# P08: Auto-Populating Forms with Power Automate

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## Context

Item	Detail
Tag	Vertical Patterns   Power Apps
Contributors	Vincent Kimiti   Habab Siddig
Version Control	V1.0
Application Use Case	Auto-populate an "Authorised Individuals" form with account data from Dataverse
Reference Usage	Automating form population using Dataverse and string manipulation in Power Automate

# Story Behind The Pattern

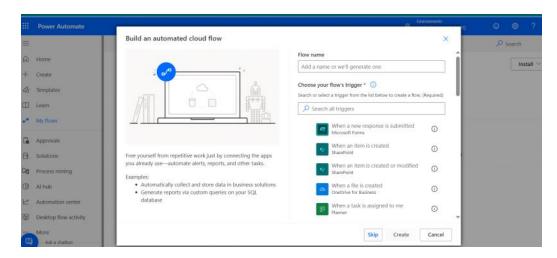
Item	Detail
The Problem	Manually updating the "Authorised Individuals" form with related account data is inefficient and error-prone.
The Solution	Create a Power Automate flow to retrieve row data, initialize a variable, list related accounts, and update the form with processed information.
Dependencies	Power Automate environment, Dataverse with "Authorised Individuals" and "Accounts" tables, permissions to create flows and access tables.

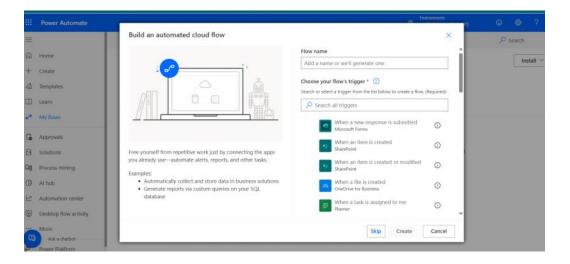
## The Pattern

# Method 1: Setting Up Authorised Individual Form Auto-Population Flow

Here's a step-by-step guide to create a Power Automate flow that auto-populates an "Authorised Individuals" form by processing account data from Dataverse:

- 1. Create a New Flow in Power Automate
  - o Log in to the Power Automate portal (make.powerautomate.com).
  - o Click Create and select Automated cloud flow.
  - o Name the flow (e.g., "Authorised Individual Form Auto Populate") and click Create.
  - Choose the trigger When a row is added, modified or deleted from the Dataverse connector.





## 2. Configure the Trigger

- o In the trigger settings, set the following:
  - Change type: Select "Added, Modified" (to trigger on new or updated rows; exclude "Deleted" if not needed).
  - Table name: Select "Authorised Individuals" from the dropdown.
  - Scope: Choose "Organization" to apply the trigger across the organization.
  - Select columns: Leave blank or enter specific columns (e.g., "AuthorisedInd\_Id") to optimize performance.
  - Filter rows: Optionally, add an OData expression (e.g., statuscode eq 1) to limit triggers to active records.
- Click Save to proceed.



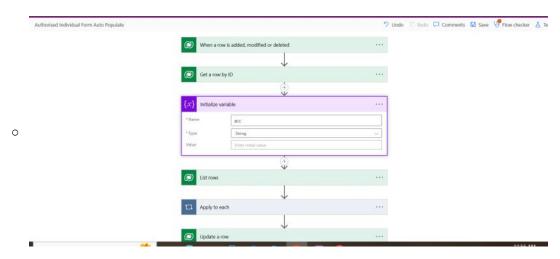
#### 3. Add a Get a Row by ID Action

- Click + New step below the trigger.
- o Search for and select Get a row by ID (Dataverse connector).
- Configure the action:
  - Table name: Select "Authorised Individuals."
  - Row ID: Select the "Row ID" dynamic content from the trigger output.
  - Select columns: Leave blank or specify columns (e.g., "AuthorisedInd\_Id") to retrieve specific data.
- This step retrieves the detailed data of the changed row.



#### 4. Initialize a Variable

- Click + New step.
- o Search for and select Initialize variable (Variables connector).
- Configure the variable:
  - Name: Enter "acc" (or a meaningful name like "accountList").
  - Type: Select "String."
  - Value: Leave blank or enter an initial value (e.g., an empty string).
- This step sets up a string variable to store concatenated account data.



