

ECAS INSPECTION APP

Vishwa Swami

Front End
=> PowerApps

Power-App => HOME SCREEN

ECAS

ECAS

View/Add
Inspections

Add Image to an
Inspection

Generate Image
Report

OnSelect

= fx



Navigate('Inspection List Screen')

OnSelect

= fx



Navigate('Load Image Screen')

OnSelect

= fx



Navigate('Generate Report Screen',ScreenTransition.None)

Power-App => GENERATE REPORT SCREEN

ECAS

< Report Generation

Choose Project

ECAS Office_Test

Enter File Name

Enter File Name

Enter email to send Report

Enter your Email

Generate Report

Items

= fx



'Image Library'

wordFileName

emailID

OnSelect

= fx



AddSharePointListToWordDocument.Run(folderName_1.Selected.Name,wordFileName.Text,emailID.Text);

folderName_1

Display Advanced

Items

Image Library


Value

Title


Power-App => LOAD IMAGE SCREEN


ECAS

Add Image


OnSelect = fx  Navigate(ImageGallery,ScreenTransition.Cover)

Camera2

Camera = fx  Toggle1.Value


StreamRate = fx  100

Icon2

OnSelect = fx 

```
//Set(varTakenPhoto, Camera2.Stream);  
ClearCollect(photos,Camera2.Stream);  
Set(varPhotoName, "ECAS_" & Text(Now(), "[$-en-US]yyyy-mm-dd_hh-mm-ss") & ".png");  
Navigate('Save Image_with Details',ScreenTransition.Fade);  
//Navigate('Save Image',ScreenTransition.Fade);
```

Toggle1

OnChange = fx  Camera2.AvailableDevices

Power-App => SAVE IMAGE WITH DETAILS

ECAS

< Save Image

Location within Structure

#03-04

Structural Condition

Rebar is rusted

Element ID

Beam-1

Remarks

Description if issue

Delete

Save

Image2_1

Image

= fx

First(photos).Value

Label1_1

Text

= fx

varPhotoName

TextInput_Floor_Number

TextInput_Structure_Condition

TextInput_ElementID

TextInput_Remarks

OnSelect

= fx

Clear(photos);
Navigate('Load Image Screen',ScreenTransition.UnCoverRight);

OnSelect

= fx

Tree view

Screens Components

Search

New screen

IconBackarrow1_5

LblAppName1_4

RectQuickActionBar1_4

Load Image Screen

Collect(

AllPhotos,

{

Title: varPhotoName,

DataSteam:First(photos).Value,

Floor: TextInput_Floor_Number.Text,

StructureCondition: TextInput_Structure_Condition.Text,

ElementID: TextInput_ElementID.Text,

Remarks: TextInput_Remarks.Text

}

);


Navigate('Load Image Screen',ScreenTransition.UnCoverRight);

Power-App => IMAGE GALLERY

ECAS

< Image Gallery

ECAS Office_Test


 >

Save To Share Point

Clear Gallery


Items

= fx

 'Image Library'


Items

= fx

 AllPhotos


OnSelect

= fx

 Savefilestofolder.Run(JSON(AllPhotos,JSONFormat.IncludeBinaryData),folderName.Selected.Name);

OnSelect

= fx

 Clear(AllPhotos)

Items

Image Library

Value

Title

Gallery2

Display

Advanced

Data source

AllPhotos

Power-App => INSPECTION LIST SCREEN

ECAS

< Inspection List ↻ ⬆ ⬆ +

🔍 Search items

Test
Ej Chan
ECAS Office >

🏠

↻ OnSelect = fx Refresh([@'Inspection Report'])

⬆ OnSelect = fx UpdateContext({SortDescending1: !SortDescending1})

+ OnSelect = fx NewForm(EditForm1);Navigate('Add Inspection Screen', ScreenTransition.None)

SortByColumns(Filter([@'Inspection Report'], StartsWith(Title, TextSearchBox1.Text)), "Title", If(SortDescending1, SortOrder.Descending, SortOrder.Ascending))

Data

Body1
Name of Structure

Subtitle1
PE Conducting Inspection

Display value
Value

Title1
Title

Properties

GALLERY ?

BrowseGallery1

Display Advanced

Data source Inspection Report

Fields 7 selected

Layout Title, subtitle, and body

Visible On

Power-App => INSPECTION LIST DETAILS

ECAS

< Inspection Details

Title

Test

Engineers

Vishwa

PE Conducting Inspection

Ej Chan

Name of Structure

ECAS Office

Project Reference Number

SM 2024/01/24

Date of Report Generation

5/23/2024

Home

Remove([@'Inspection Report'], BrowseGallery1.Selected); If (IsEmpty(Errors([@'Inspection Report'], BrowseGallery1.Selected)), Back())

OnSelect = fx EditForm(EditForm1);Navigate('Add Inspection Screen', ScreenTransition.None)

OnSelect = fx Navigate('Home Screen',ScreenTransition.Fade)

Editing

Fields

+ Add field

Title

Engineers

PE Conducting Inspection

Name of Structure

Project Reference Number

Date of Report Generation

Properties

DISPLAY ?

DetailForm1

Display Advanced

Data source Inspection Report

Fields 6 selected

Snap to columns On

Columns 1

Layout Vertical

Power-App => ADD INSPECTION SCREEN

ECAS

✕ Add Inspection

🏠 ✓

* Title

Test

* Engineers

Vishwa

* PE Conducting Inspection

EJ Chan

* Name of Structure

ECAS Office

* Project Reference Number

SM 2024/01/24

* Date of Report Generation

5/23/2024

Attachments

There is nothing attached.

📎 Attach file

```
// Submit the form to create an item in the "Inspection Report" list
SubmitForm(EditForm1);

// Check if the form submission was successful
If(
    EditForm1.Error = Blank(), // No error occurred during form submission
    // If form submission was successful, create a folder in the image library
    ClearCollect(
        CreatedFolder,
        TestCreateFolder.Run(Concatenate(StructureName, "_", InspectionTitle))
    );






    // Check if folder creation was successful
    If(
        !IsBlank(CreatedFolder),
        // If folder was created successfully, update the "Folder Name" column of the newly created item in the "Inspection Report" list
        Patch(
            'Inspection Report',
            EditForm1.LastSubmit, // Use the ID of the newly created item
            {
                'Folder Name': Concatenate(StructureName, "_", InspectionTitle)
            }
        ),
        // If folder creation failed, handle error appropriately
        Notify("Failed to create folder", NotificationType.Error)
    ),
    // If form submission failed, handle error appropriately
    Notify("Failed to submit form", NotificationType.Error)
);
```

API's => Power
Automate

Power-Automate => 3 flows are used in Power app


ECAS

Cloud flows Desktop flows Shared with me

	Name	Modified	Type
	Save files to folder	1 wk ago	Instant
	Backup - TestCreateFolder	2 wk ago	Instant
	Backup - Save files to folder	2 wk ago	Instant
	Backup - AddSharePointListToWordDocument	2 wk ago	Instant
	TestCreateFolder	3 wk ago	Instant

BACKUP

Cloud flows Desktop flows Shared with me

	Name
	AddSharePointListToWordDocument

Environments
ECAS-EJ CONSULTANTS...

