoft PowerApps Admin Center interface. The browser address bar shows the URL <https://admin.powerapps.com/environments>. The left sidebar contains navigation options: Environments (selected), Data policies, Data integration, and Tenant. The main content area is titled 'Environments' and includes a search bar and a '+ New environment' button. Below this is a table listing the environments for the tenant.

NAME ^	TYPE	REGION	CREATED
CPT Dev (org28ca923b)	Trial	United States	07/15/2018
CPT Production (org1c8c58b7)	Production	United States	07/15/2018
CPT Staging (org458f4b05)	Production	United States	07/15/2018
Critical Path Training Labs (default)	Default	United States	07/15/2018



Power Platform Admin Center

- Power Platform Admin center is admin UI of the future
 - Power Platform Admin center preview is missing many features
 - Power Platform Admin center should be main admin UI by 2020
 - Go to <https://admin.powerplatform.microsoft.com/environments>





DEMO

Configuring Power Apps Plan 2 Licenses

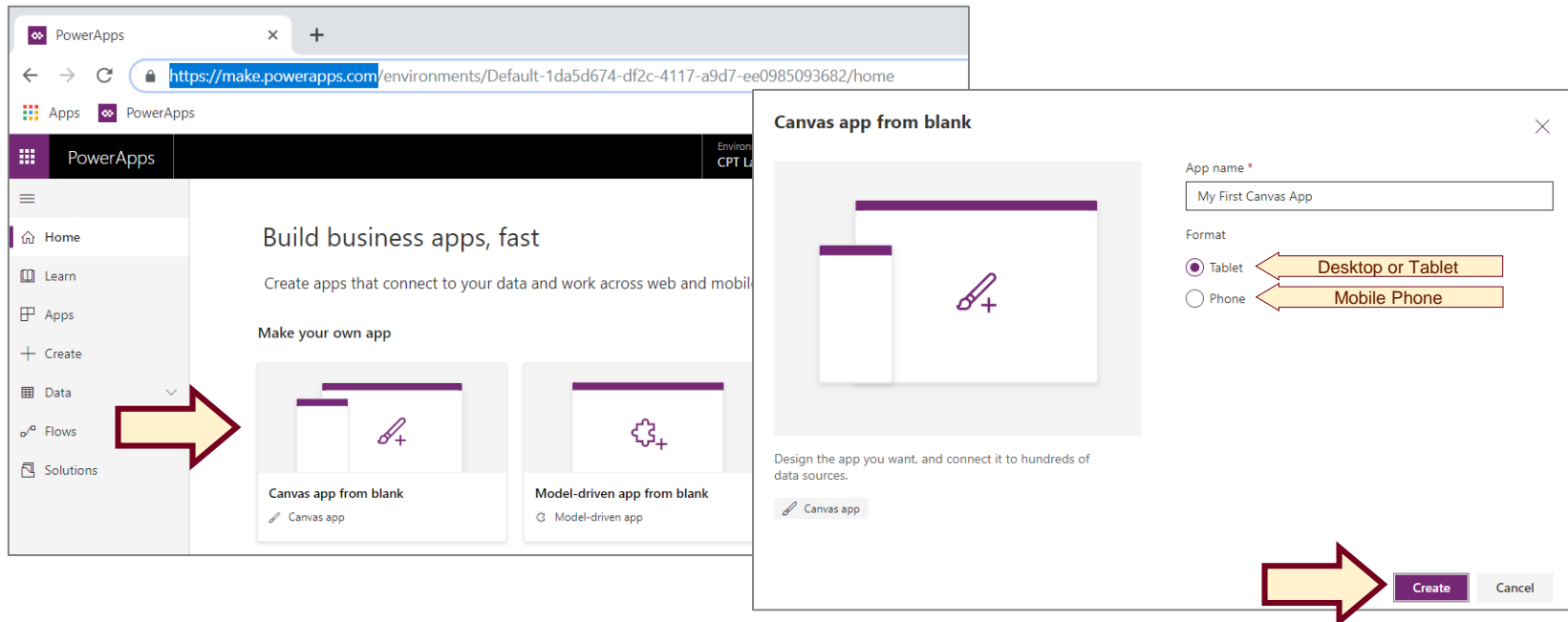
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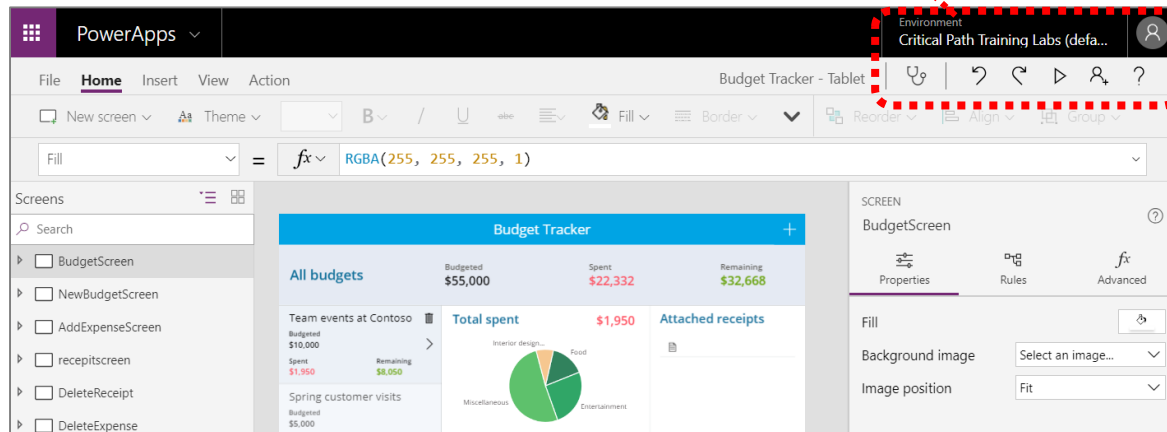
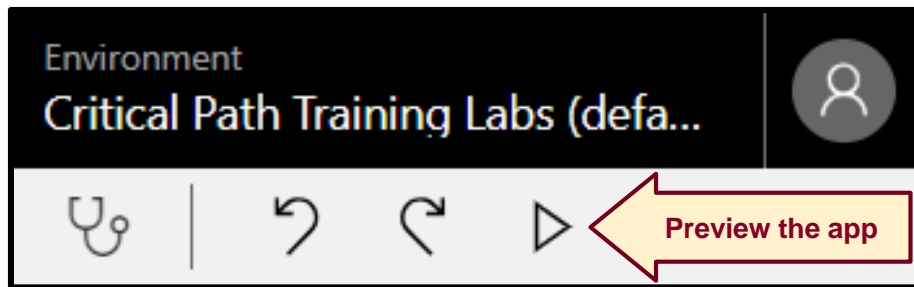
Creating a New Canvas App

- Create Canvas apps from the Power Apps Home page
 - Navigate to <https://make.PowerApps.com>
 - Chose **Canvas app** from **blank** OR **Start from data**
 - Choose between **Phone** form factor and **Desktop/Tablet** form factor
 - Clicking **Create** button redirects browser to <https://create.PowerApps.com>



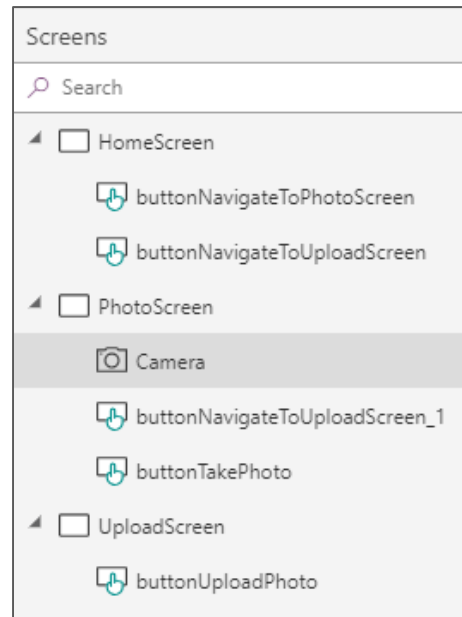
Running an App from Power Apps Studio

- You can run the app using the Power Apps Studio toolbar
 - Run the app by clicking the **Preview the App** button
 - Stop a running app to return to design mode



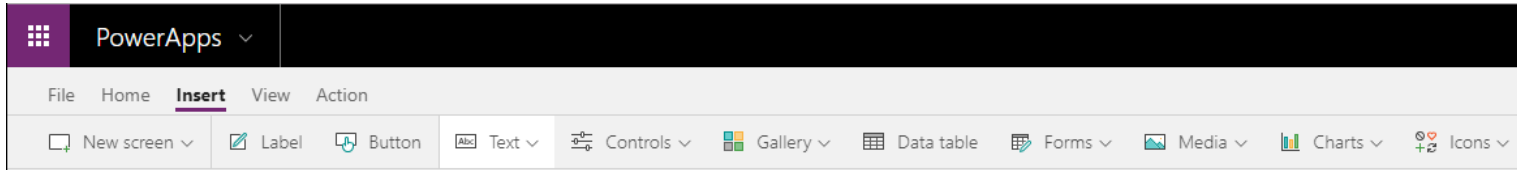
Building Apps using Screens and Controls

- Screens provide the top-level objects in Power Apps UI
 - Your app must have one screen but can have multiple screens
 - You design screens by adding and configuring controls
 - Left tree view shows hierarchical view of screens and controls
 - You can rename screens and controls using left tree view menu

