





# App in a Day Microsoft Power Platform

**Power Apps** 

**Power Automate** 

Microsoft Dataverse



### About me

### **Boonthawee Tangsoonthornthum (Thor)**

Solutions Lead at MISO Digital boonthawee.t@miso.co.th

Microsoft Certified Trainer
Microsoft 365 Certified: Enterprise Administrator Expert
Microsoft 365 Certified: Security Administrator Associate
Microsoft Certified: Power Platform Functional Consultant
Microsoft Certified: Azure Fundamentals























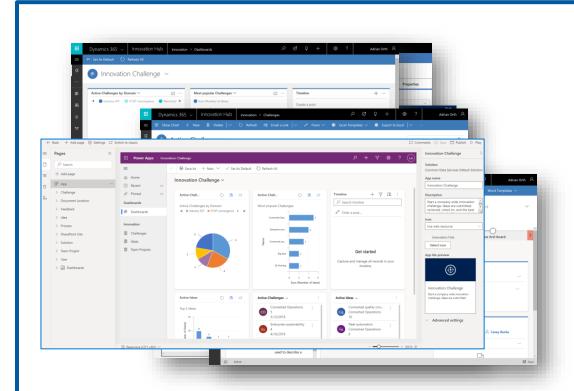




Module 3: Power Apps Model-driven Apps

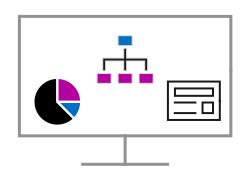


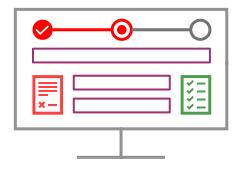
**Canvas apps** start with user experience, with pixel-perfect control to build highly customized task- and role-based apps that mash up data from hundreds of sources

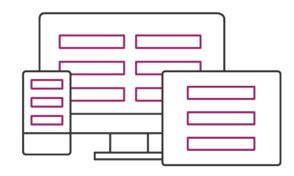


**Model-driven apps** leverage your data model, relationships, and business processes to automatically generate immersive, responsive applications

## Power Apps Model-driven apps provides a metadatadriven architecture for creating and customizing apps without writing code







Rich <u>component-</u> <u>focused</u> no-code design environments Easily add <u>business rules</u> and <u>business process flows</u> to model your business processes Complex <u>responsive apps</u> on web and mobile

Component-focused approach to app development

#### **Create apps around forms and processes**

A way of app development using tables, forms and business processes.

#### **Design sophisticated table forms quickly**

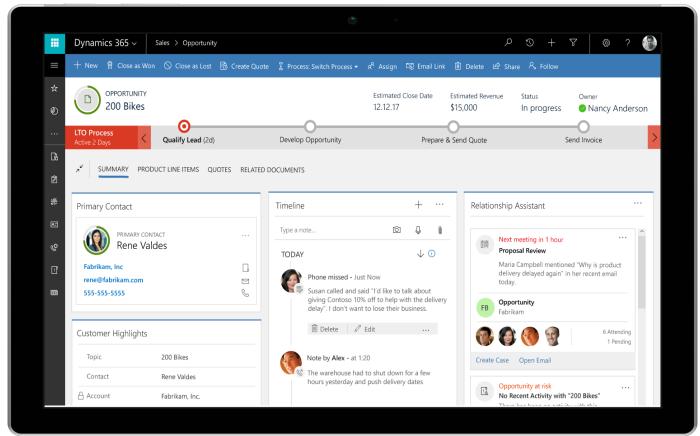
Drag and drop fields and controls in a visual designer. Forms can span multiple columns, multiple steps, and collapsible sections.

#### Rich, responsive client experiences

Responsive UI automatically reflows across devices based on the space available.