Select environment

Environments are grouped by type—choose Build flows to create flows, or Other environments to view flows and approvals.
[Learn more](#)

Search Filter

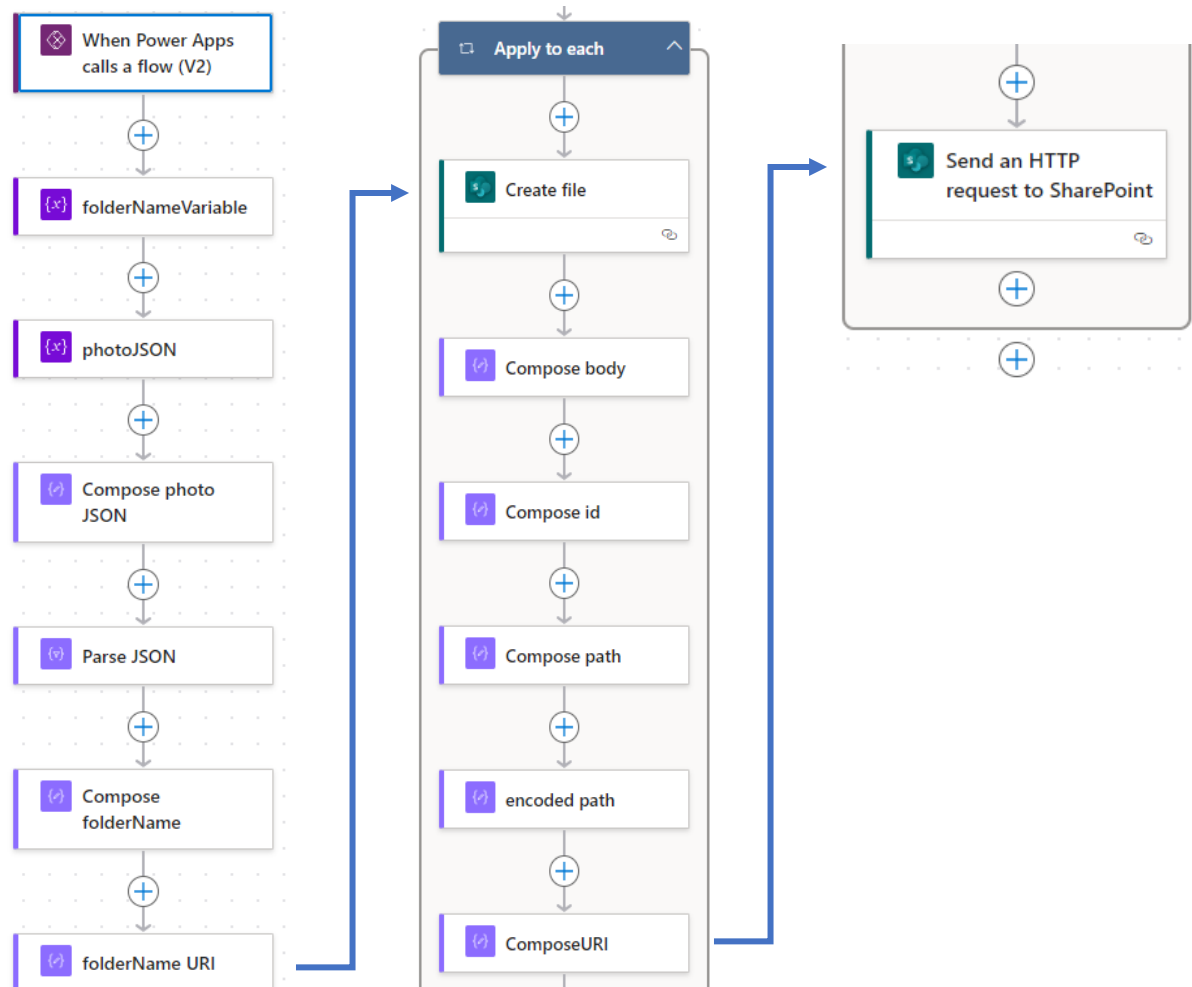
Build flows (1)

ECAS-EJ CONSULTANTS PTE LTD (default)

Other environments (0)

Power-Automate => Flow1: Save files to folder

ECAS



Connections in use

Connections listed are actively being used in this flow. [Manage connections](#)



SWAMI_VISHWA@ecas.com.sg
SharePoint



Other connections

Connections listed are not being used by this flow. Co-owners are able to use these connections for new or existing operations in this flow.

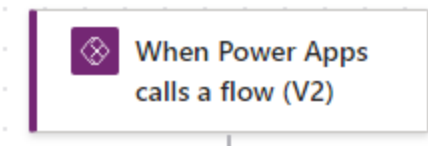


SWAMI_VISHWA@ecas.com.sg
Office 365 Outlook



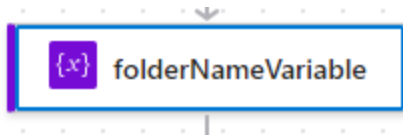
Power-Automate => Flow1: Save files to folder

ECAS



AskInPowerA... Please enter your input

AskFolderNa... Please enter your input



Parameters Settings Code View About

Name *

folderNameInImageLibrary

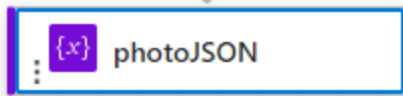
Type *

String

Value

AskFolderName ×

```
"name": "folderNameInImageLibrary",  
"type": "string",  
"value": "@triggerBody()['text_1']"
```