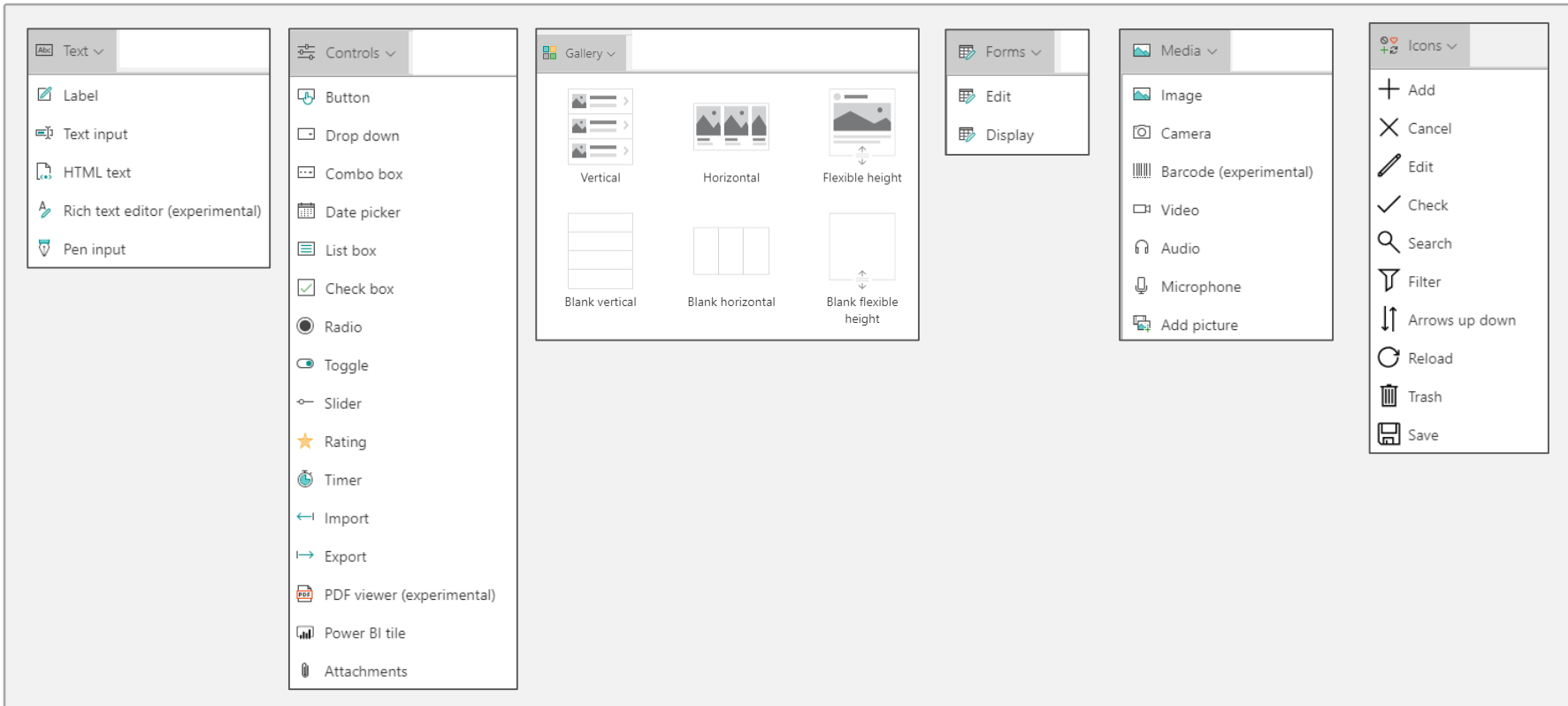


Adding Controls to a Screen

- You add controls to a screen using the **Insert** ribbon tab

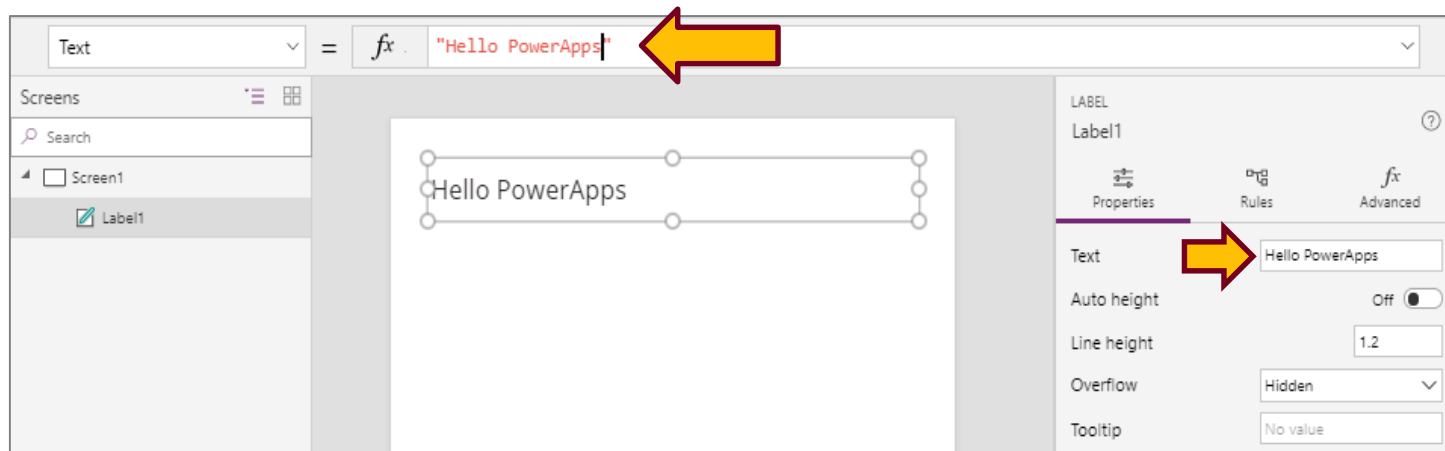


- Power Apps provides extensive set of controls for web and mobile apps



Configuring Control Properties

- Control properties can be set two different ways
 - Property values can be set using Properties pane
 - Property values can be set using Formula bar



- Building apps with Power Apps requires shift in thinking
 - You don't write code to set property values like in VBA
 - Control properties configured using formulas
 - You develop using **declarative style** instead of **procedural style**



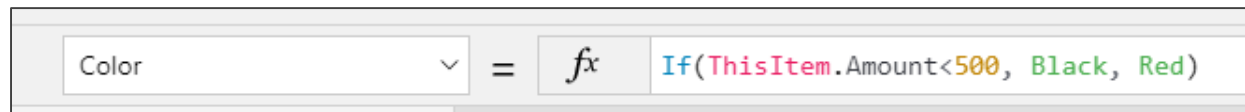
Power Apps Formula Language

- Power Apps provides its own Formula Language
 - Designed to be as similar as possible to Excel Formula language
 - Power Apps Formula Language includes built-in set of functions
- You write formulas for specific properties
 - Set the Text property for a label



A screenshot of the Power Apps formula bar. The property dropdown is set to "Text". The formula is `"Hello, " & User().FullName`. The formula bar has a light gray background with a white border.

- Set the Color property of the label text



A screenshot of the Power Apps formula bar. The property dropdown is set to "Color". The formula is `If(ThisItem.Amount<500, Black, Red)`. The formula bar has a light gray background with a white border.

- Write an formula to filter the items shown in a gallery



A screenshot of the Power Apps formula bar. The property dropdown is set to "Items". The formula is `Filter(Devices, ManufacturerID = ManufacturerGallery.Selected.ManufacturerID)`. The formula bar has a light gray background with a white border.



Events and State Changes

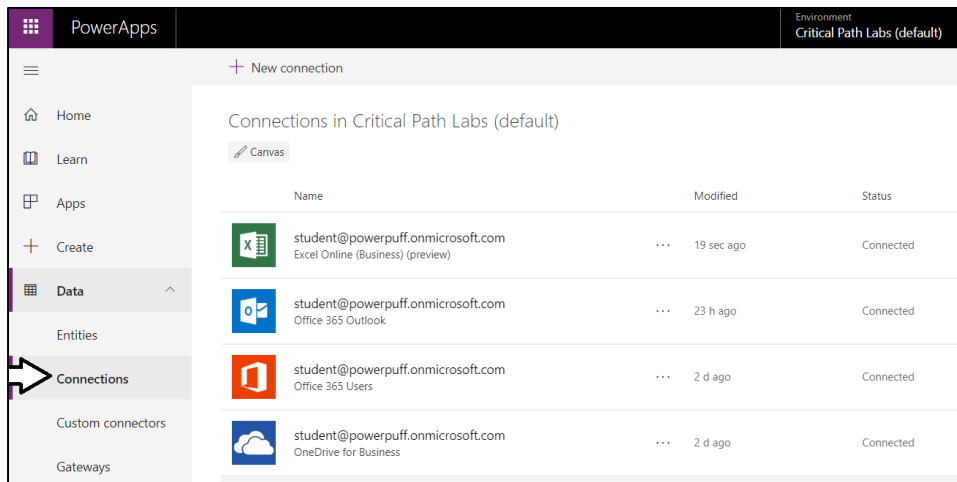
- Formulas for event properties can contain imperative logic
 - `onSelect`, `onVisible`, `onStart`, etc.
- Imperative logic is used to take action
 - Set value of global variable or context variable
 - Add item to a collection
 - Navigate between screens
 - Submit data to server
- You can chain actions together with chaining operator (;)

```
fx Collect(Customers, {ID: NextCustomerId, FirstName: FirstNameTextInput.Text, LastName: LastNameTextInput.Text});  
Reset(FirstNameTextInput);  
Reset(LastNameTextInput);  
Set(NextCustomerId, NextCustomerId+1);
```



Understanding Connectors & Connections

- What is a Connector?
 - API wrapper that Power Apps uses to interact with datasource
- What is a Connection?
 - Configuration created to connect to a specific datasource
 - Each connection is created using a specific connector
 - Connection also caches login credentials and granted permissions
 - Connections can be shared across users



The screenshot shows the 'SQL Server' connection configuration dialog box. It contains fields for 'SQL server name', 'SQL database name', 'Username', and 'Password'. The 'SQL server name' field is populated with 'cpt.database.windows.net', the 'SQL database name' field with 'WingtipSalesDB', and the 'Username' field with 'CptStudent'. The 'Password' field is masked with dots. There are 'Cancel' and 'Create' buttons at the bottom right.

SQL Server
Microsoft

SQL server name *
cpt.database.windows.net

SQL database name *
WingtipSalesDB

Username *
CptStudent

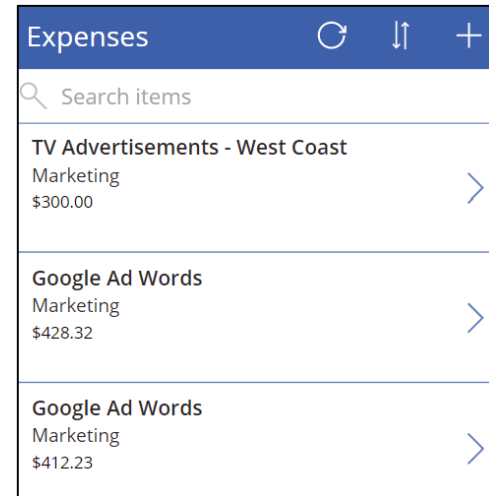
Password *

Cancel Create

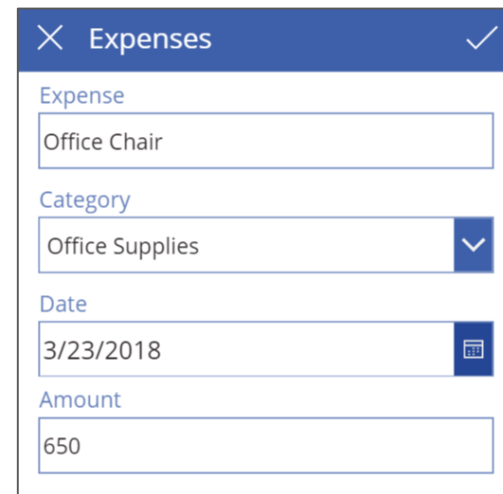


Data Binding with Galleries and Forms

- Table binding
 - Gallery control
 - DataTable control
- Single-record binding
 - Display form control
 - Edit form control



Expenses	
Search items	
TV Advertisements - West Coast	>
Marketing \$300.00	
Google Ad Words	>
Marketing \$428.32	
Google Ad Words	>
Marketing \$412.23	



Expenses	
Expense	
Office Chair	
Category	
Office Supplies	
Date	
3/23/2018	
Amount	
650	



Working with the Data Pane

- You use the Data pane to configure data binding
 - Select a data-bound control and then display Data pane
 - Data pane allows you to change layout for data binding
 - Once you select layout, you can then map fields below

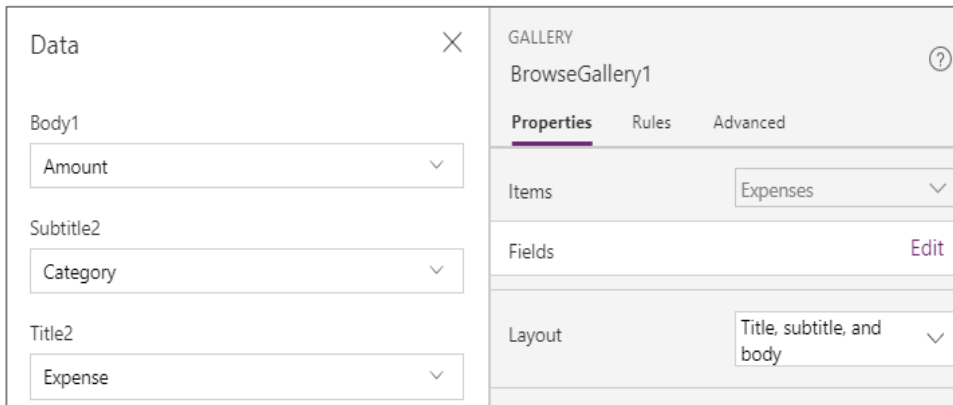
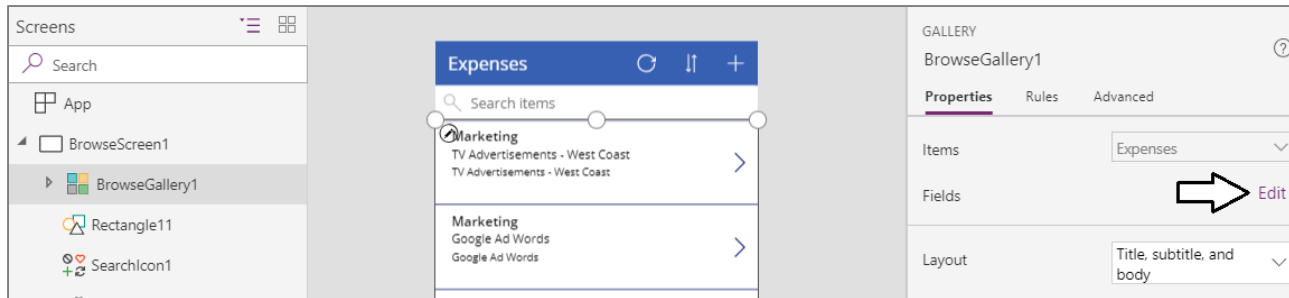