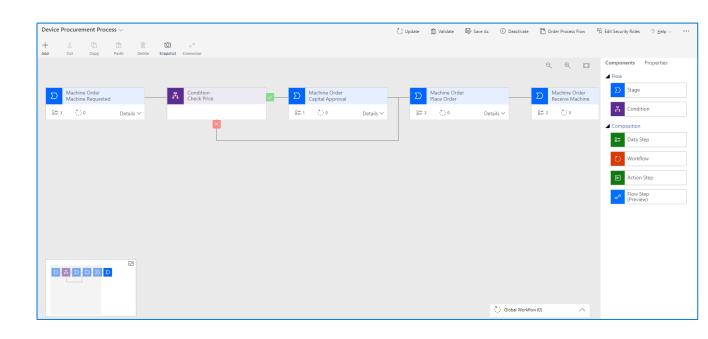
#### **Enables easy reuse across multiple apps**

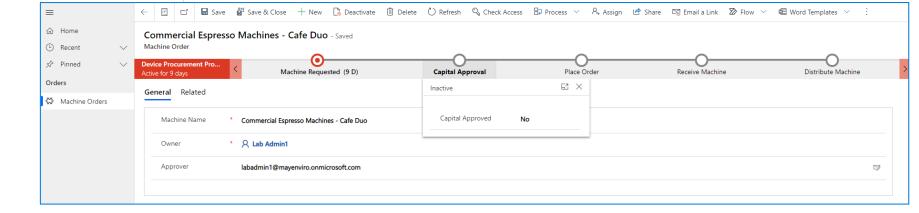
Easily share forms, dashboards, flows, and more across multiple apps.



### **Business Process Flow**

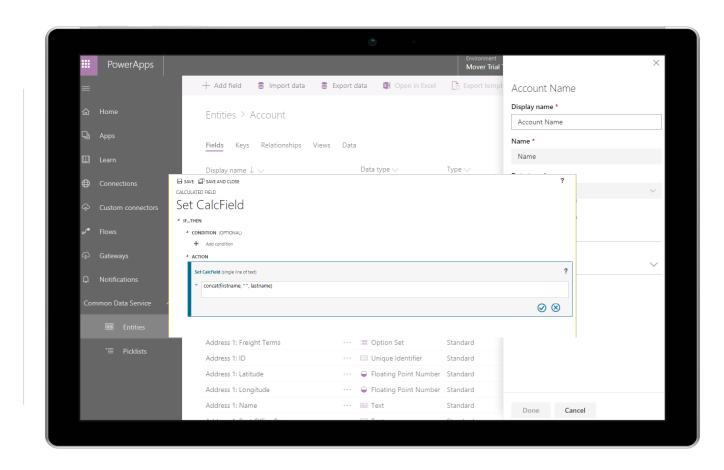
- Visual indicators that tell users where they are in the business process
- Reduce the need for training
- Configurable to support common line of business methodologies





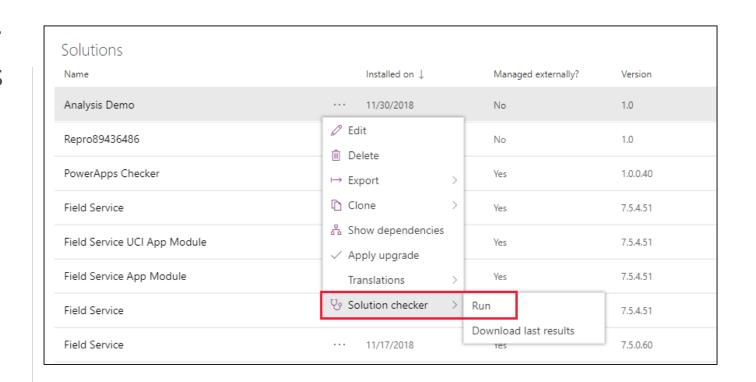
## Server-Side Logic

- Server-side logic bound to tables, works across all apps
- Create calculated and roll up columns
- Easily create validation and set default values
- Update related tables with synchronous workflows