Parameters Settings Code View

Name *

photoJSON

Type *

String

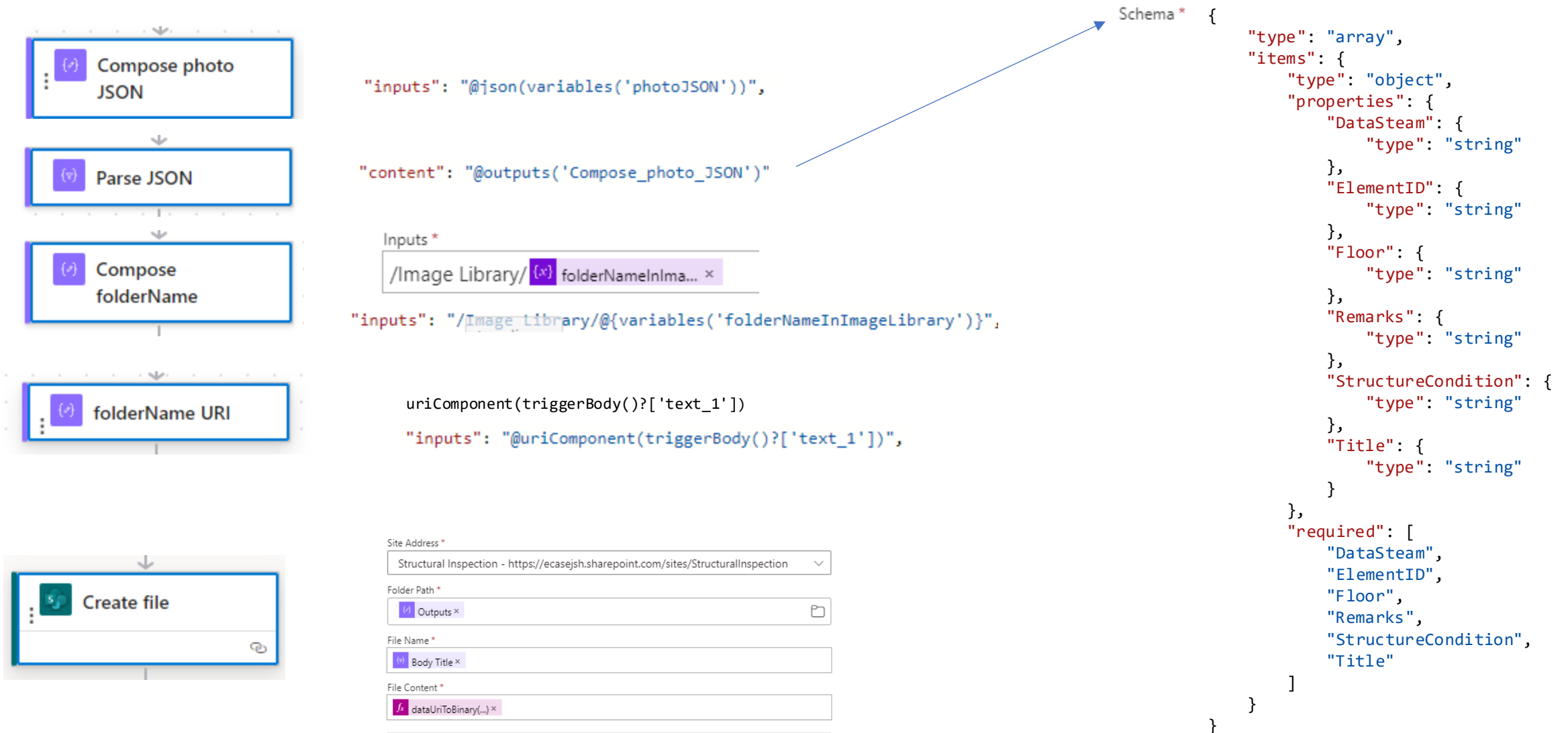
Value

AskInPowerApps1 ×

```
{  
  "name": "photoJSON",  
  "type": "string",  
  "value": "@triggerBody()['text']"  
}
```

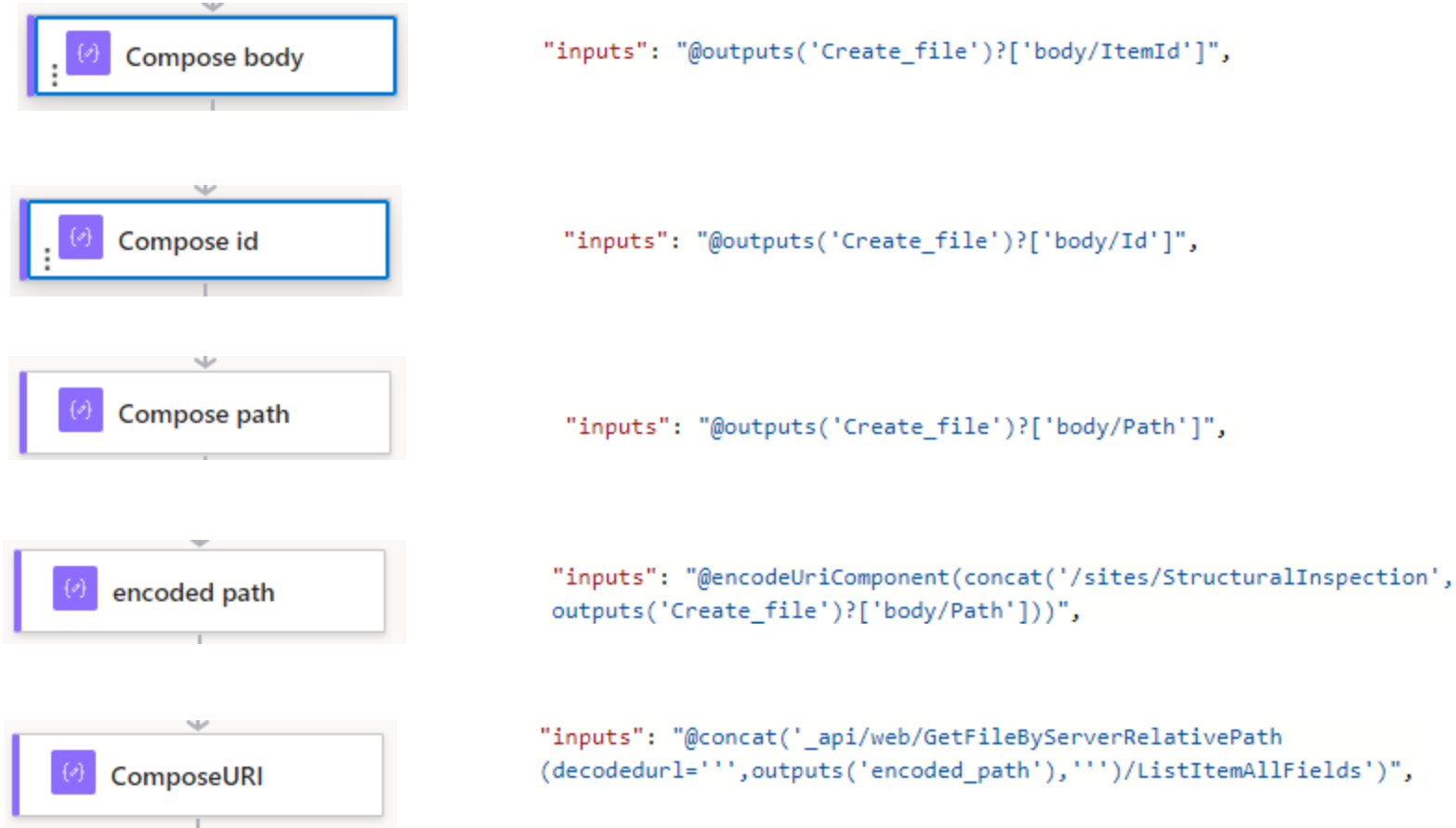
Power-Automate => Flow1: Save files to folder

ECAS



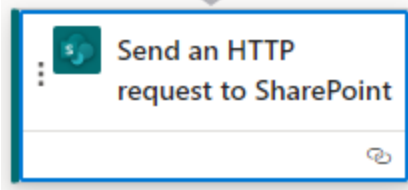
Power-Automate => Flow1: Save files to folder

ECAS



Power-Automate => Flow1: Save files to folder

ECAS



Site Address *

Structural Inspection - https://ecasejsh.sharepoint.com/sites/StructuralInspection

