Flow Documentation - HTMLtoPDF_Dynamic

Description
HTMLtoPDF_Dynamic allows the conversion of HTML into PDF using multiple Encodian connectors dynamically.

Notes
HTML to PDF Dynamic flow uses free Encodian accounts. Usage of the flow is limited to 150 actions per month. For each Encodian free account, 50 actions are allocated per month. Currently, 3 free Encodian accounts are linked, for a total of 150 allocated actions per month. For each action/conversion one allocated action is deducted.
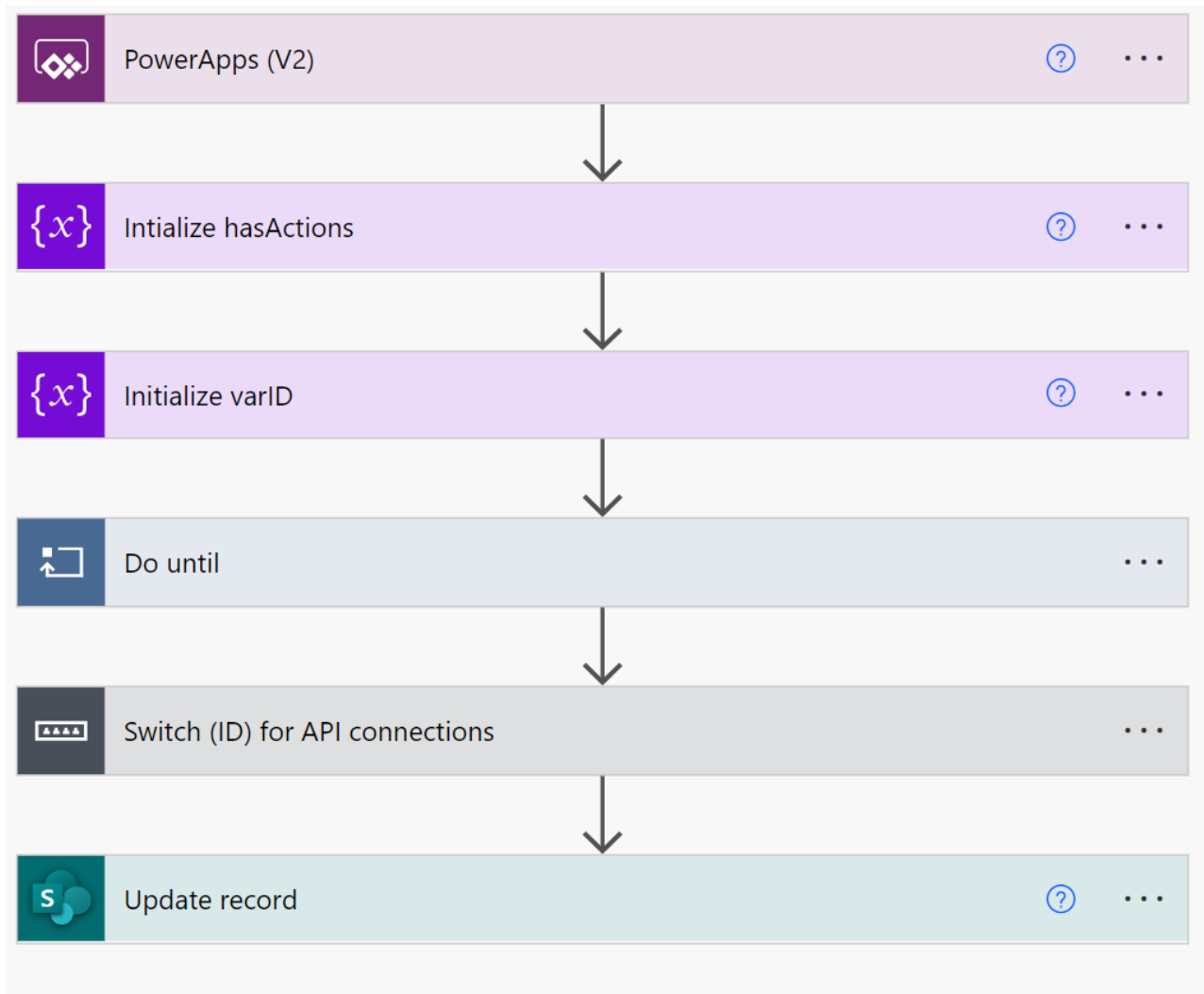