Table Functions

- Each table represented as a value
 - Table can be passed as argument
 - Table can be returned by function
- Functions that return tables
 - Filtering: `Filter`, `Search`
 - Sorting: `Sort`, `SortByColumns`
 - Shaping: `AddColumns`, `DropColumns`, `RenameColumns`
 - Grouping: `GroupBy`, `Ungroup`



Understanding Delegation

- **Delegation** is act of pushing work to data source
 - Work usually involves filtering and sorting
 - Work can also involve aggregation
 - Delegation minimizes amount of data retrieved by app
- Not all connectors support delegation
 - Non-delegate-able connectors only return 500 items
 - Searching through data becomes unpredictable





DEMO

Creating an App using the Start from Data Template

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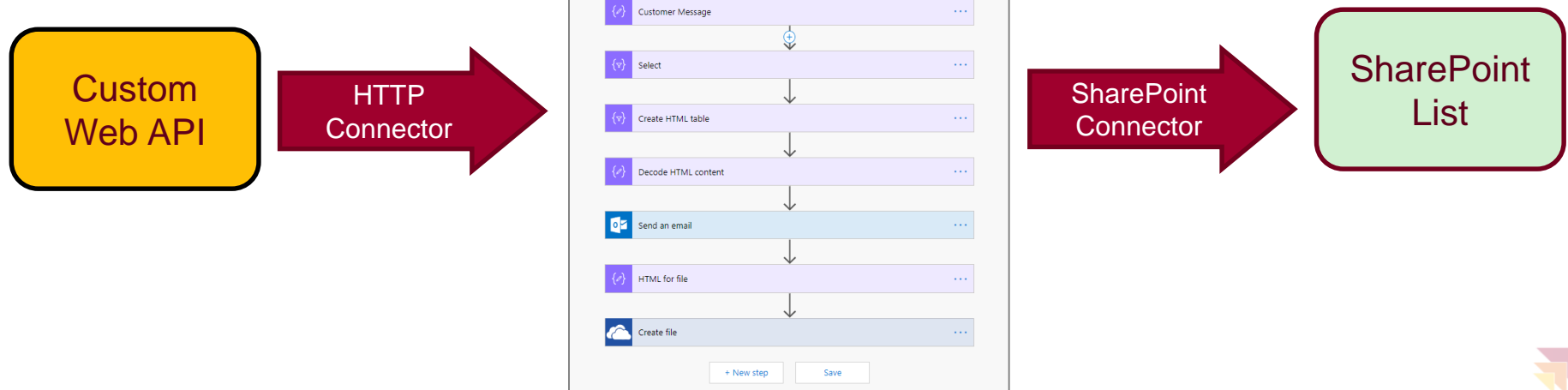
What is Power Automate?

- Service for automating business and workflow processes
 - You use Power Automate by creating and running "flows"
 - Power Automate provides browser-based flow editing experience
 - Power Automate originally went by the name of "Microsoft Flow"
- What can you automate by creating a flow?
 - Sending notifications
 - Importing and exporting data
 - Generating Microsoft Word documents
 - Automating approvals



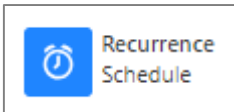
Building Blocks of Power Automate

- Flows are created using the following building blocks
 - **Triggers** - events that start a flow
 - **Actions** - tasks and operation executed by flow
 - **Services** - sources and destinations for data
 - **Connectors** - wrappers to communicate with service APIs

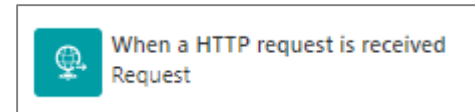
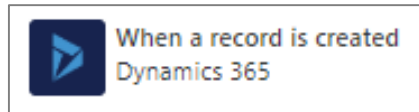
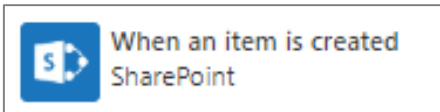


Flow Trigger Types

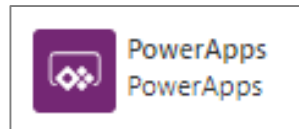
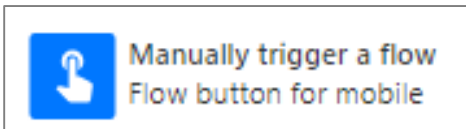
- Scheduled Flow Triggers
 - Runs periodically based on an interval



- Automated Flow Triggers
 - Runs when something happens

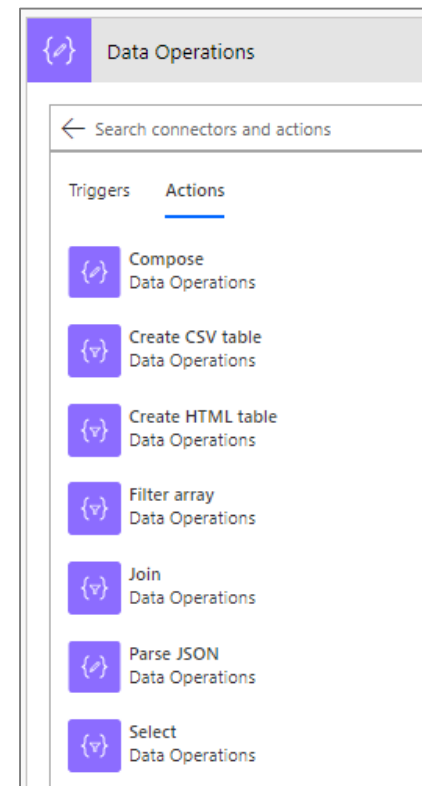
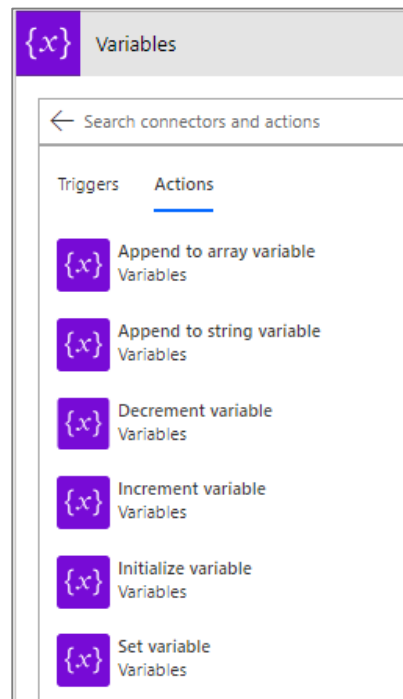
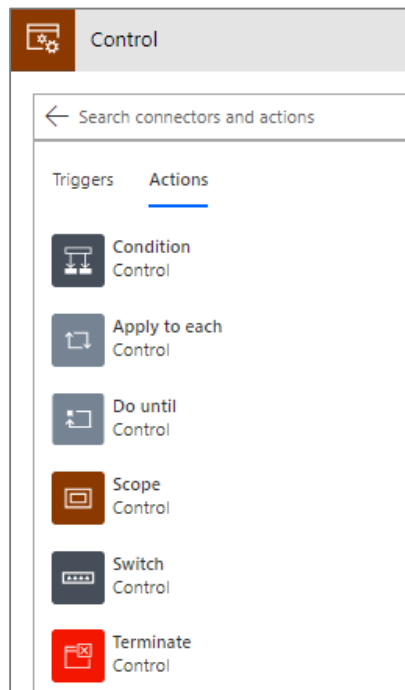


- On-demand Flow Triggers
 - Runs when a user clicks a button



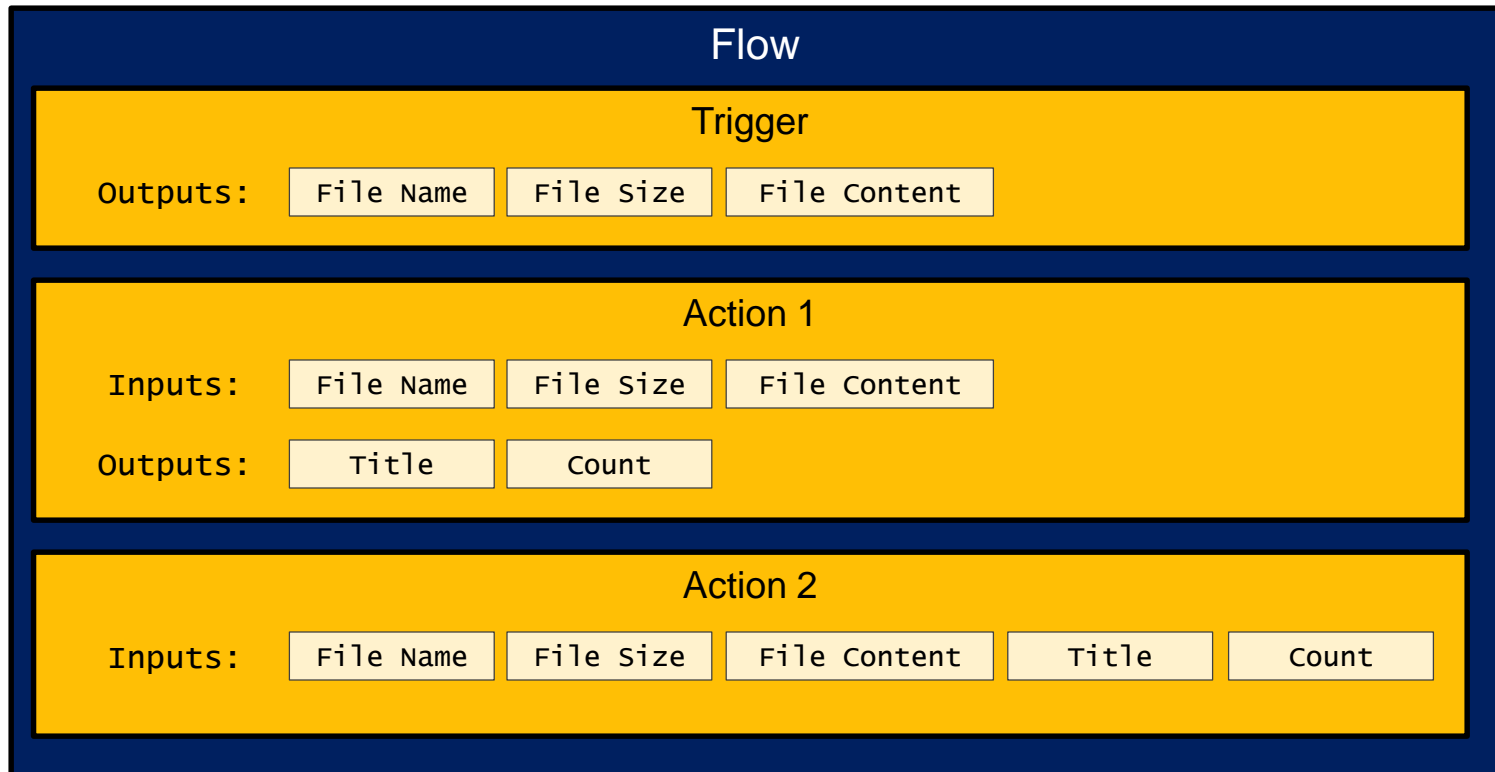
Core Action Categories

- **Control:** actions to provide control-of-flow
- **Variables:** actions to manage state within flow lifetime
- **Data operations:** action to process data & prepare content