Method *

POST

Uri *

Outputs ×

Advanced parameters

Showing 2 of 2

Show all

Clear all

Headers

Accept	application/json;odata=verbose	×	⊞	×
Content-Type	application/json;odata=verbose	×		
X-HTTP-Method	MERGE	×		
If-Match	*			

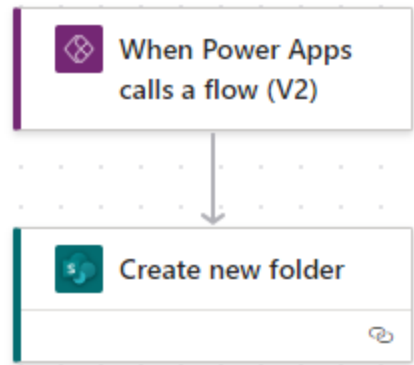
Body

```
{
  "__metadata": { "type": "SP.Data.Image_x0020_LibraryItem" },
  "Floor_Number": "@Body Floor ×",
  "Element_ID": "@Body ElementID ×",
  "Structural_Condition": "@Body StructureCo... ×",
  "Remarks": "@Body Remarks ×"
}
```

```
"parameters": {
  "dataset": "https://ecasejsh.sharepoint.com/sites/StructuralInspection",
  "parameters/method": "POST",
  "parameters/uri": "@outputs('ComposeURI')",
  "parameters/headers": {
    "Accept": "application/json;odata=verbose",
    "Content-Type": "application/json;odata=verbose",
    "X-HTTP-Method": "MERGE",
    "If-Match": "*"
  },
  "parameters/body": "{\n  \"__metadata\": { \"type\": \"SP.Data.Image_x0020_LibraryItem\" },\n  \"Floor_Number\": \"@{items('Apply_to_each')['Floor']}\", \n  \"Element_ID\": \"@{items('Apply_to_each')['ElementID']}\", \n  \"Structural_Condition\": \"@{items('Apply_to_each')['StructureCondition']}\", \n  \"Remarks\": \"@{items('Apply_to_each')['Remarks']}\" \n}"
}
```

Power-Automate => Flow2: TestCreateFolder

ECAS



Connections in use

Connections listed are actively being used in this flow. [Manage connections](#)



SWAMI_VISHWA@ecas.com.sg
✓ SharePoint



Other connections

Connections listed are not being used by this flow. Co-owners are able to use these connections for new or existing operations in this flow.



SWAMI_VISHWA@ecas.com.sg
Office 365 Outlook



SWAMI_VISHWA@ecas.com.sg
Excel Online (Business)



Power-Automate => Flow2: TestCreateFolder

ECAS



When Power Apps
calls a flow (V2)



FolderName

Please enter your input



Create new folder

Site Address *

Structural Inspection - <https://ecasejsh.sharepoint.com/sites/StructuralInspection>



List Or Library *

Image Library

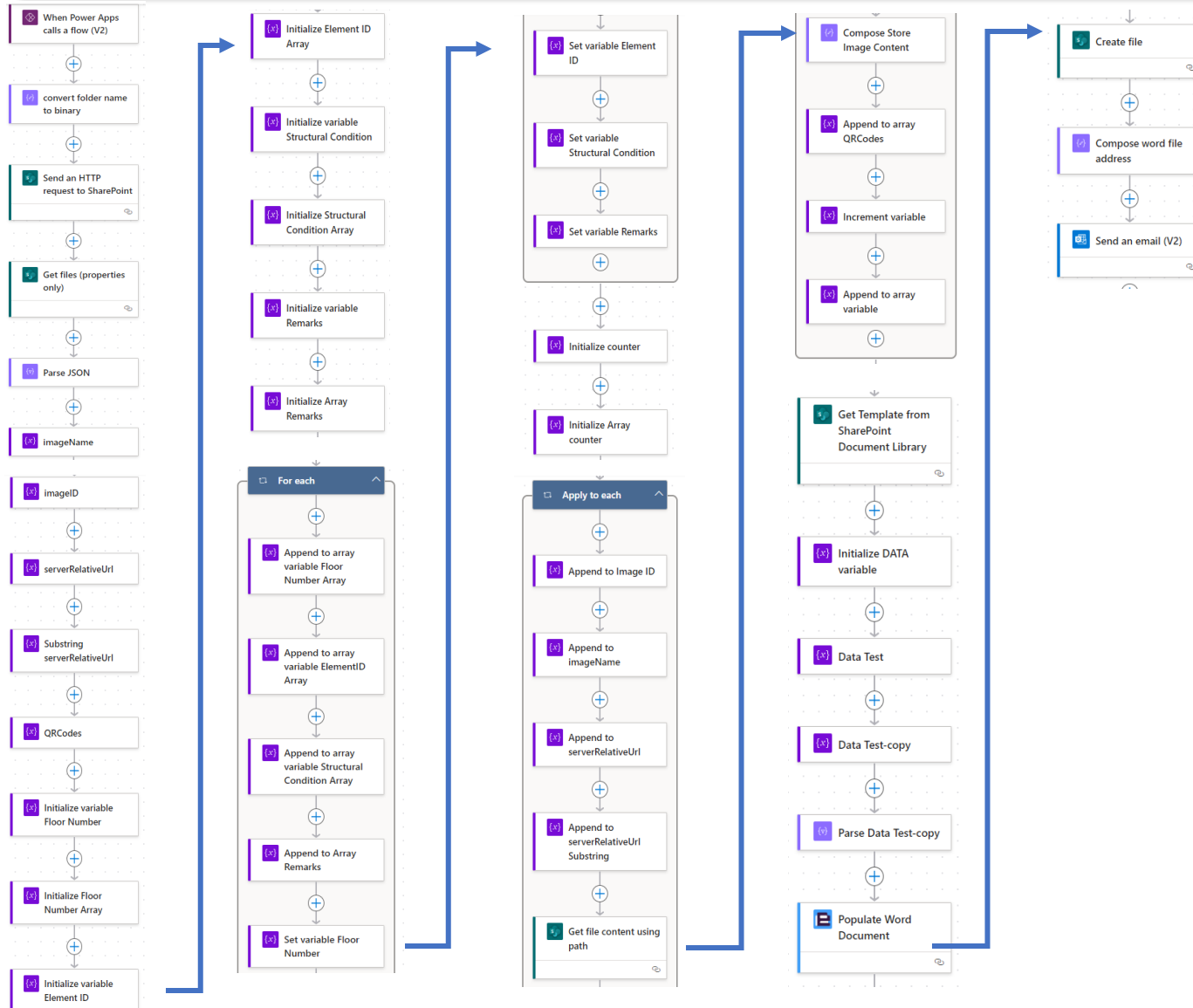


Folder Path *



FolderName ×

Flow3: AddSharePointListToWordDocument



Connections in use

Connections listed are actively being used in this flow. [Manage connections](#)

	SWAMI_VISHWA@ecas.com.sg SharePoint	×
	SWAMI_VISHWA@ecas.com.sg Office 365 Outlook	×
	ECAS Encodian	×