HTML to PDF Dynamic relies on the **Encodian Allocation Monitor** flow to update the sharepoint list containing information on the Encodian accounts and their available actions. The **Encodian Allocation Monitor** monitors the available actions allocated to the Encodian accounts and updates the list to match. This allows the HTMLtoPDF_Dynamic flow to check the list for Encodian accounts with available actions and dynamically switch accounts if one account has exhausted its available action.
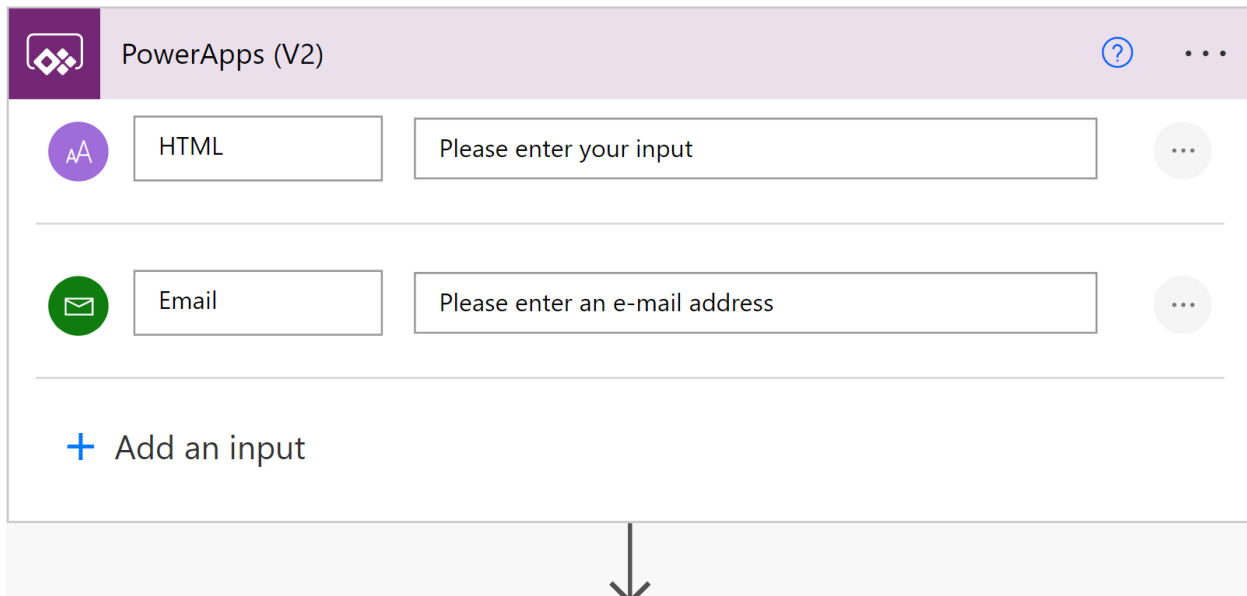
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Flow Overview

