Building Great Solutions with PowerApps and Flow

David Drever

- Digital Workplace Services Lead
- Office Servers & Services MVP
- Saskatchewan SharePoint/O365 User Group (https://www.meetup.com/SKSPOUG/

Where I am:

- Email: **david.drever@solvera.ca**
- Twitter: **@DavidMDrever**
- Blog: **http://prairiedeveloper.com**

Agenda

1. What are Business Solutions?
2. PowerApps & Flow High Level View
3. Customizing Forms with PowerApps
4. Automating Your Processes with Microsoft Flow
5. Connectors: It's more than just SharePoint

Business Solutions

Business Solutions

No Code???

To increase functionality you can utilize:

- Collections
- Global and context scoped variables
- Object Actions\Events (OnSelect, OnVisible, etc)
- Looping (ForAll)
- A lot more…

No Code???

This isn't code???

```
If(SharePointForm1.Mode = New,
{'@odata.type':"#Microsoft.Azure.Connectors.SharePoint.SPListExpandedReference",
   Id:0,
  Value:"Orange"},
ThisItem.TestChoice)
```

Ok, so this isn't code then…

```
Distinct(
    Filter(
        approverList,ProjectEvent.Value=DataCardValue2_1.Selected.Value
        ),SocialMediaApprover.DisplayName
    )
```

Business Solutions

Some Business Apps intended to answer *No Code* needs

Very very quickly *No Code* becomes *Some Code*

PowerApps

PowerApps

- Successor to InfoPath
- Low-code form builder for PowerUsers
- Extremely flexible development with connectors
- Full integration with SharePoint list forms
- Security controlled via DLP

Microsoft Flow

Microsoft Flow

- Successor to SharePoint Designer (and Visual Studio) Workflow
- Low-code Workflow builder for PowerUsers
- Extremely flexible development with connectors
- Event driven architecture
- Security controlled via DLP

Customizing Forms with PowerApps

Customizations All PowerApps Should Have

- Configure New, Edit and View Forms
- Change the page orientation (where applicable)
- Reset fields on load in a New Form
- Use “Primary Controls” for standard field sizes

Cascading Drop-Downs…You Can Do That Now

- Surprisingly easy.

Add a connection to your source list

Build a Collection in the OnVisible event

Add some code to Items property of child field

Launching Flows from PowerApps

- Prior to PowerApps, launching any workflows usually required heavy customization.
  - Could be launched via Custom Actions or custom code
- PowerApps now makes launching a Flow when you want really simple.

Add a Flow to your PowerApp

Add a button to your PowerApp Canvas

Add some configuration and a little code (optional)

Automating Your Processes with Microsoft Flow

Getting Things Started - Triggers

- A trigger is the starting action of a flow. Kicks everything off.
- Triggers are source specific
- Organized by source type
- Multiple methods available:
  - Based on source
  - Endpoint initiation
  - Manually started via a SharePoint list
  - Start from a PowerApp

Getting Things Done in Flow

- Actions accomplish work
  - Like triggers, are usually based on another system
  - If you are missing a pre-configured action, can utilize REST or other Web Service endpoints.
- Easy to use conditionals
  - If\else conditionals allow for easy branching within the flow
  - Switch Statements when multiple options need to be covered
- Crunch Data
  - Can loop through data returned to massage or act upon

Business Solutions

A lot of connectors aren't even Microsoft applications

What's so Great About Connectors

Allow to easily extend your solution

Pre-Configured Access to your Data

Enhance integrations between systems

So what are some of the connectors?

Building a PowerApp and Flow Solution

Thank You!!

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- Email: **david.drever@solvera.ca**
- Blog: **http://prairiedeveloper.com**