Other connections

Connections listed are not being used by this flow. Co-owners are able to use these connections for new or existing operations in this flow.

	it@ecas.com.sg SharePoint	×
	SWAMI_VISHWA@ecas.com.sg Word Online (Business)	×

Flow3: AddSharePointListToWordDocument

When Power Apps calls a flow (V2)

convert folder name to binary

Send an HTTP request to SharePoint

Get files (properties only)

folderName1	Please enter your input
fileName	Please enter your input
emailID	Please enter your input

```
"inputs": "@uriComponent(triggerBody()?['text'])",
```

Site Address *

Structural Inspection - https://ecasejsh.sharepoint.com/sites/StructuralInspection

Method *

GET

Uri *

_api/web/GetFolderByServerRelativeUrl('/sites/StructuralInspection/Image%20Library/
/Outputs')/Files

Parameters Settings Code View Testing About

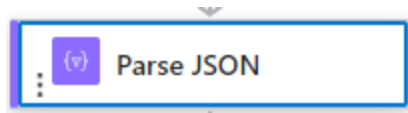
Site Address *

Structural Inspection - https://ecasejsh.sharepoint.com/sites/StructuralInspection

Library Name *

Image Library

Flow3: AddSharePointListToWordDocument



Content *

body/value x

Schema *

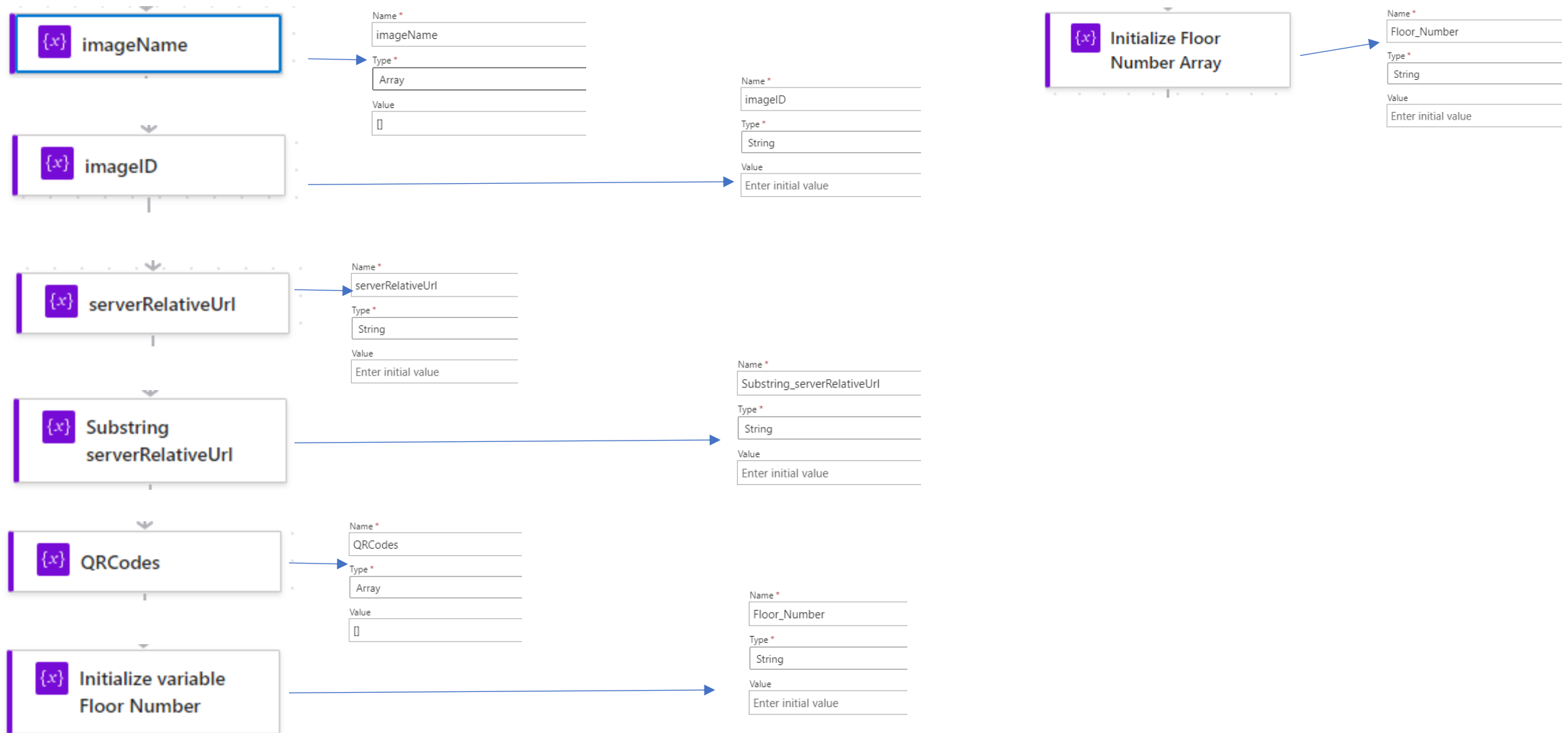
```
outputs('Get_files_(properties_only)')?['body/value']
```