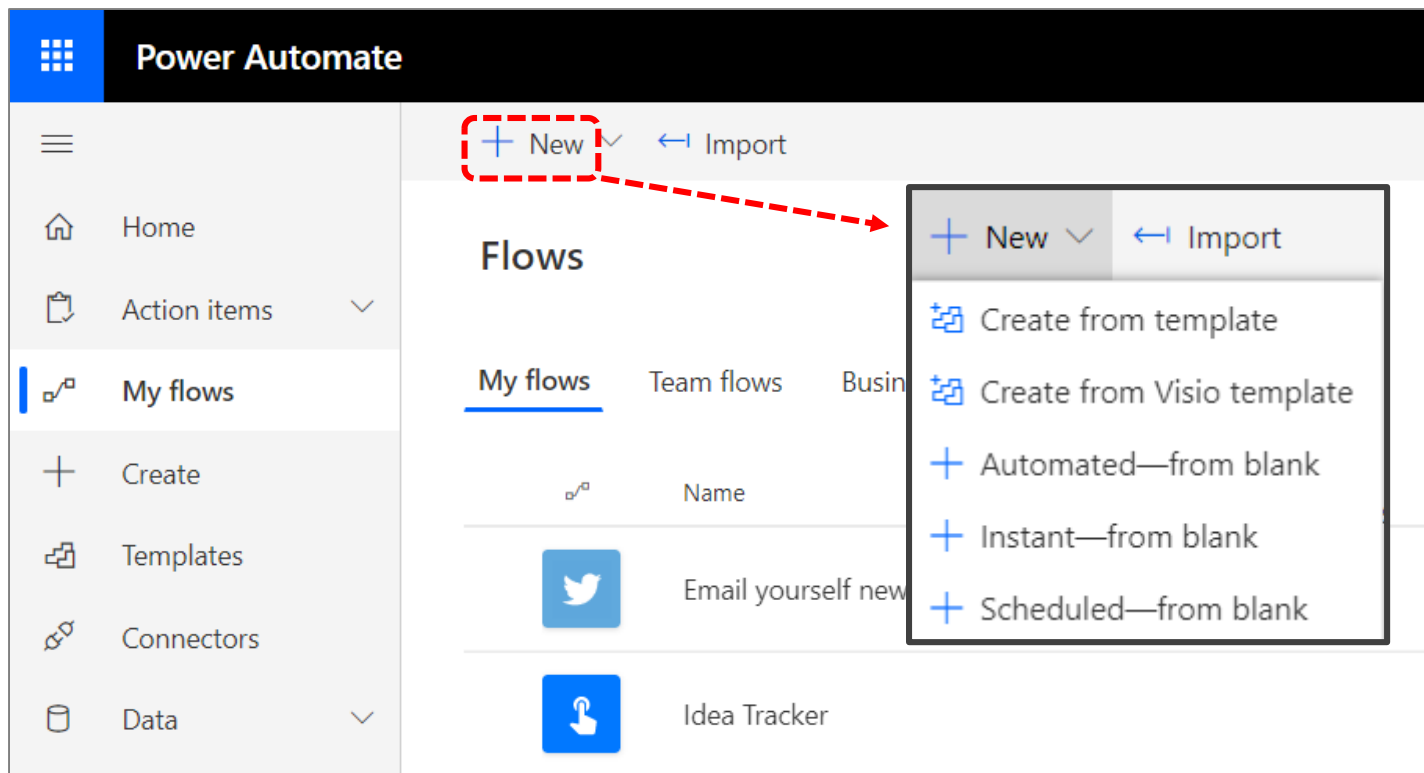
Data Automatically Flows from Step to Step

- Data in flows added by step outputs
 - Data added in step output is available in later steps
 - It's easy to configure step input data using output data in previous steps
 - Certain outputs displayed/hidden based on types of input and output



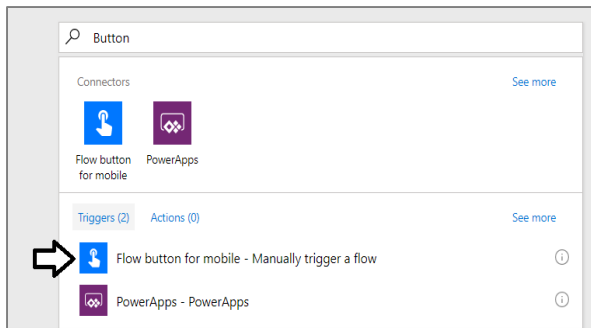
Creating and Managing Flows

- Power Automate user portal used to manage & edit flows
 - Accessible through <https://flow.microsoft.com>
 - Flow can be created from blank or from template



Creating a Flow Trigger by Manual Button

- Use Run button for Mobile as flow trigger



- Trigger can be extended with one or more input fields

A screenshot of the 'Run flow' dialog box for the 'Idea Tracker' flow. The dialog box has a title bar that says 'Run flow'. Below the title bar, there is a section for the flow name and owner: 'Idea Tracker' and 'Owners: Ted Pattison'. Below this, there is a 'See details' link with a downward arrow. The main body of the dialog box contains two input fields: 'Quality *' with a dropdown menu showing 'Good' and 'Idea *' with a text input field containing 'Learn PowerApps for career advancement'. At the bottom of the dialog box, there is a blue 'Run flow' button and a grey 'Cancel' button. A black arrow points to the 'Run flow' button. In the bottom left corner, there is a link that says 'Edit connections'.




Building Out The Idea Tracker Flow


Flow name

Idea Tracker

✓ Update flow

✕ Close

 Manually trigger a flow

 Quality

Please enter your input

...

List Options


Lame


Good


Great


Brilliant


Enter another option










 Idea


Please enter your input

...

+

 Add an input




 Send an email

* To


Student@DDPAF.onmicrosoft.com;

* Subject

 Quality ✕

Idea for consideration

* Body

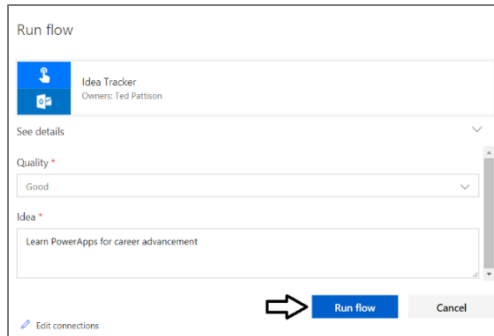
 Idea ✕

Show advanced options ▾

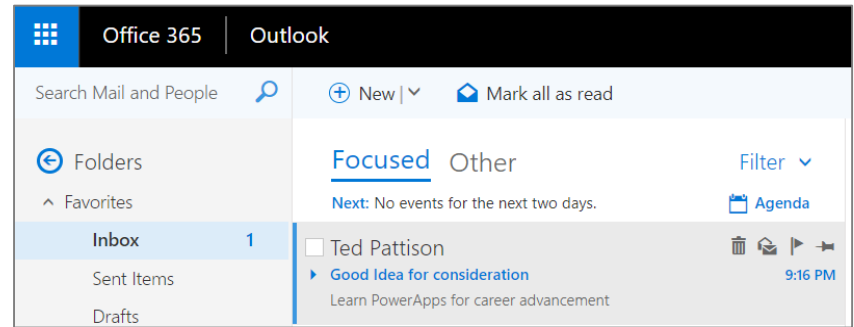
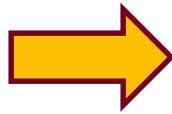


Where Should You Write the Idea?

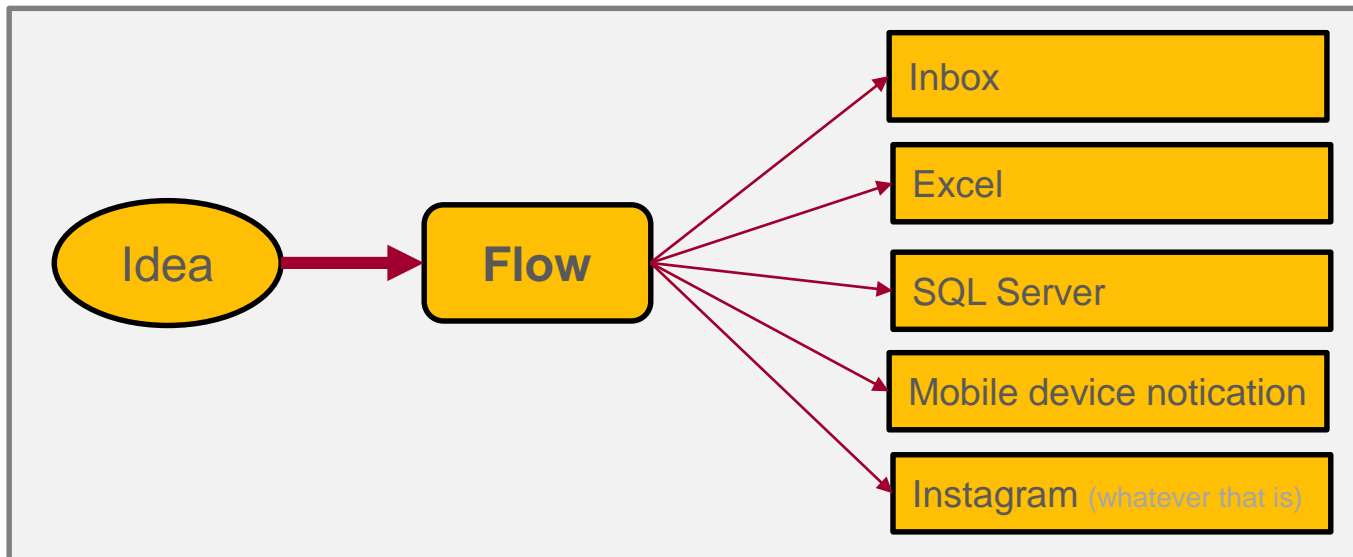
- You can track the idea by sending an email



The 'Run flow' dialog box for the 'Idea Tracker' flow (owned by Ted Pattison) is shown. It includes a 'See details' section with a 'Quality' dropdown set to 'Good' and an 'Idea' text box containing 'Learn PowerApps for career advancement'. At the bottom, there is a 'Run flow' button and a 'Cancel' button.

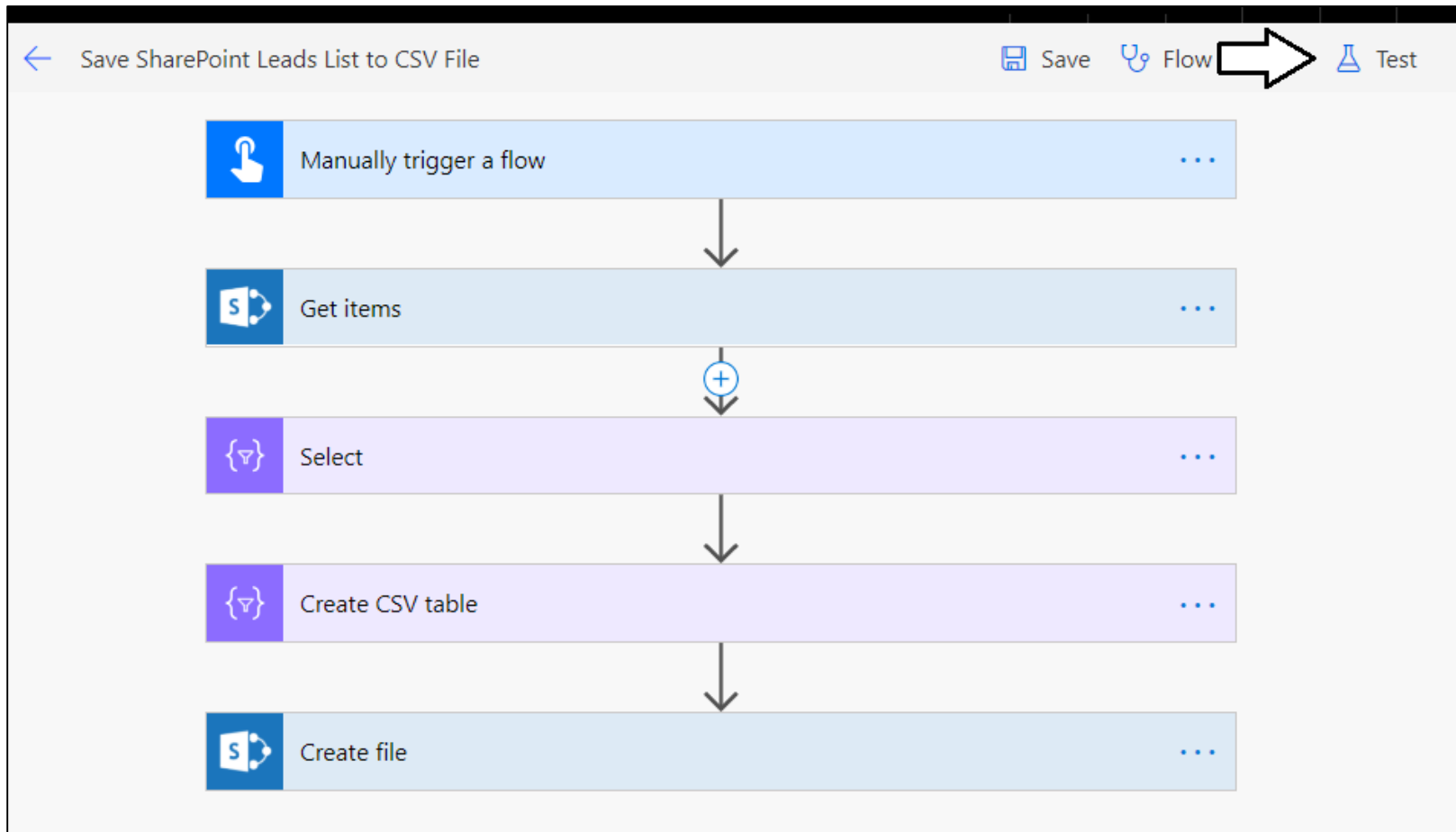


- Or get even more extravagant



Testing a Flow

- Flow can be run/tested from edit mode



Flow Checker

- Automatically checks flows for errors and omissions

The screenshot displays the Microsoft Flow Builder interface. The main workspace shows a flow titled "Send an email when a new item is created in SharePoint." with two steps:

- When a new item is created** (SharePoint connector):
 - * Site Address**: Example: `https://contoso.sharepoint.com/sites/sitename`. Below the input field is the error message: "Include a Site Address."
 - * List Name**: SharePoint list name. Below the input field is the error message: "Include a List Name."
- Send an email** (Outlook connector):
 - * To**: Specify email addresses separated by semicolons like `someone@contoso.com`. Below the input field is the error message: "Using the default values for the parameters. [Edit](#)"

A downward arrow indicates the flow sequence from the first step to the second.