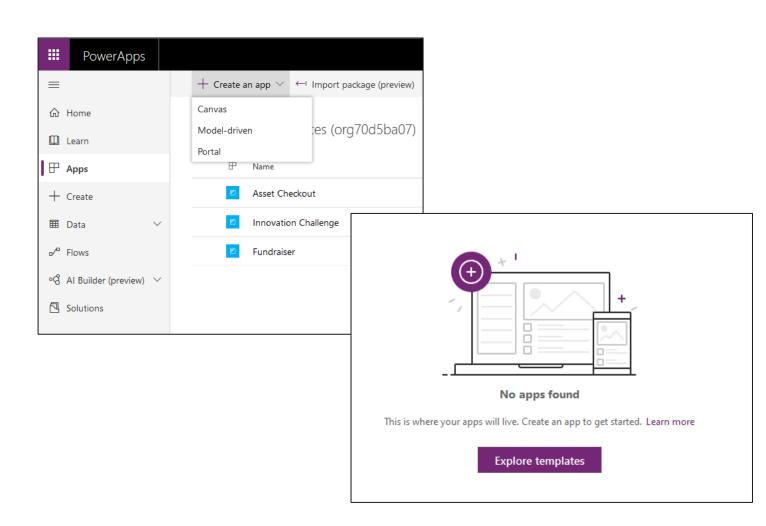
## Developer Capabilities

- Robust solution framework for application install and updates
- Integrated solution checker to identify potential issues and accessibility concerns
- RESTful (OData) web API
- .NET SDK
- Sandbox instances for ALM operations



## Power Apps Maker Portal [https://make.powerapps.com/]

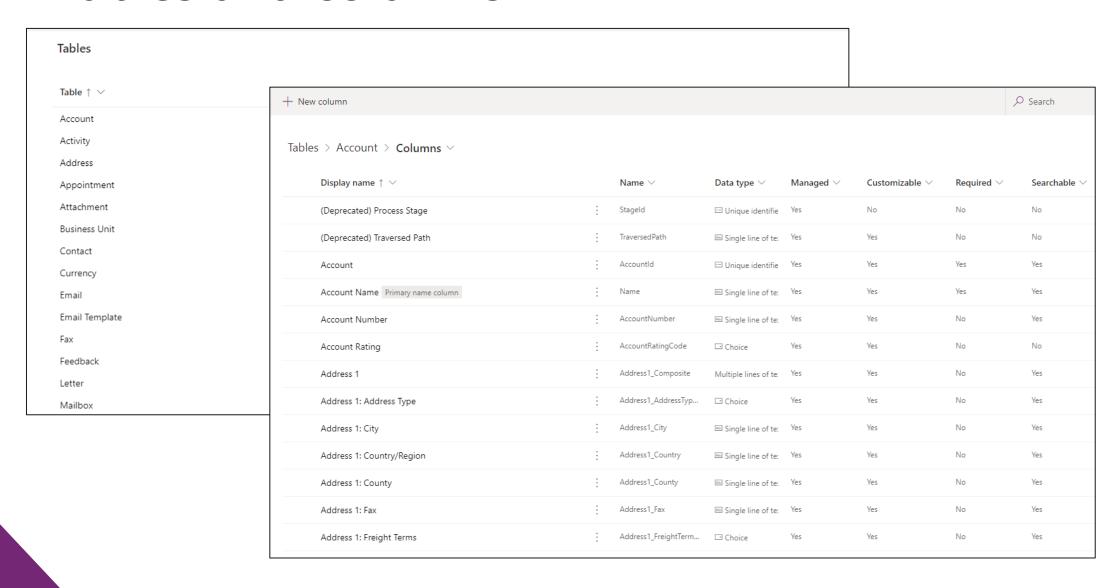
- Create new apps
- Explore sample apps and templates
- Manage and configure your apps