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "@odata.etag": {
        "type": "string"
      },
      "ItemInternalId": {
        "type": "string"
      },
      "ID": {
        "type": "integer"
      },
      "Title": {
        "type": "string"
      },
      "Modified": {
        "type": "string"
      },
      "Editor": {
        "type": "object",
        "properties": {
          "@odata.type": {
            "type": "string"
          },
          "Claims": {
            "type": "string"
          },
          "DisplayName": {
```

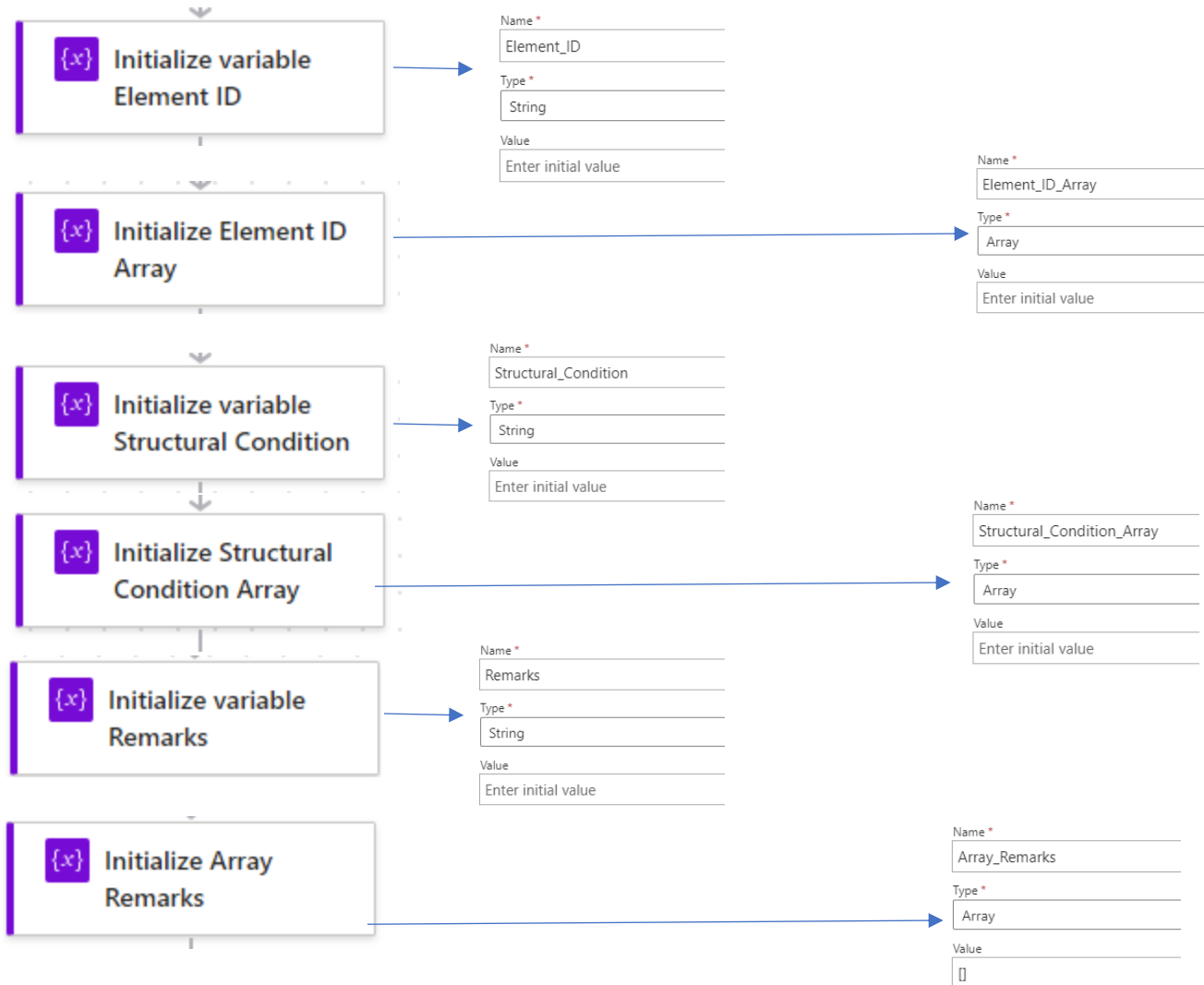