The **Flow Checker** pane on the right side of the interface shows the following details:

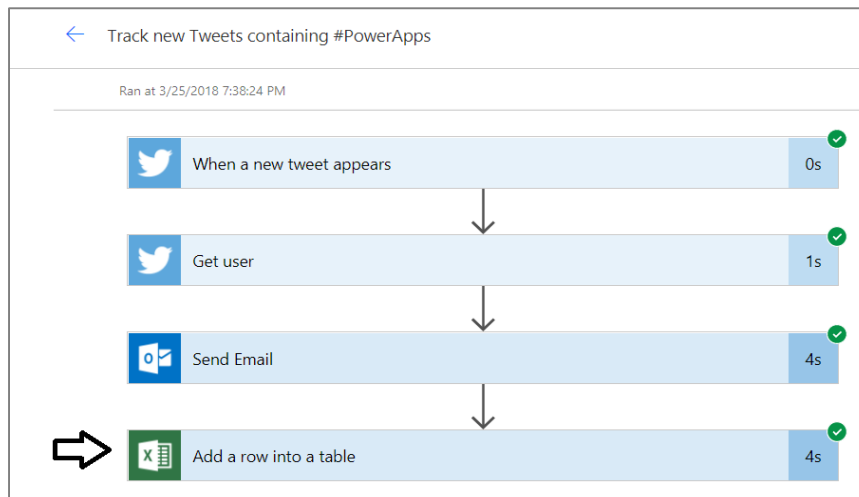
- Errors (2)**: A collapsed section header.
- When a new item is created (2)**: A collapsed section header for the first step.
- Include a Site Address.**: An error message associated with the Site Address parameter.
- Include a List Name.**: An error message associated with the List Name parameter.

Run History

- Flow provides history flows that have run

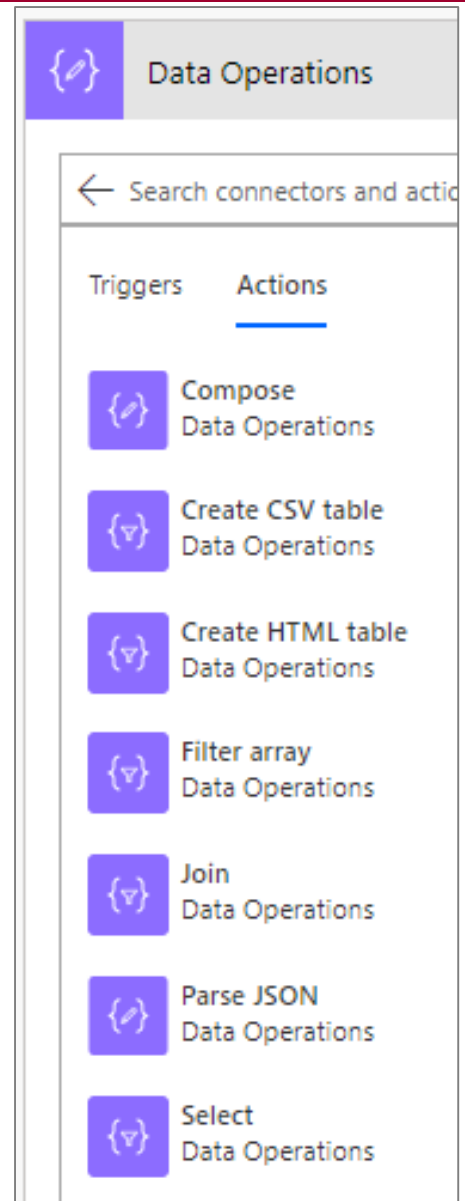
RUN HISTORY			
➡	✓ Succeeded	9 minutes ago	8 seconds
	✓ Succeeded	2 hours ago	0 seconds
	✓ Succeeded	3 hours ago	0 seconds

- Provides read-only view of data for auditing & monitoring



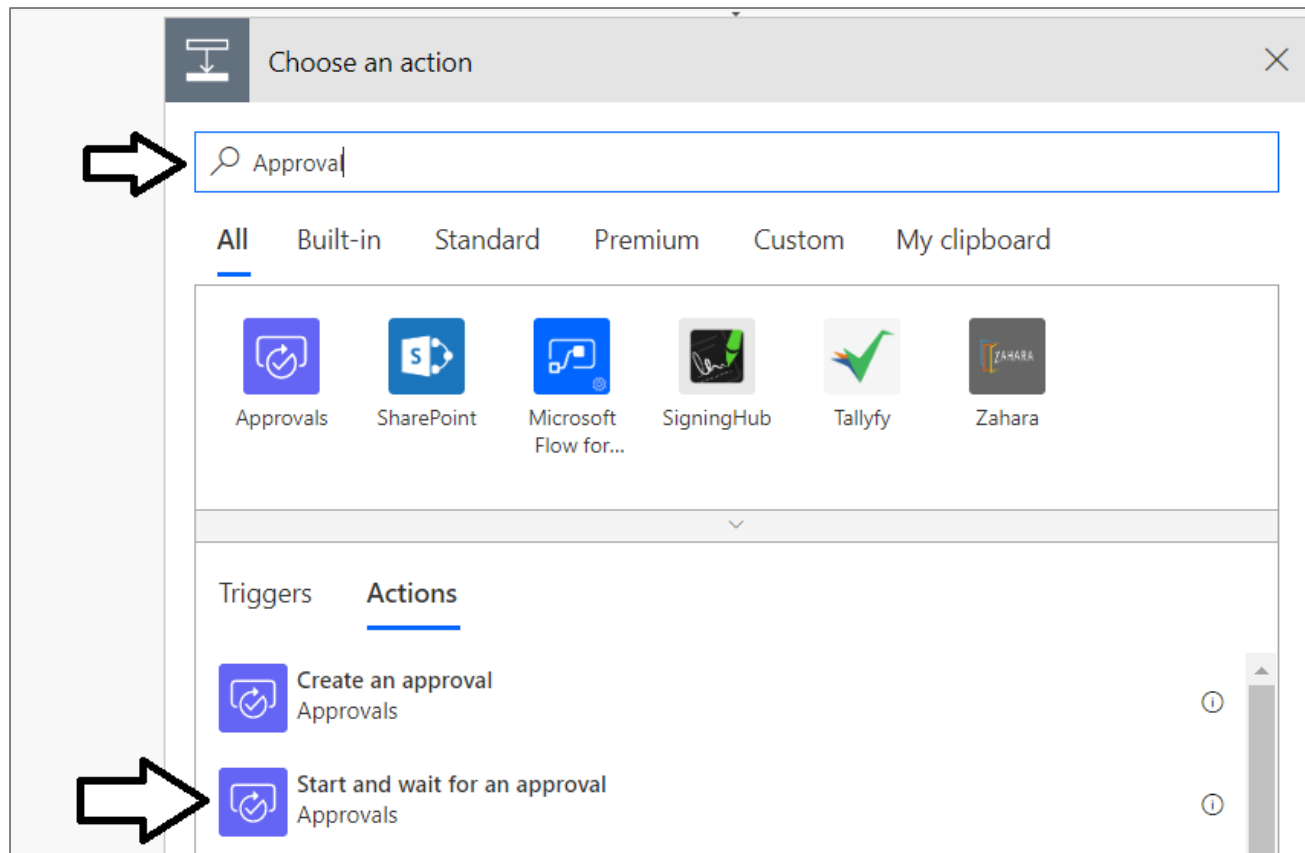
Actions with Data Operations

- Compose
 - Used to parse together text, HTML, JSON, etc.
- Create CSV Table
 - Used to export data files with CSV format
- Create HTML Table
 - Used to create HTML tables for use in email messages
- Filter Array
 - Filter the contents of an existing array
- Join
 - Parse email address array into single string
- Parse JSON
 - Parse JSON returned from HTTP call into an object
- Select
 - Remap the columns in an array



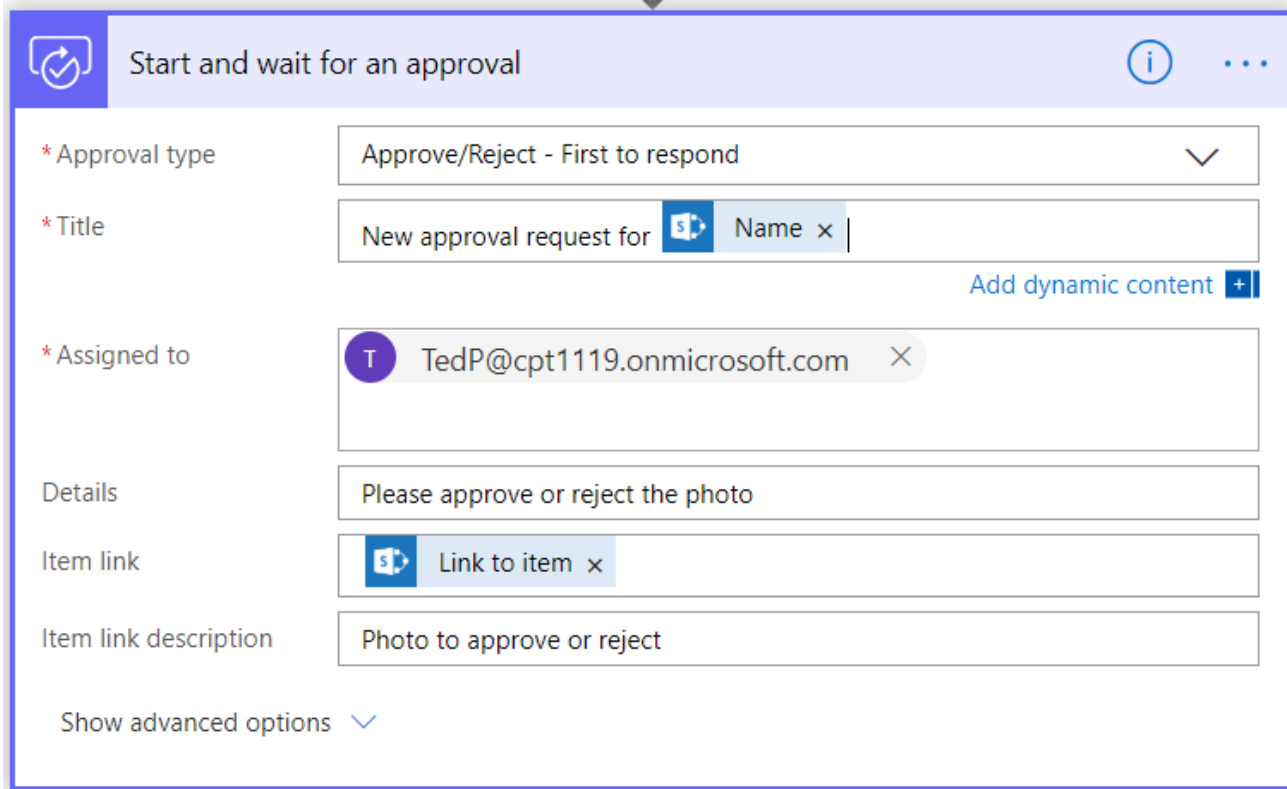
Add the Start an Approval Action

- An **Approval** process is added as an action
 - Select the Approvals action named **Start an approval**