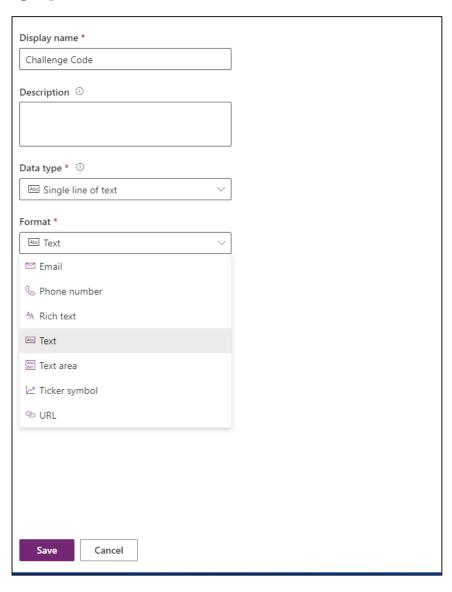
# Model-driven app components - Data

Component	Description
Table	An item with properties that you track, such as a contact or account. Many standard tables are available. You can customize a non-system standard table (production table) or create a custom table from scratch.
Column	A property that is associated with a table. A column is defined by a data type, which determines the type of data that can be entered or selected. Examples include text, number, date and time, currency, or lookup (creates a relationship with another table). Columns typically are used with forms, views, and searches.
Relationship	Table relationships define how tables can be related to each other. There are 1:N (one-to-many), N:1 (many-to-one), and N:N (many-to-many) types of relationships . For example, adding a lookup field to a table creates a new 1:N relationship between the two tables and lets you put that lookup on a form.
Choice	This is a special type of column, which provides the user a set of predetermined options. Each option has a number value and label. When added to a form, this column displays a control for the user to select an option. There are two types; <i>choice</i> , where the user can only select one option; and <i>multi-select choices</i> , which allow more than one selection.