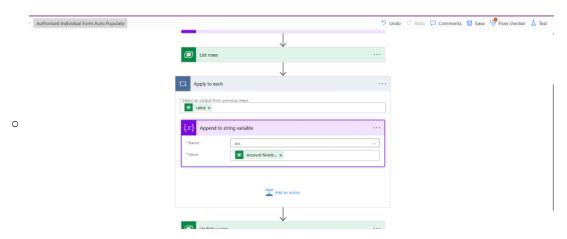
# 5. Add a List Rows Action

- Click + New step.
- Search for and select List rows (Dataverse connector).
- Configure the action:
  - Table name: Select "Accounts."
  - Select columns: Leave blank or enter specific columns (e.g., "Account Number," "Firm Name").
  - Filter rows: Enter an OData filter (e.g., FirmName eq 'Firm X') to limit rows based on the "Authorised Individuals" data (e.g., match Firm Name).
  - Sort by: Leave blank or specify a column (e.g., "Created On" descending).
  - Fetch XML Query: Optionally, use a custom FetchXML query (e.g., <fetch><entity name="account"><attribute name="accountnumber"/></filter><condition attribute="name" operator="eq" value="Firm X"/></filter></fetch>).
  - Row count: Leave as default (5000) or adjust as needed.
- o This step retrieves a list of accounts matching the criteria.



#### 6. Apply to Each Loop

- The "List rows" output will automatically create an Apply to each loop.
- In the Select an output from previous steps field, choose the "value" output from the "List rows" action.
- o This step iterates over each account row retrieved.



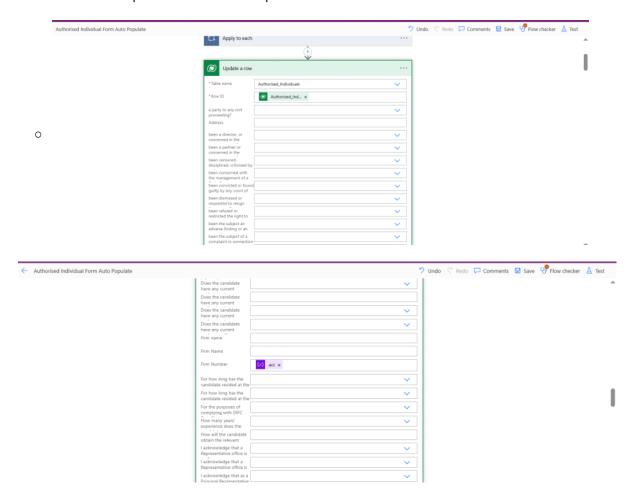
#### 7. Append to String Variable

- o Inside the Apply to each loop, click Add an action.
- Search for and select Append to string variable (Variables connector).
- Configure the action:
  - Name: Select "acc" (the variable initialized earlier).
  - Value: Select "Account Number" (or another field) from the "List rows" output and append it (e.g., concat(variables('acc'), item()?['accountnumber'], ', ') to add a commaseparated list).
- This step builds a string of account numbers from the retrieved rows.

#### 8. Update a Row

- Inside the Apply to each loop, click Add an action.
- o Search for and select Update a row (Dataverse connector).
- Configure the action:
  - Table name: Select "Authorised Individuals."
  - Row ID: Select the "AuthorisedInd\_Id" from the "Get a row by ID" output.
  - Address a party to any civil proceeding?: Leave blank or map a field if applicable.
  - Address been a director, or been concerned in the management of a company?: Leave blank or map a field.
  - Address been a partner or been concerned in the management of a partnership?: Leave blank or map a field.
  - Address been censured, disciplined, criticised?: Leave blank or map a field.
  - Address been convicted of any offence?: Leave blank or map a field.
  - Address been guilty by any court of misconduct?: Leave blank or map a field.
  - Address been dismissed or requested to resign?: Leave blank or map a field.

- Address been refused or restricted in right to be a director?: Leave blank or map a field.
- Address been refused or restricted in right to practice or been the subject of an adverse finding or an adverse ruling?: Leave blank or map a field.
- Address been the subject of a complaint in connection?: Leave blank or map a field
- Firm Name: Set to the concatenated "acc" variable (e.g., variables('acc')) to populate with account numbers.
- Firm Number: Leave blank or map a field if applicable.
- Click Save to update the row with the processed account data.



### 9. Test and Validate the Flow

- o Click Test in the flow editor and select Manually.
- Add, modify, or delete a row in the "Authorised Individuals" table and check if the flow triggers.
- Verify that the "Firm Name" field is updated with the concatenated account numbers from the "Accounts" table.
- Ensure no errors occur during execution.

#### 10. Activate and Monitor the Flow

- o Once tested, click Save and then Turn on to activate the flow.
- $\circ$   $\,$  Monitor the flow runs in the Run history to ensure it executes without errors.
- o Adjust the flow (e.g., refine the filter or variable logic) if issues arise.