The following chart shows the top level layout of the Flow. For a detailed view, please visit the section called Detailed Flow Diagram.
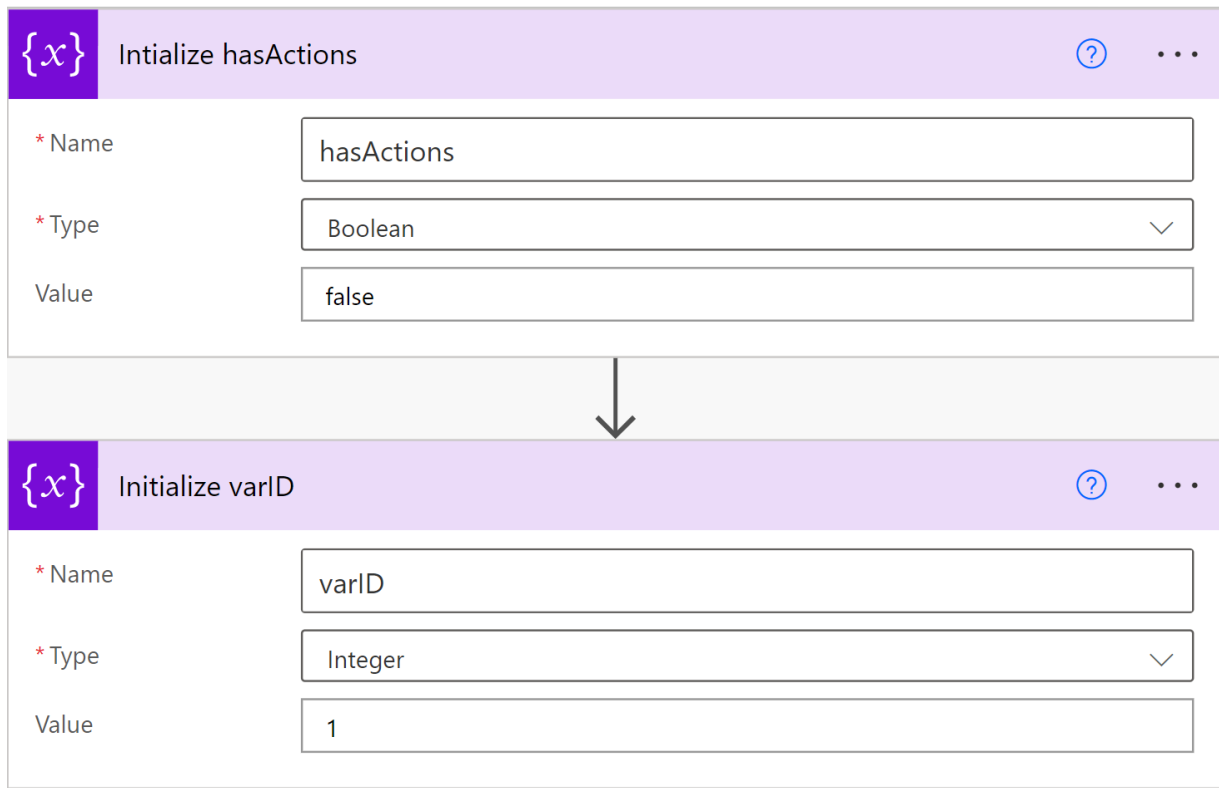
◇	PowerApps (V2)	?	⋯