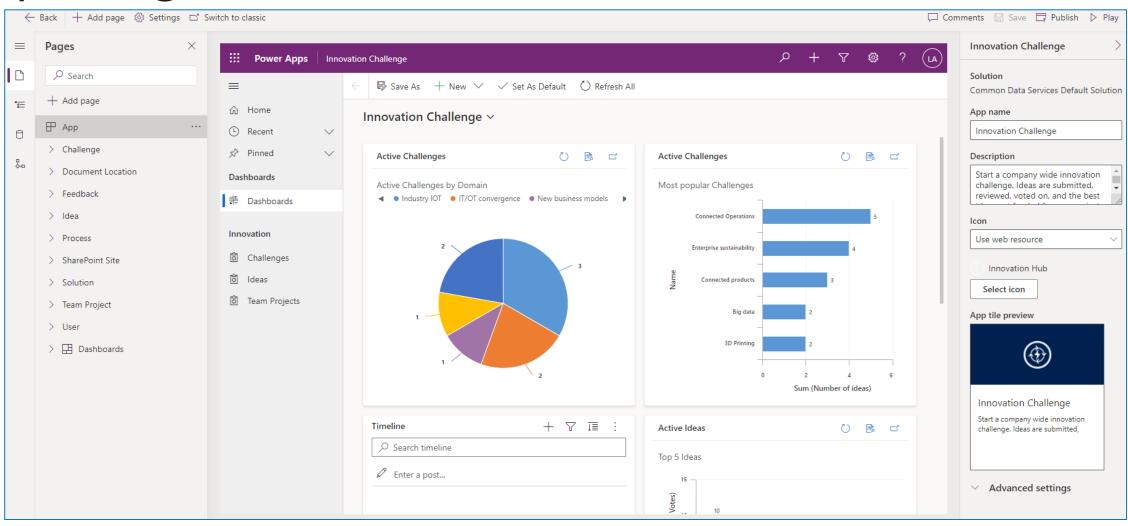
### Tables and columns



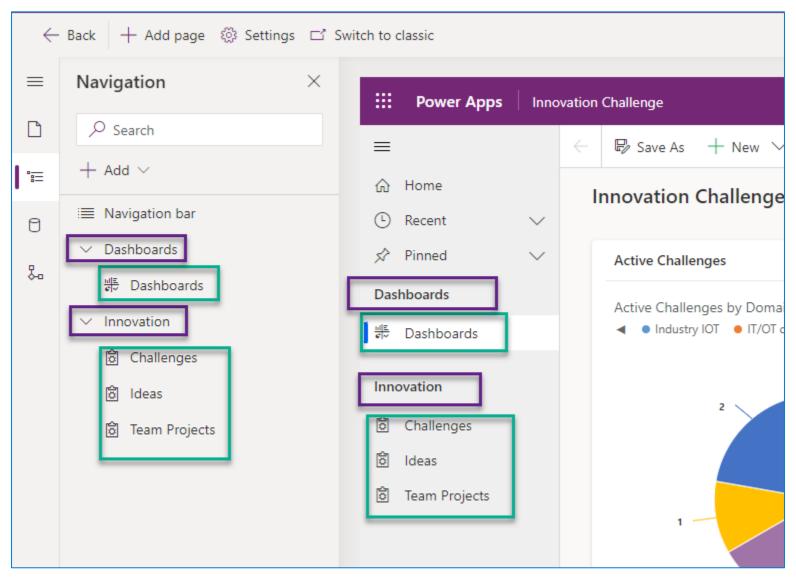
## Configurable data type for columns



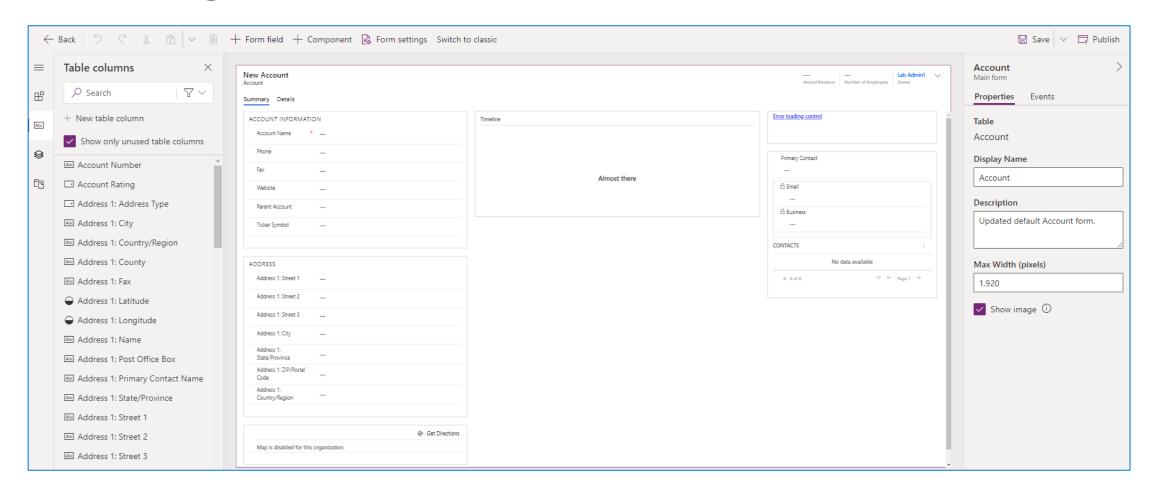