Power-Automate =>

ECAS

Flow3: AddSharePointListToWordDocument



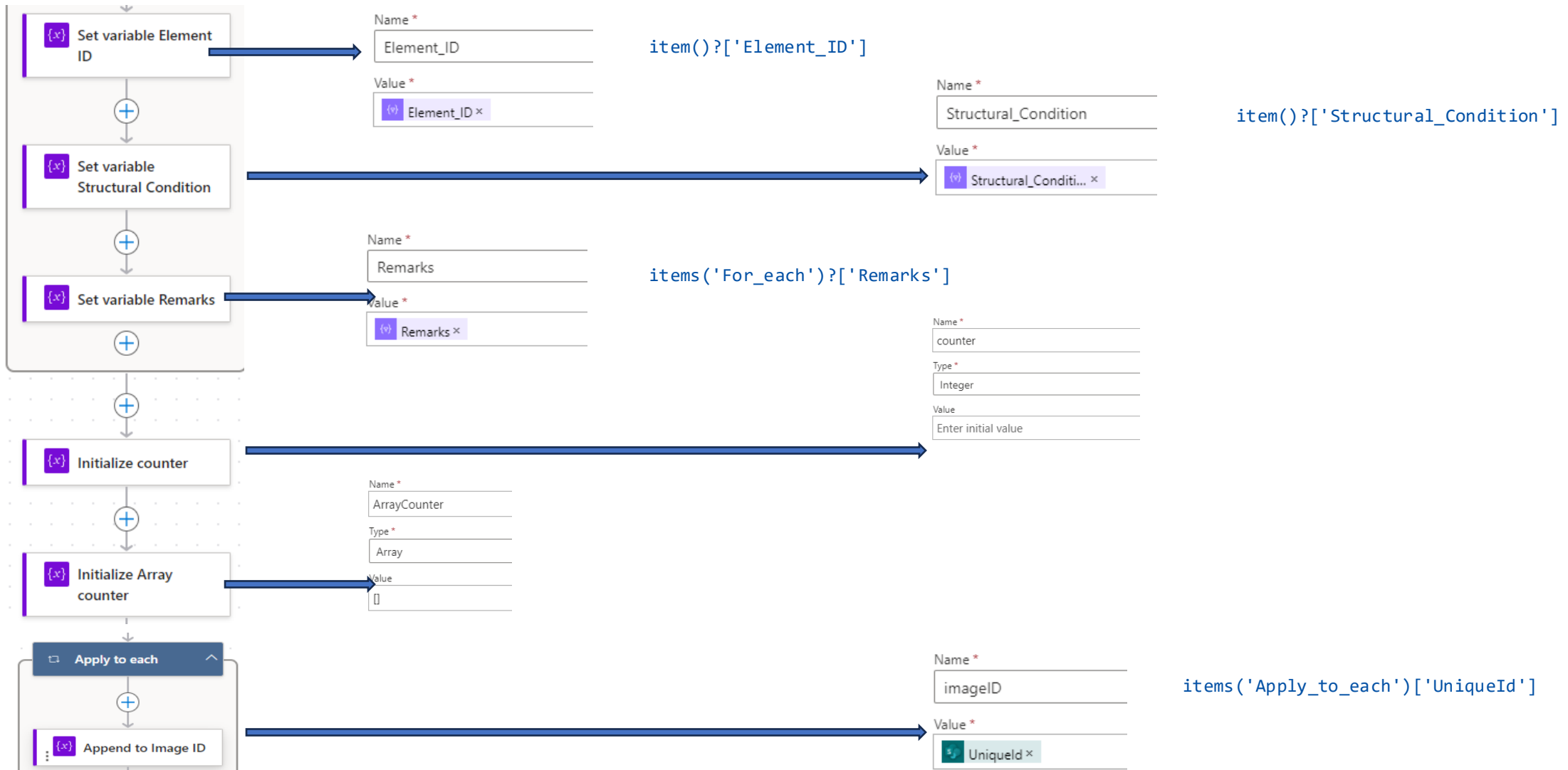
Flow3: AddSharePointListToWordDocument



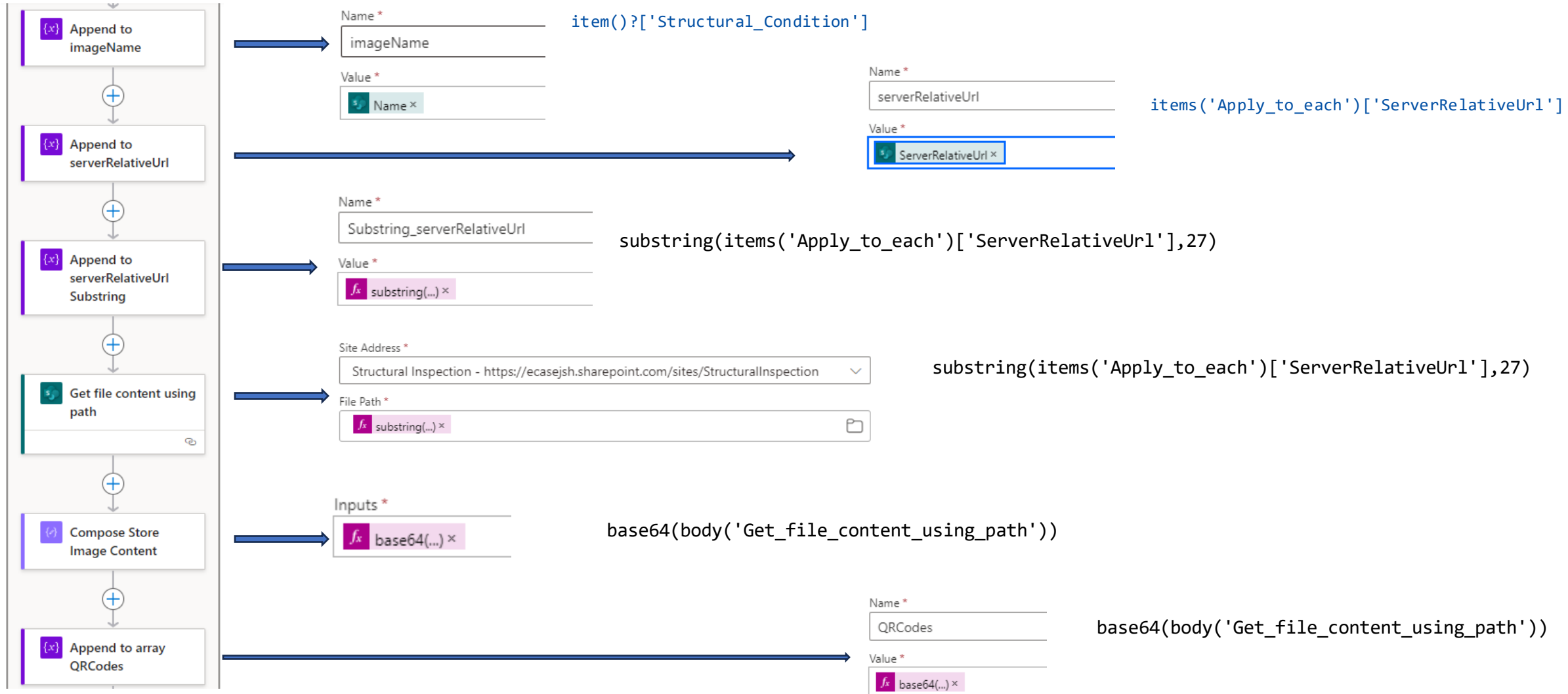
Flow3: AddSharePointListToWordDocument



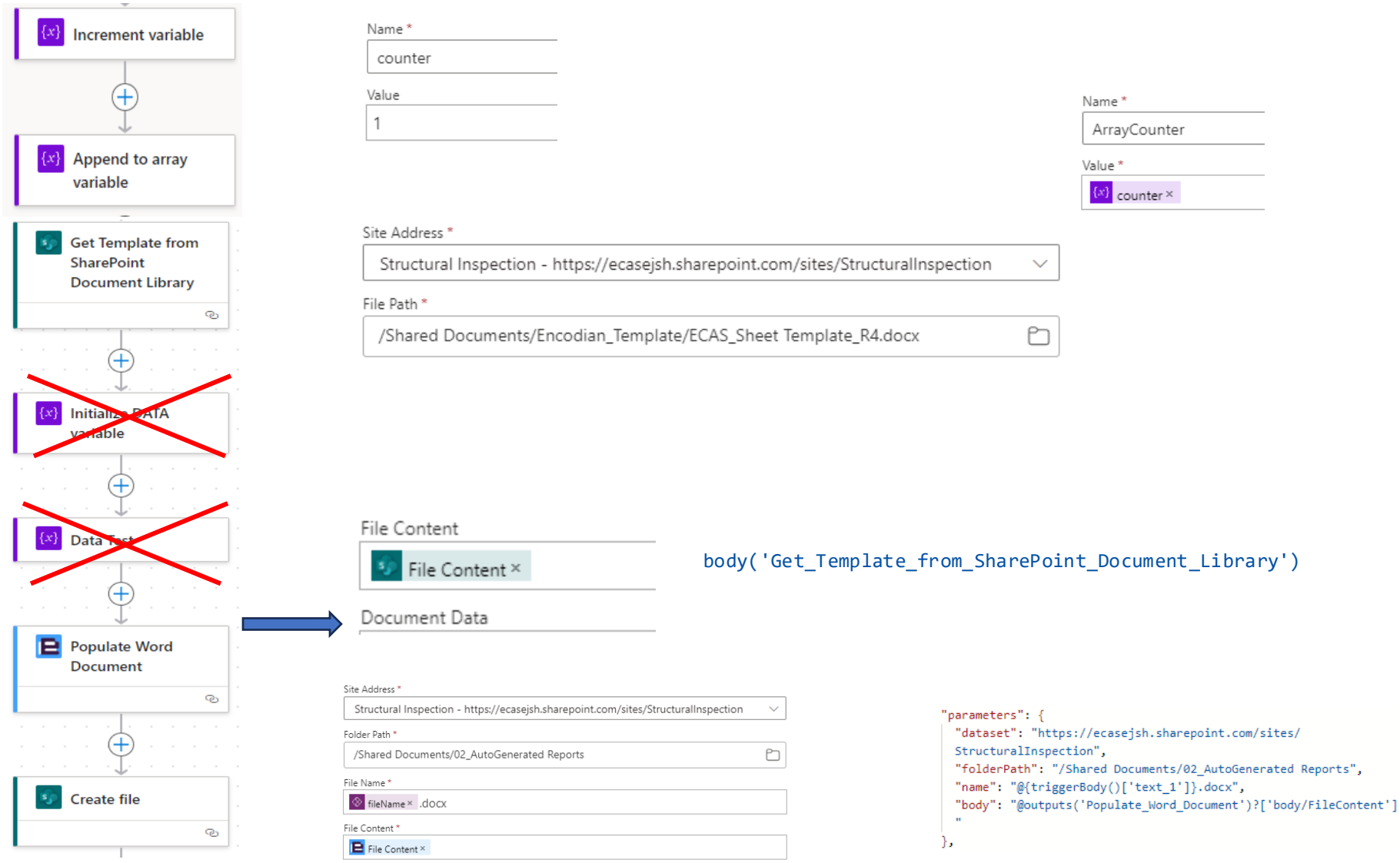
Flow3: AddSharePointListToWordDocument



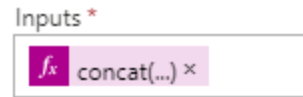
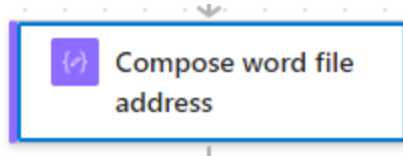
Flow3: AddSharePointListToWordDocument



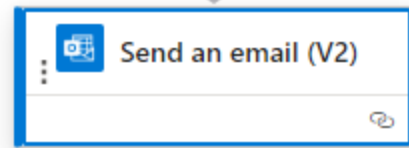
Flow3: AddSharePointListToWordDocument



Flow3: AddSharePointListToWordDocument