Building Out The Start an Approval Action

- You provide data which is sent to approver



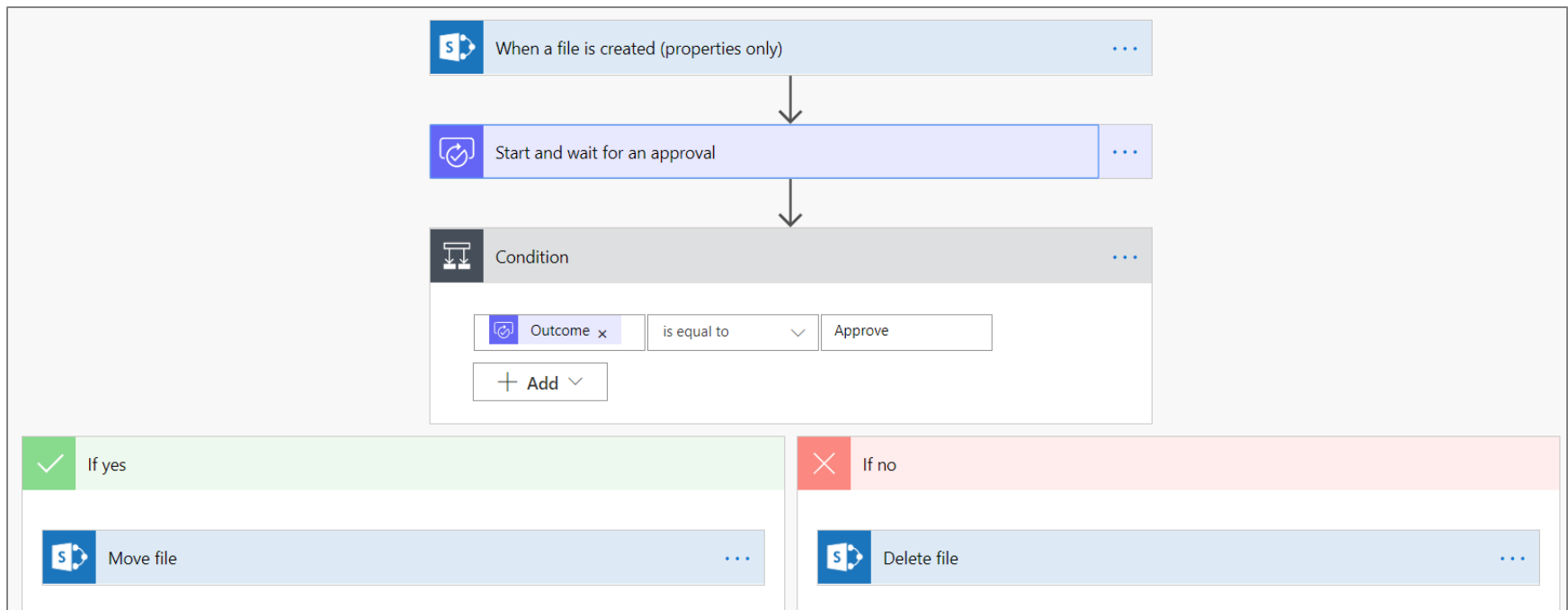
The screenshot shows a dialog box titled "Start and wait for an approval" with a checkmark icon and an information icon. The dialog contains several fields for configuring an approval request:

- * Approval type:** A dropdown menu set to "Approve/Reject - First to respond".
- * Title:** A text field containing "New approval request for" followed by a Teams icon, a blue box with "Name", and a close button (x). Below this field is a link "Add dynamic content" with a plus icon.
- * Assigned to:** A field showing a purple circle with a white "T" and the email "TedP@cpt1119.onmicrosoft.com" with a close button (x).
- Details:** A text field containing "Please approve or reject the photo".
- Item link:** A field showing a Teams icon, a blue box with "Link to item", and a close button (x).
- Item link description:** A text field containing "Photo to approve or reject".
- Show advanced options:** A link with a downward arrow.



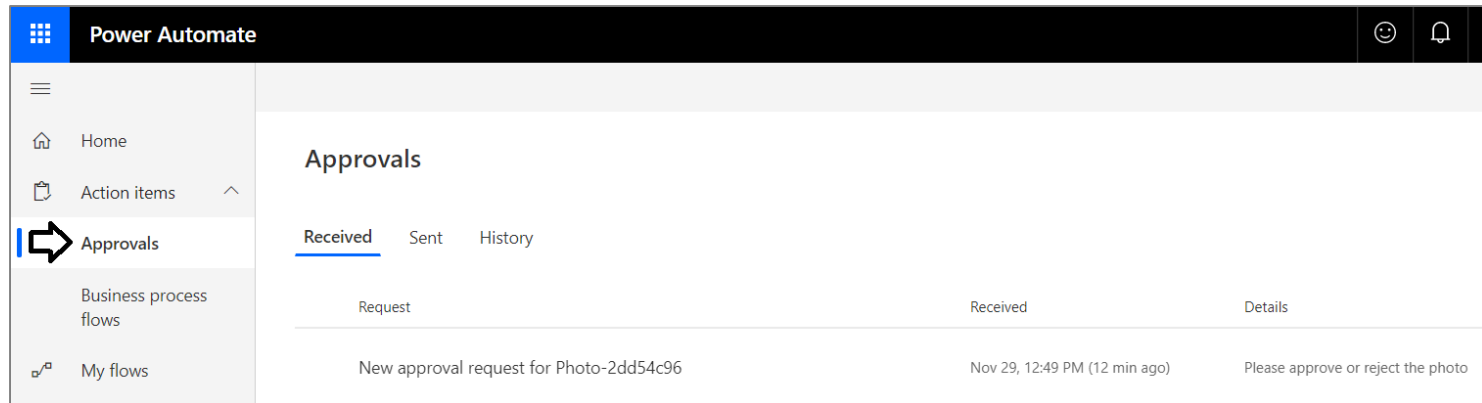
Responding to the Approval Response

- Start an Approval action followed by a condition
 - Allows flow to determine if approval was accepted or rejected
 - Condition provides If yes and If no branches for both outcomes



Approvals Center

- Microsoft Flow provides Approvals Center
 - Provides alternative to email for approve/reject processing
 - Accessible through browser
 - Provides monitoring of completed approvals and pending approvals



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- Introduction to the Common Data Service
 - Working with Model-driven Apps



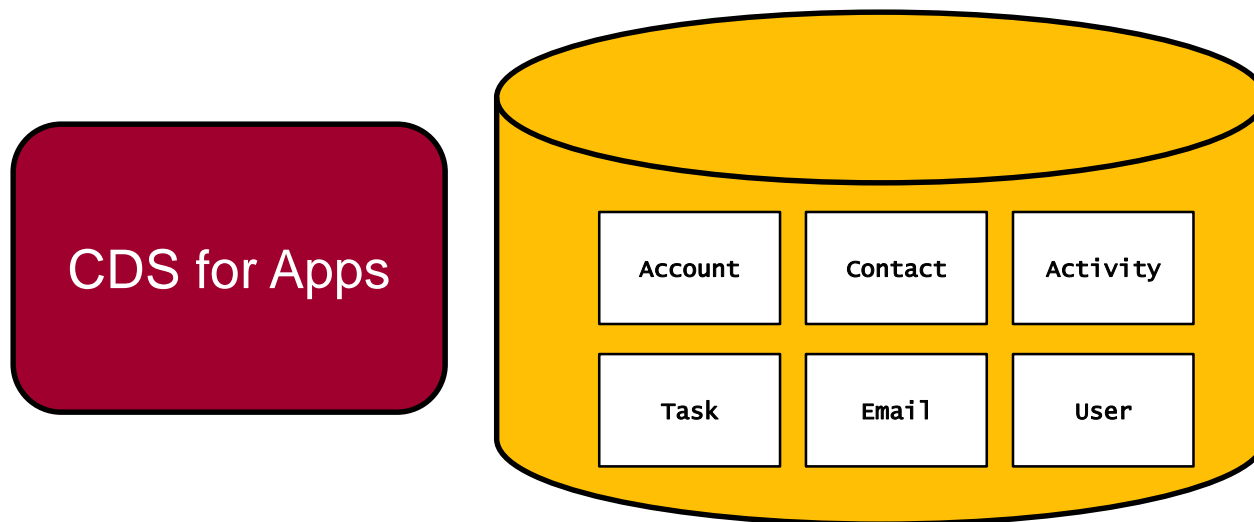
What is Common Data Service?

- Platform for building business applications
 - Business application include CRMs, ERPs, etc.
 - Provides common database infrastructure
 - Created to conform to the Common Data Model (CDM)
- What does Common Data Service provide?
 - Standard database schema of common entities
 - Extensible design for extending and creating entities
 - Ability to build entity-specific UI components
 - Ability to build entity-specific business logic
 - Ability to build apps by assembling components



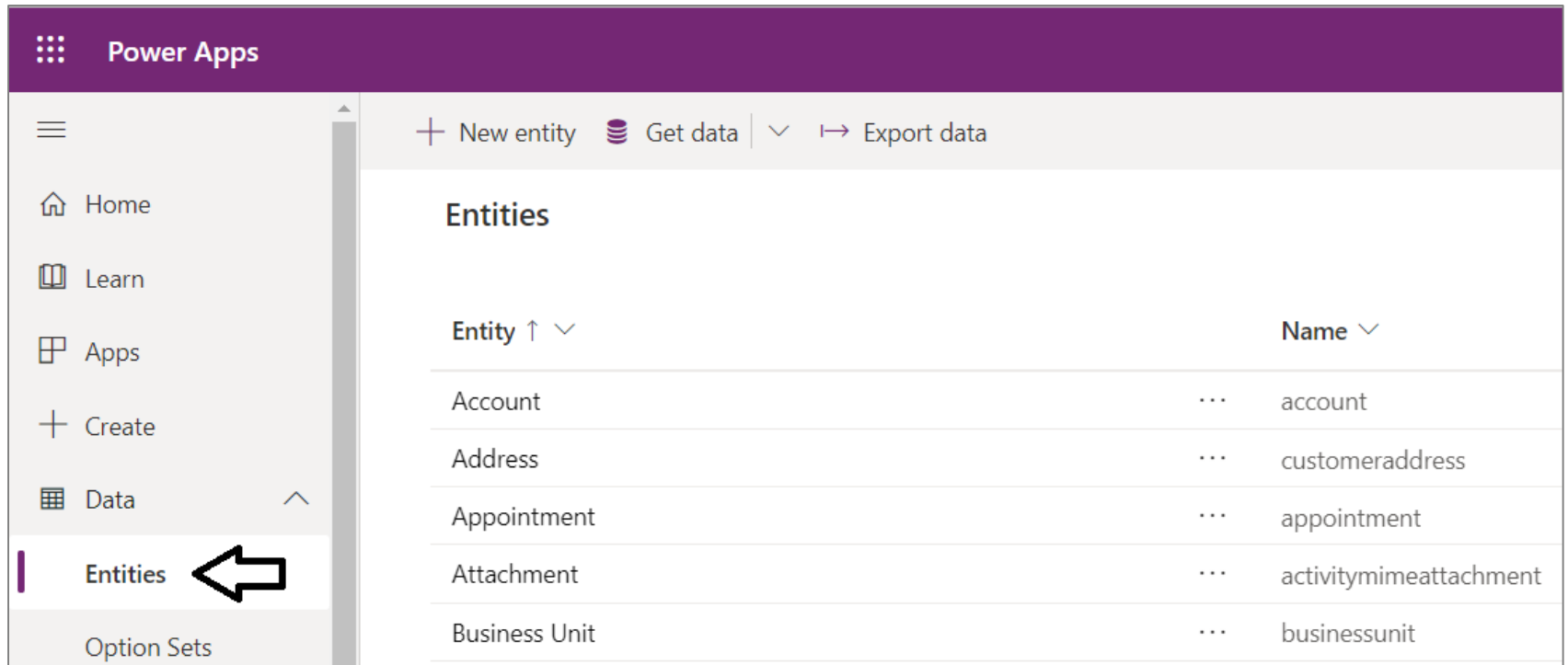
Common Database Model Schema

- CDM defines set of entities available to all applications
 - **Account:** represents an business entity that can be invoiced
 - **Contact:** represents a human being
 - **Activity:** represents an event that can be schedule
 - **Task:** represents work item that can be assigned to user or team
 - **Email:** represents email message sent or received
 - **User:** represents system user who can be owner of records