## App designer



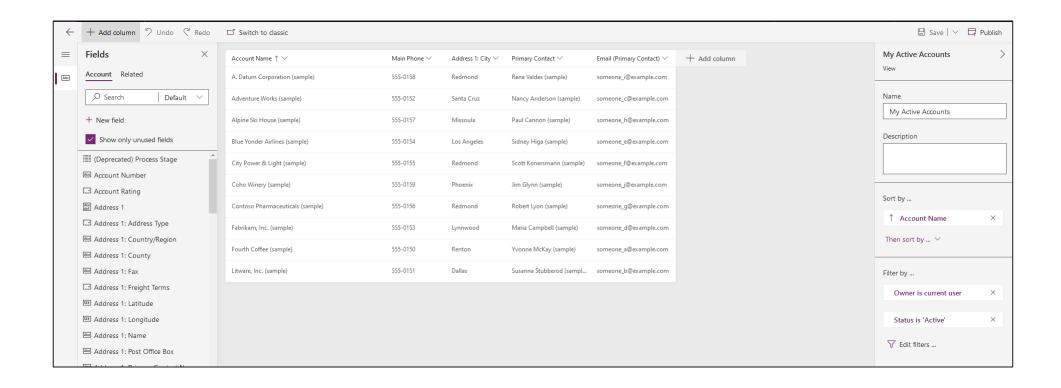
## Navigation



## Form designer

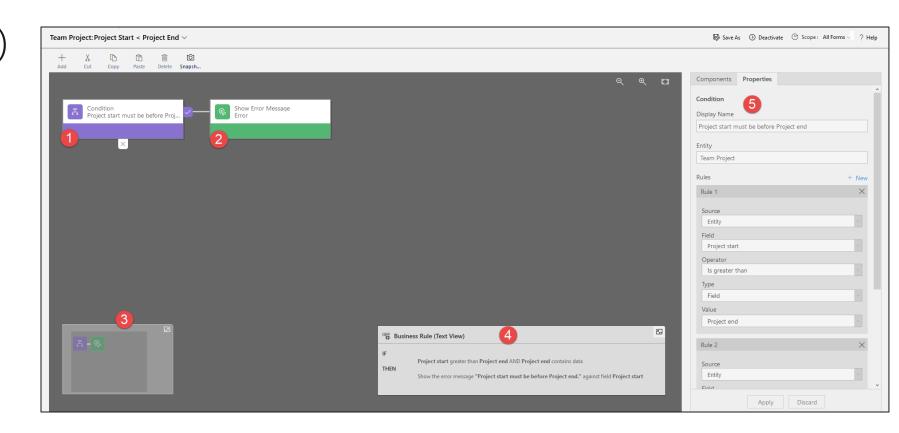


## View designer

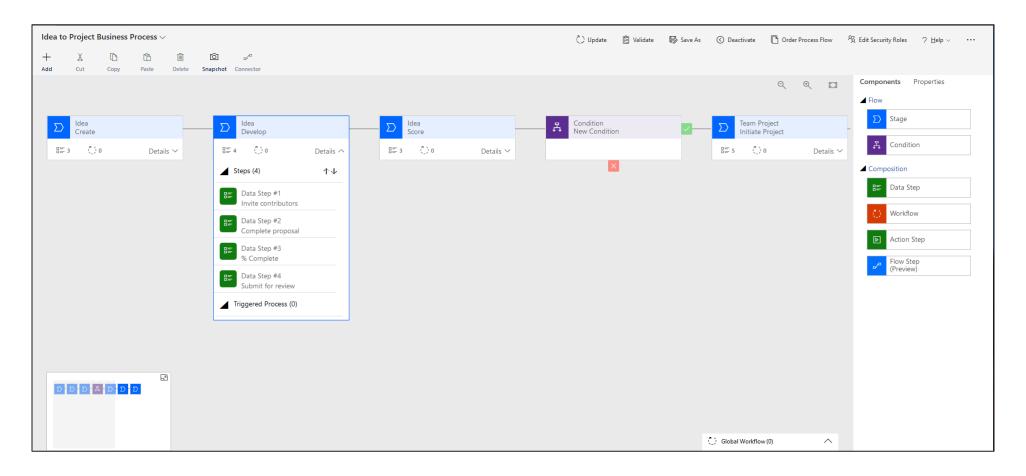