↓

{x}	Intialize hasActions	?	⋯

↓

{x}	Initialize varID	?	⋯

↓

⬚	Do until	⋯

↓

▦	Switch (ID) for API connections	⋯

↓

S	Update record	?	⋯

Flow Breakdown

HTML to PDF Dynamic flow starts with a manual trigger requiring the HTML and the email of the user, the email will be used to deliver the pdf output to the email recipient.

Following the trigger, variables are initialized.

hasActions references the value of whether an Encodian account has available actions.

varID references the sharepoint list row containing information on the Encodian accounts. It is incremented by the **Do until** loop to check if the ID of the row containing the Encodian account has available actions. After the loop, it is referenced as the row ID containing the available Encodian account.
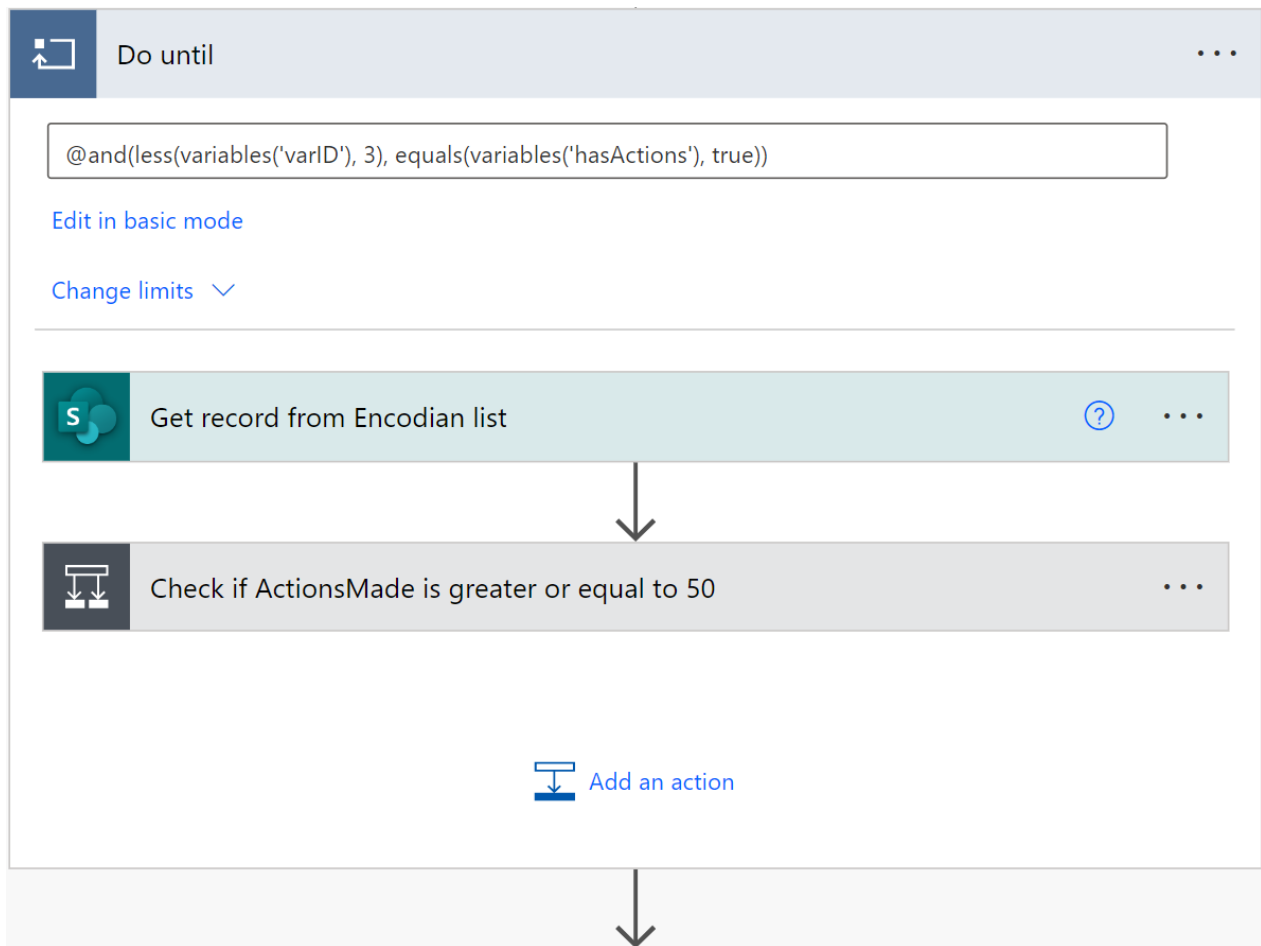
Do Until loop determines which Encodian account has available actions. The loop continues until an account with available actions is found or if all accounts are traversed.