Inspecting the Standard Entities

- CDS created with set of standard entites



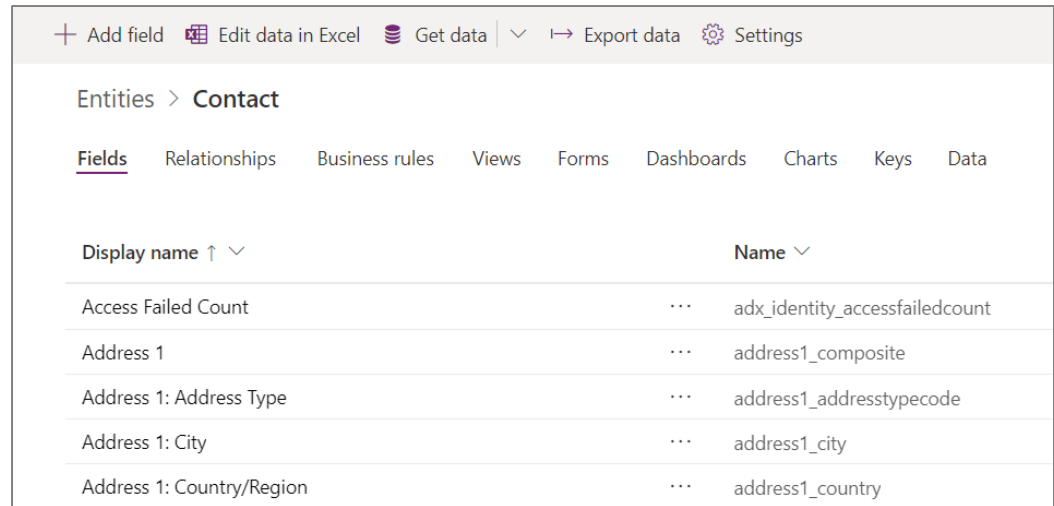
The screenshot shows the Power Apps interface. On the left is a navigation pane with options: Home, Learn, Apps, Create, Data, Entities (highlighted with a large black arrow), and Option Sets. The main area displays a table of standard entities. At the top of the main area are buttons for '+ New entity', 'Get data', and 'Export data'. The table has two columns: 'Entity' and 'Name'. The 'Entity' column lists: Account, Address, Appointment, Attachment, and Business Unit. The 'Name' column lists: account, customeraddress, appointment, activitiymimeattachment, and businessunit. Each row in the 'Name' column has a three-dot menu icon to its left.

Entity ↑ ▾	Name ▾
Account	... account
Address	... customeraddress
Appointment	... appointment
Attachment	... activitiymimeattachment
Business Unit	... businessunit



What Exactly is an Entity?

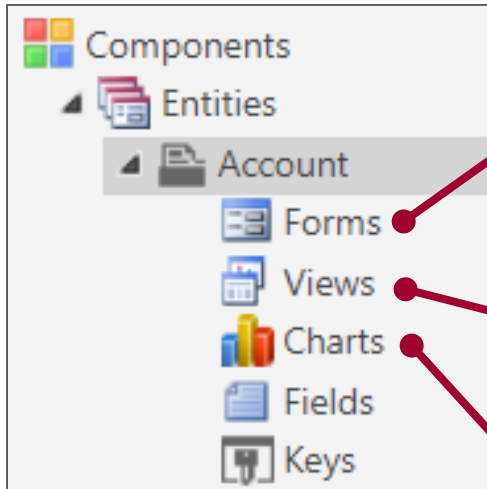
- Data components
 - Entity and Fields
 - Relationships
- UI components
 - Forms
 - Views
- Logic Components
 - Business rules
 - Business process flows
 - Workflows, Actions & Flows
- Visualization Components
 - Charts
 - Dashboards



+ Add field Edit data in Excel Get data Export data Settings		
Entities > Contact		
<u>Fields</u>	Relationships	Business rules Views Forms Dashboards Charts Keys Data
Display name ↑ ↓		Name ↓
Access Failed Count	...	adx_identity_accessfailedcount
Address 1	...	address1_composite
Address 1: Address Type	...	address1_addrstypetcode
Address 1: City	...	address1_city
Address 1: Country/Region	...	address1_country



Inside an Entity



System Forms **Active Forms** ▾

☐ New ▾ ☐ Delete ☐ Enable Security Roles ☐ Form Order ▾ ☐ Activate ☐ Deactivate ☐ More Actions ▾

Name	Form State	Form Type ↑	State	Customizable	Version	Description
Account Card form	Active	Card	Managed	True	8.0.0.0	Default Account card form.
Account for Interactive experie...	Active	Main	Managed	True	8.0.0.0	Default Interactive experience Account form.
Account	Active	Main	Managed	True	5.0.0.0	Updated default Account form.
Account Quick Create	Active	Quick Create	Managed	True	6.0.0.0	Default quick create form for Account

View: All Active Views

☐ New ☐ X ☐ More Actions ▾

Name ↑	Type	State	Customizable	Description
Account Advanced Find View	Advanced Find View	Managed	True	
Account Associated View	Associated View	Managed	True	Displays information about related accounts in the detail form of ...
Account BulkOperation View	Associated View	Managed	True	Display Accounts for BulkOperation View
Account List Member View	Associated View	Managed	True	Displays information about related accounts in the Members subg...

☐ New ☐ X ☐ More Actions ▾

Name ↑	State	Customizable	Description
Accounts by Industry	Managed	True	Shows the total number of accounts by industry.
Accounts by Owner	Managed	True	Shows the total number of accounts by owner.
Accounts by Owner - Tag Chart	Managed	True	Shows the total number of accounts by owner in a tag chart.
New Accounts By Month	Managed	True	Shows the number of new accounts in a month.

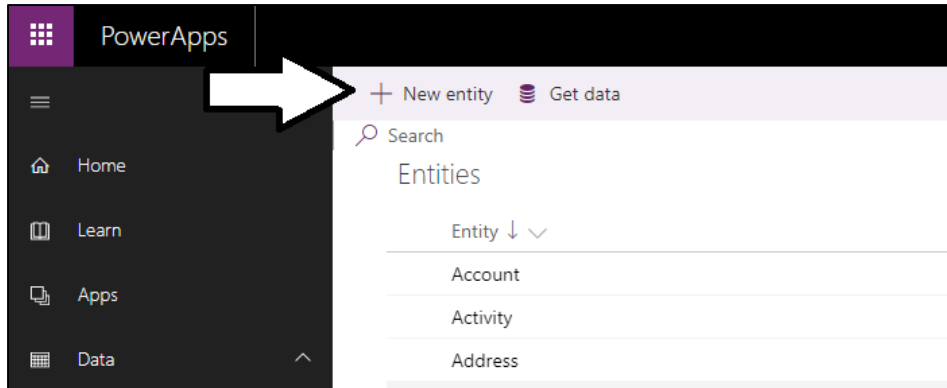


CDS Extensibility

- You can modify most standard entities
 - Modification involves adding fields
 - Existing fields cannot be modified or removed
 - System entities cannot be modified
- You can create custom entities
 - Herein lies the ability to design complex business apps



Creating a Custom Entity



New entity

Display name *

Plural display name *

Name *

 ⓘ

Description

Next Cancel



Adding Custom Fields

Entities > Product

Fields

Relationships

Business rules

Views

Keys

Data

Display name ↓ ▾		Data type ▾	Type ▾	Required ▾
List Price	...	Currency	Custom	
List Price (Base)	...	Currency	Custom	
Product Available	...	Two Options	Custom	
Product Category	...	Option Set	Custom	
Product Code	...	Text	Custom	✓
Product Description	...	Text Area	Custom	
Product Image	...	Image	Custom	
Product Name	...	Text	Custom	✓



Core System Fields Added to All Entities

Entities > Product		
Fields	Relationships	Business rules
Views	Keys	Data
Display name ↓		Data type ↓
Created By	...	Lookup System
Created By (Delegate)	...	Lookup System
Created On	...	Date and Time System
Currency	...	Lookup Standard
Exchange Rate	...	%, Decimal Number Standard
Import Sequence Number	...	Whole Number System
List Price	...	Currency Custom
List Price (Base)	...	Currency Custom
Modified By	...	Lookup System
Modified By (Delegate)	...	Lookup System
Modified On	...	Date and Time System
Owner	...	Owner System
Owning Business Unit	...	Lookup System
Owning Team	...	Lookup System
Owning User	...	Lookup System
Product	...	Unique Identifier System
Product Available	...	Two Options Custom
Product Category	...	Option Set Custom
Product Code	...	Text Custom
Product Description	...	Text Area Custom
Product Image	...	Image Custom
Product Name	...	Text Custom
Record Created On	...	Date Only System
Status	...	Option Set System
Status Reason	...	Option Set System
Time Zone Rule Version Number	...	Whole Number System
UTC Conversion Time Zone Code	...	Whole Number System
Version Number	...	Big Integer System

Product	...	Unique Identifier	System
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Created By	...	Lookup	System
Created By (Delegate)	...	Lookup	System
Created On	...	Date and Time	System

Modified By	...	Lookup	System
Modified By (Delegate)	...	Lookup	System
Modified On	...	Date and Time	System

Owner	...	Owner	System
Owning Business Unit	...	Lookup	System
Owning Team	...	Lookup	System
Owning User	...	Lookup	System

Record Created On	...	Date Only	System
Status	...	Option Set	System
Status Reason	...	Option Set	System
Time Zone Rule Version Number	...	Whole Number	System
UTC Conversion Time Zone Code	...	Whole Number	System
Version Number	...	Big Integer	System



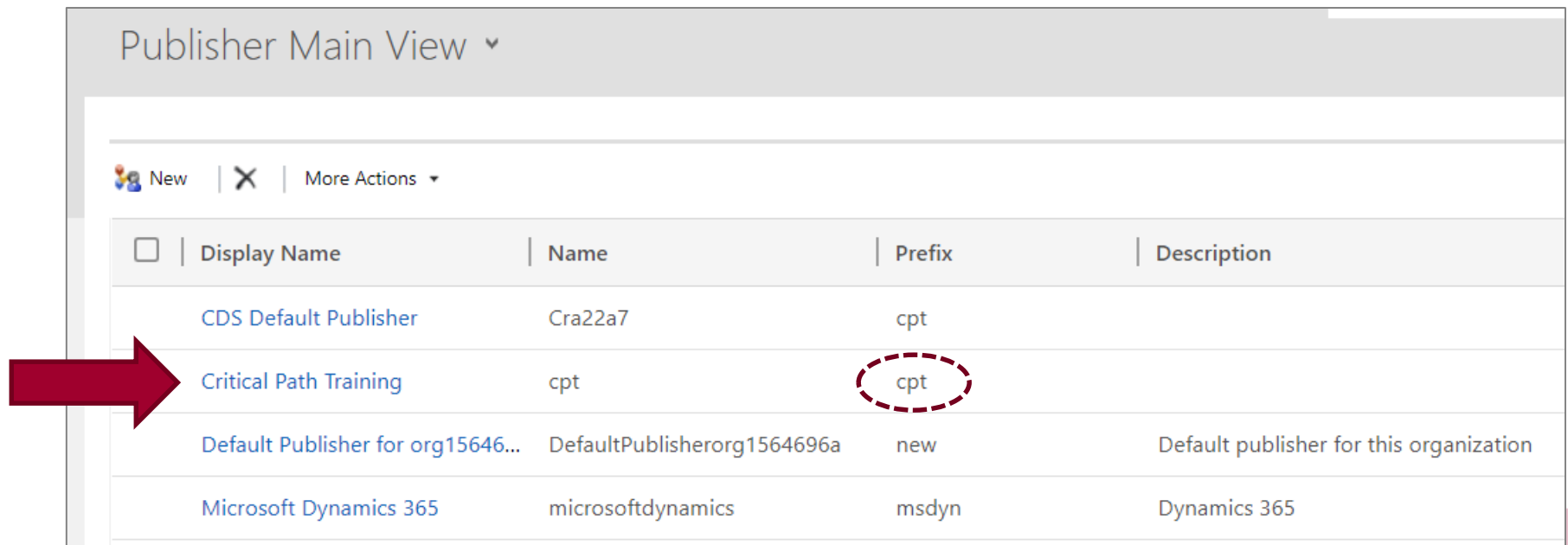
Introduction to Solutions

- Solutions used to move configuration between environments
 - Solutions used to move metadata (e.g. custom entity, model-driven apps)
 - Solutions not used to move business data itself
- Solutions can be managed or unmanaged
 - Unmanaged solutions is "open" solution which allows changes
 - Managed solutions are locked down and do not allow changes.
 - During development, you work with an unmanaged solution
 - When you export solutions, export is created as managed or unmanaged
- When you import a managed solution, it is in lockdown mode
 - You cannot modify or remove application components or customization
 - Managed solution is serviceable and upgradable
 - Uninstalling managed solution removes everything