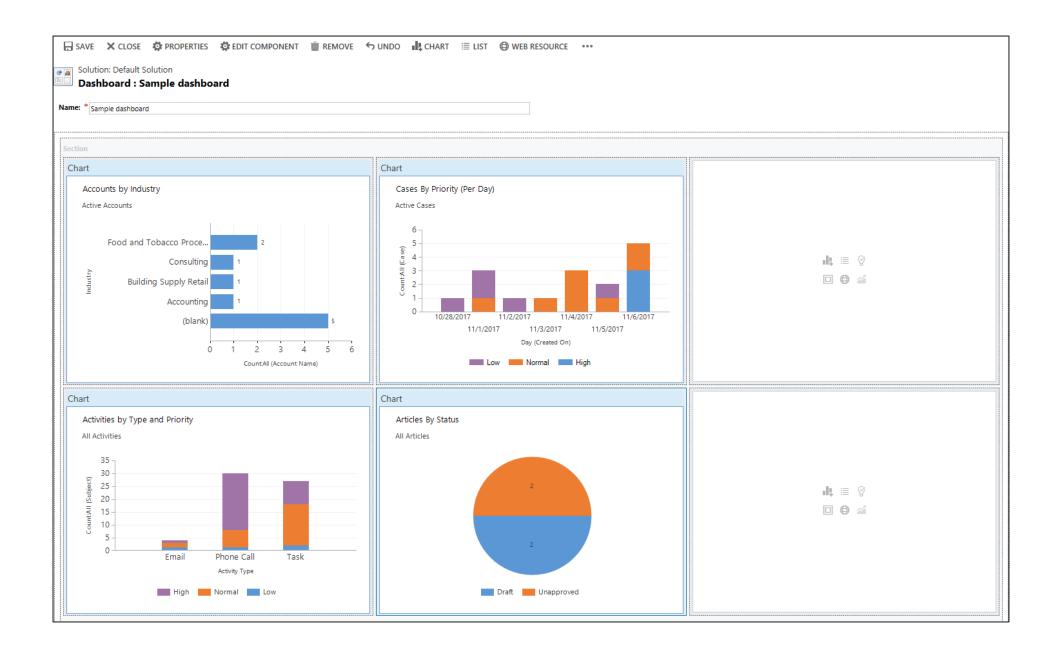
## Business Rule designer

- 1. Condition (if this)
- 2. Action (do this)
- 3. Visualize
- 4. See the "code"
- 5. Define the rules and add more components