Do Until Loop Breakdown

The loop starts with **Get record from Encodian list.** The list contains information of the available action of each Encodian account. Each row of the list contains one Encodian account. **varID** is incremented if the row containing the account has no available actions.

Encodian ☆

Email		ActionsMade	ResetDate	LastResetDate	ID
winzyl_olvido@questronix.com.ph		38	8/1/2022	7/1/2022	1
gaxah80818@dilanfa.com		0	8/1/2022	7/1/2022	2
jaraxo1607@iconzap.com		0	8/1/2022	7/1/2022	3

Encodian list

Check if ActionsMade is greater or equal to 50

| Actions... × | is greater than or... ∨ | 50 |

+ Add ∨

✓ If yes

{x} Increment varID   ⑦ ···

*Name   varID   ∨
Value   1

⟱ Add an action

✕ If no

{x} Set hasActions to true   ⑦ ···

*Name   hasActions   ∨
*Value   true

⟱ Add an action

The last step of the loop is to check if an Encodian account has available actions. The Encodian accounts are in a sharepoint list shown above. Each Encodian account is limited to 50 actions/conversion per month. Every first day of the month **Encodian Allocation Monitor** flow restarts the actions to 0. If an encodian account has a greater than or equal to 50 actions made, varID is incremented and the loop restarts to check the next Encodian account with the corresponding incremented ID.

If the account has less than 50 actions made, it is then determined that the row with the ID referenced by varID and its corresponding Encodian account has available actions. hasActions is set to true and the loop breaks and proceeds to the next step of the flow.
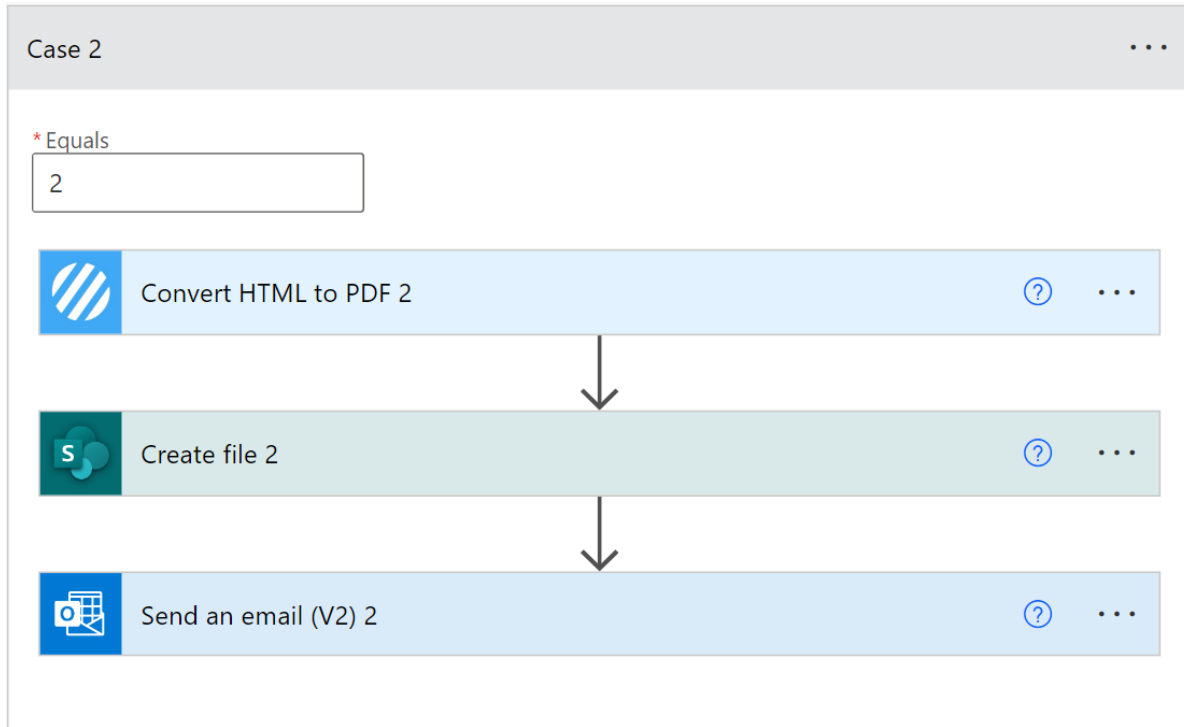
Switch (ID) for API connections   ···