```
concat('https://ecasejsh.sharepoint.com/sites/StructuralInspection', outputs('Create_file')?['body/Path'])
```



To *

emailID x

Subject *

New Report Generated

Body *

Normal Arial 15px B I U A

Hello substrin(...),

We hope this message finds you well.

We are pleased to inform you that body/Name x has been auto-generated by our system and is now available for your review. The images captured through our app have been successfully saved in SharePoint folder and compiled into this report.

Please find the report [HERE](#) for your reference.

Kind Regards,
ECAS Consultants Pte Ltd

1. `substring(triggerBody()?['text_2'],0,indexOf(triggerBody()?['text_2'],'@'))`
2. `2) <u>HERE</u> `

Data Base - SharePoint

SharePoint=> Site: Structural Inspection

ECAS

SI

Structural Inspection

Private group

★ Following

4 members

Published 1/24/2024

Share

Edit

Home

Conversations

Documents

Notebook

Pages

Site contents

Inspection Report

Image Library

PE List

Engineer List

Recycle bin

Edit

+ New

Page details

Analytics

Inspection Report

See all

+ New

Edit in grid view

Share

Export to Excel

All Items

Title	Engineers	PE Conducting ...	Name of Struct...	Proje
○ Test	...	Vishwa	EJ Chan	ECAS Office

Documents

See all

+ New

...

All Documents

Name
02_AutoGenerated Reports
Encodian_Template

News

+ Add

Add real-time chat

Add Microsoft Teams to collaborate in real-time and share resources across Microsoft 365 with your team.

Add Microsoft Teams

Keep your team updated with news on your team site

From the site home page you'll be...

SharePoint a few seconds ago

[SharePoint Site: Structural Inspection](#)

SharePoint => Inspection Report - LIST

ECAS

SI

Structural Inspection

Home

Conversations

Documents

Shared with us

Notebook

Pages

Site contents

Inspection Report

Image Library

PE List

Engineer List

Recycle bin

Edit

+ Add new item

Edit in grid view

Undo

Share

Export

Forms

New

Automate

Integrate

...

PE List

☆

🕒

Title

PE Name

+ Add column

EJ Chan	EJ Chan
Titus Tay	Titus Tay
Dr Shen	Dr Shen
Sharron	Sharron

SharePoint => PE List - LIST

ECAS

SI

Structural Inspection

Home

Conversations

Documents

Shared with us

Notebook

Pages

Site contents

Inspection Report

Image Library

PE List

Engineer List

Recycle bin

Edit

+ Add new item

Edit in grid view

Undo

Share

Export

Forms

New

Automate

Integrate

...

PE List

☆

🕒

Title

PE Name

+ Add column

EJ Chan	EJ Chan
Titus Tay	Titus Tay
Dr Shen	Dr Shen
Sharron	Sharron

SharePoint=> Engineer List - LIST

ECAS

SI

Structural Inspection

Home

Conversations

Documents

Shared with us

Notebook

Pages

Site contents

Inspection Report

Image Library

PE List

Engineer List

Recycle bin

Edit

+ Add new item

Edit in grid view

Undo

Share

Export

Forms

New

Automate

Integrate

...

Engineer List

☆

🕒

Title	Engineer Name	+ Add column
Khor Thean Kok	Khor Thean Kok	
Anusha Cherukuri	Anusha Cherukuri	
Tan Boon Liang	Tan Boon Liang	

SharePoint=> Image Library - DOCUMENT LIBRARY

ECAS

The screenshot shows a SharePoint interface for a site named 'Structural Inspection'. The left sidebar contains navigation links: Home, Conversations, Documents, Shared with us, Notebook, Pages, Site contents, Inspection Report, **Image Library** (highlighted), PE List, Engineer List, Recycle bin, and Edit. The top right shows 'Private group', 'Following', and a user icon. Below the navigation bar is a ribbon with tabs: '+ New', 'Upload', 'Edit in grid view', 'Sync', 'Add shortcut to OneDrive', 'Pin to Quick access', 'Export to Excel', 'Automate', 'Integrate', and 'All Documents'. The main content area is titled 'Image Library' and contains a table with the following columns: Name, Modified, Modified By, Element_ID, Floor_Number, Structural_Con..., Remarks, and + Add column. A single row is visible with the folder name 'ECAS Office_Test', a modification date of 'May 22', and a modifier 'Sinnakkannu Jothy Kanna'.

Name	Modified	Modified By	Element_ID	Floor_Number	Structural_Con...	Remarks	+ Add column
ECAS Office_Test	May 22	Sinnakkannu Jothy Kanna					

Whenever an Item is created in Inspection Report List, a folder is created here. All the images captured from App will be saved in that folder.

SharePoint=> Document

ECAS

SI Structural Inspection Private group ★ Following 4 members

+ New Upload Edit in grid view Sync Add shortcut to OneDrive Pin to Quick access Export to Excel Automate Integrate All Documents

Documents

Name	Modified	Modified By	+ Add column
02_AutoGenerated Reports	January 23	SWAMI VISHWA	
Encodian_Template	June 25	SWAMI VISHWA	

- 1) All the Autogenerated report will be saved in **02_AutoGenerated Reports** folder.
- 2) Report template is saved in **Encodian_Template** folder

SharePoint=> Document

ECAS

encodian

Subscription Management

Overview

Encodian Flowr

Encodian Vertr

Encodian Trigr

Encodian Indxr

Utilities

Home

Support

Blog

Website

Vishwa Swami

Flowr

You have a valid Encodian Flowr subscription. [Click here to upgrade your subscription](#)

Vertr

You have a valid Encodian Vertr subscription. [Click here to upgrade your subscription](#)

Trigr

No subscription found for Encodian Trigr. [Click here to learn more about Encodian Trigr](#)

Indxr

No subscription found for Encodian Indxr. [Click here to learn more about Encodian Indxr](#)

Flowr

Vertr

Trigr

Indxr

REALTIME ACTIONS AVAILABILITY

Available Actions	35	Available Data (MB)	999999
* Your monthly actions allocation will renew on: 8/1/2024 (UTC Timezone)			

SUBSCRIPTION OVERVIEW

Subscription Level	Free	Expiration Date	2/24/2124
Actions per Month	50	Action Max File Size (MB)	200
Additional Actions *		Additional Actions Expiry	

ENCODIAN TENANT CONTACTS

Type	Name	Job Title	Number	Email	Address
Owner	Vishwa Swami		65336788	swami_vishwa@ecas.com.sg	
Billing					
Technical					

← encodianadmin.b2clogin.com

Username

swami_vishwa@ecas.com.sg

Password

Vishwa12345

Thank you