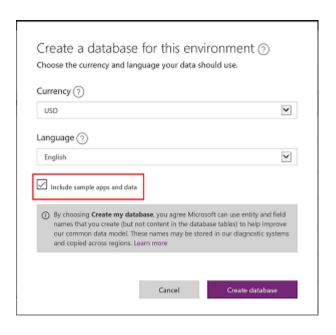
## Business Process Flow designer

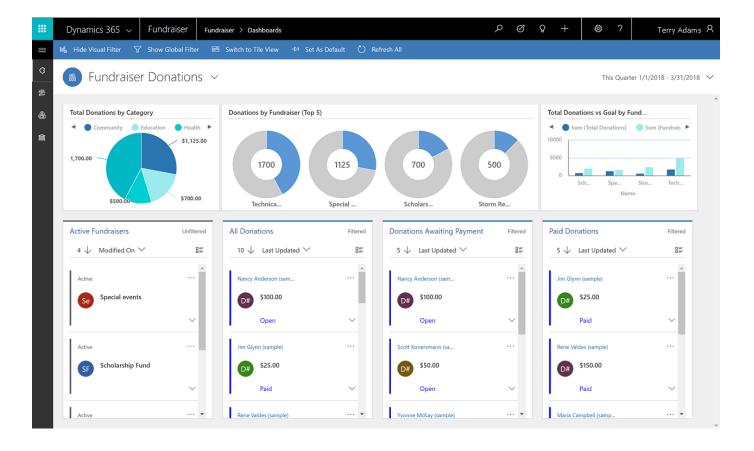




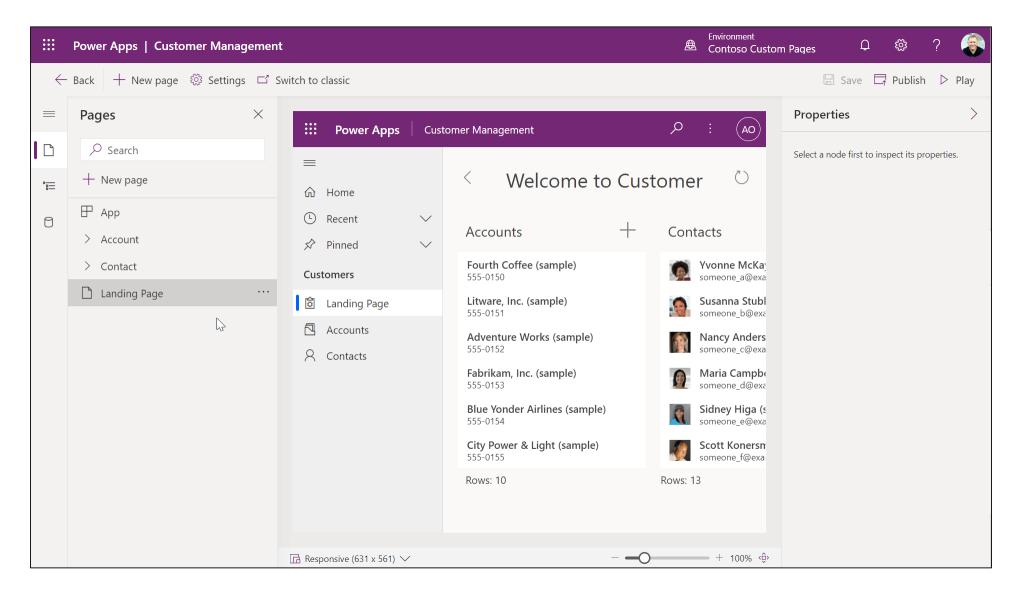
## Model-driven sample apps

In order to explore or edit model-driven sample apps, the apps must first be provisioned in a Dataverse database. First create a trial environment and database and be sure to check **Include sample apps and data**.





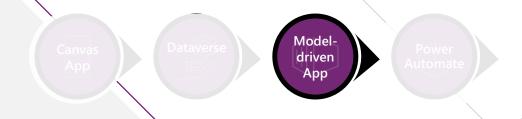
## Custom pages in model driven apps





## Hands-on-lab 3

Module 3: Power Apps Model-driven App



## Module 3: Learning objectives



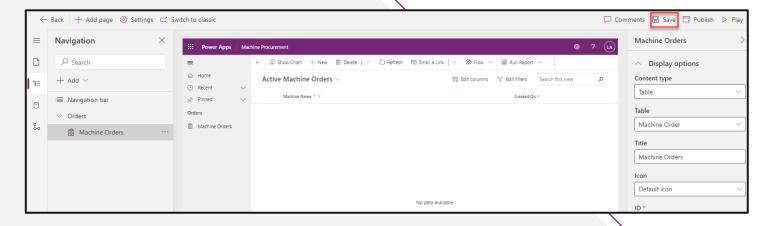
Create a standalone model-driven app

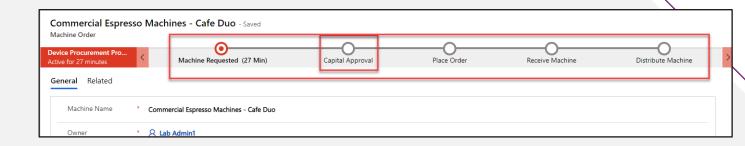


Customize forms for the model-driven app



Create a Business Process Flow







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