Publishers and Solutions

- CDSA solutions used to distribute applications
 - Provides means to conduct ALM
- CDSA Publishers
 - Profile used to provide identity for CDSA solutions
 - You should create new publisher when distributing solutions



Publisher Main View ▾

 New |  | More Actions ▾

<input type="checkbox"/>	Display Name	Name	Prefix	Description
	CDS Default Publisher	Cra22a7	cpt	
	Critical Path Training	cpt	cpt	
	Default Publisher for org15646...	DefaultPublisherorg1564696a	new	Default publisher for this organization
	Microsoft Dynamics 365	microsoftdynamics	msdyn	Dynamics 365

Creating a New CDSA Solution

New solution

×

Display name *

Critical Path CDSA Demo

Name *

CriticalPathCDSADemo

Publisher *

Critical Path Training

Version *

1.0.0.0

PowerApps

Home

Learn

Apps

Create

Data

+ New solution

← Import

Open AppSource

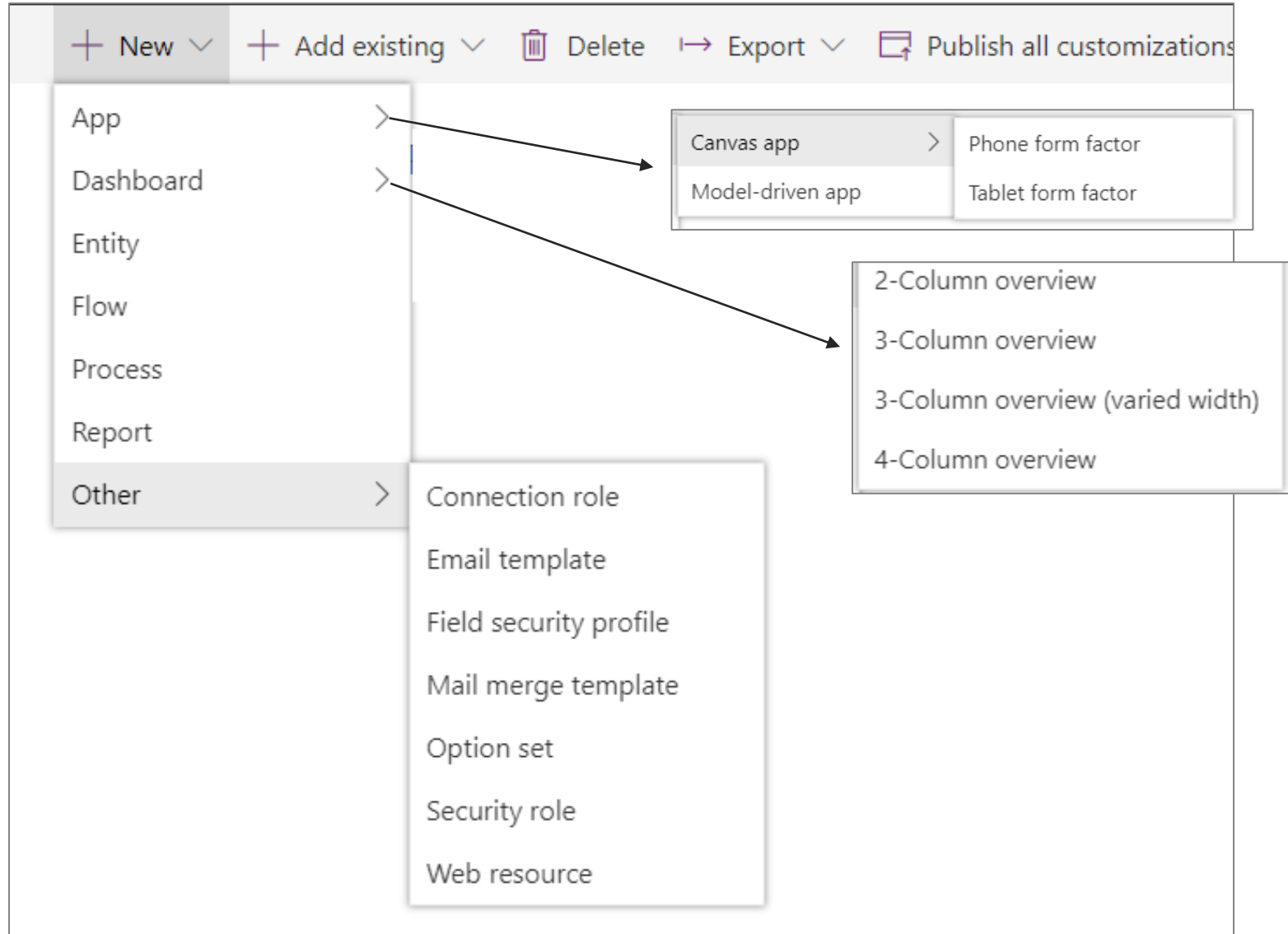
Publish all customizations

Switch to classic

Solutions

Display name		Created ↓	Version
Critical Path CDSA Demo	...	1/31/2019	1.0.0.0
Common Data Services Default Solution	...	1/26/2019	1.0.0.0
Default Solution	...	1/26/2019	1.0

Adding Solution Components

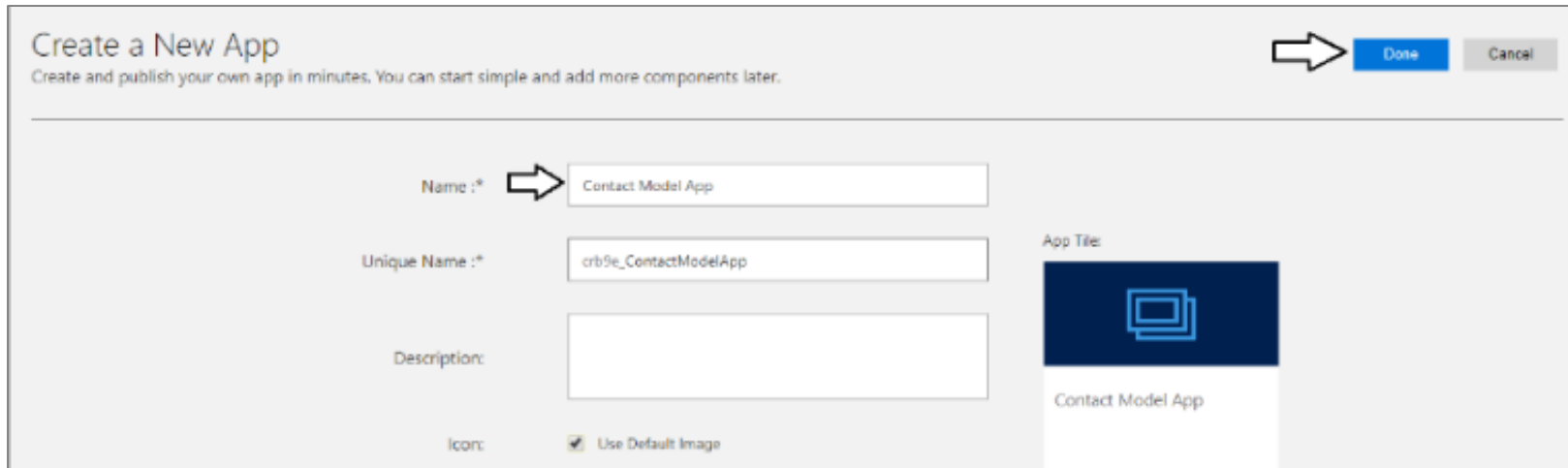
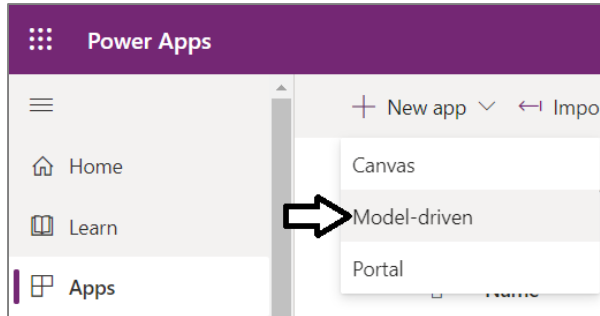


Agenda

- ✓ Getting Started with the Power Platform
- ✓ Creating Canvas Apps in Power Apps
- ✓ Creating Flows in Power Automate
- ✓ Introduction to the Common Data Service
- Working with Model-driven Apps



Creating a Model-driven App



The image shows the 'Create a New App' form. At the top, it says 'Create a New App' and 'Create and publish your own app in minutes. You can start simple and add more components later.' There are 'Done' and 'Cancel' buttons at the top right. The form has several fields: 'Name :*' with the value 'Contact Model App', 'Unique Name :*' with the value 'crb9e_ContactModelApp', and a 'Description:' field. There is also an 'Icon:' section with a checked box for 'Use Default Image'. On the right, there is an 'App Title:' section with a blue icon and the text 'Contact Model App'. A white arrow points to the 'Name :*' field.



Creating the Sitemap Component

The screenshot shows the PowerApps Sitemap Designer interface for an application named "Contact Manger". The top navigation bar includes the PowerApps logo and the text "App Designer > Sitemap Designer". The main workspace displays a sitemap structure with a root node "My Contacts App" and a child node "Manage Contacts". Under "Manage Contacts", there is a component labeled "Contacts". A toolbar at the top of the workspace provides actions: Add, Cut, Copy, Paste, Clone, and Delete. On the right side, the "Properties" pane is active, showing the "General" section. The "Type" property is set to "Entity", the "Entity" property is set to "Contact", and the "URL" property is currently empty. The top right of the interface includes "Save", "Save And Close", and "Publish" buttons, along with a "Published" status indicator.

PowerApps

App Designer > Sitemap Designer

Contact Manger

Published

Save Save And Close Publish

Add Cut Copy Paste Clone Delete

My Contacts App

Manage Contacts

Contacts

Components Properties

SUB AREA

General

Type

Entity

Entity *

Contact

URL



Publishing and Running the App

The screenshot displays the Microsoft PowerApps App Designer interface for an application named "Contact Manger". The top navigation bar includes the PowerApps logo and the text "App Designer". The main header area shows the application name "Contact Manger" and a status bar indicating "Last Saved on :11/30/2019 5:27 PM Published". Action buttons for "Save", "Save And Close", "Validate", "Publish", and "Play" are visible.

The central canvas area is divided into sections for app components:

- Site Map:** Contains a "Site Map" component with an edit icon.
- Dashboards:** Contains a "Dashboards" component with an edit icon and an "All" filter.
- Entity View (1):** A section containing a list of components: "Contact", "Forms" (with an edit icon and "All" filter), "Views" (with an edit icon and "All" filter), and "Charts" (with an edit icon and "All" filter).
- Business Process Flows:** A section for defining business process flows.

On the right side, the "Components" pane is active, showing a list of available components under the "ARTIFACTS" and "ENTITY ASSETS" categories:

- ARTIFACTS:**
 - Entities: Model and ma...
 - Dashboards: Provide an insi...
 - Business Proc...: Define a seque...
- ENTITY ASSETS:**
 - Forms: Define how us...
 - Views: Create a list vi...

The bottom right corner of the interface features a small logo consisting of three overlapping squares in purple, yellow, and red.

Testing a Model-driven App

The screenshot displays the Microsoft PowerApps 'Contact Manger' application. The interface features a purple header bar with the 'PowerApps' logo and a dropdown menu, and a search bar with icons for search, share, add, filter, settings, help, and user profile. A left-hand navigation pane includes a hamburger menu, 'Home', 'Recent', 'Pinned', and a 'Manage Contacts' section with a 'Contacts' link. The main content area is titled 'New Contact' and includes a 'Save' button, a 'Save & Close' button, a '+ New' button, and a 'Flow' dropdown. The contact details are as follows:

CONTACT INFORMATION	
First Name	Bill
Last Name	Gates
Job Title	Philanthropists
Account Name	<input type="text" value="Look for Records"/>
Email	---

On the right side of the form, the user 'Ted Pattison' is listed as the 'Owner'. Below the contact information, there is a 'Timeline' section with the message: 'This record hasn't been created yet. To view this record, save it to your timeline.'



Summary

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