*On   {x} varID ×

Each Encodian account is assigned an API key. After the account with an available action is determined and referenced in varID. The **Switch (ID) for API connections** will match the account to its corresponding Encodian API key connection. API keys cannot be switched in an action, therefore the Switch condition is used. The conversion will proceed with the Encodian API key set inside each switch case.
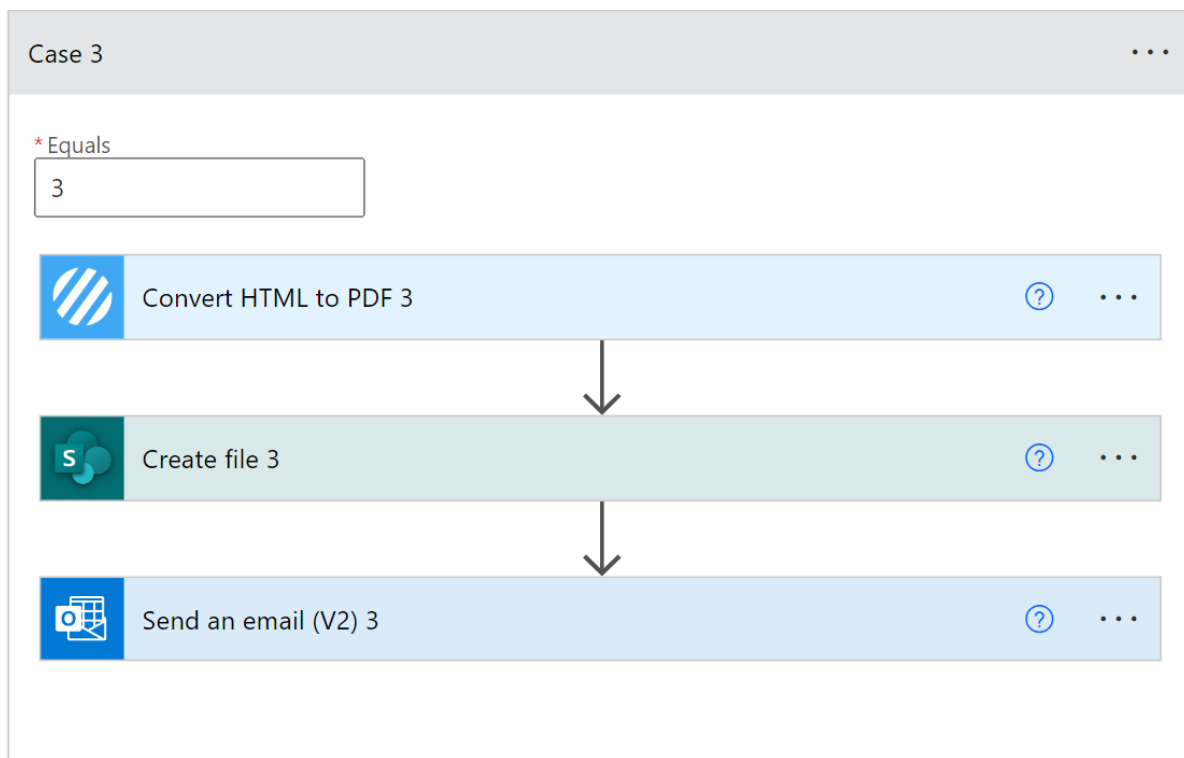
A total of 3 switch cases is set, each with a unique Encodian API key; one for each Encodian account.
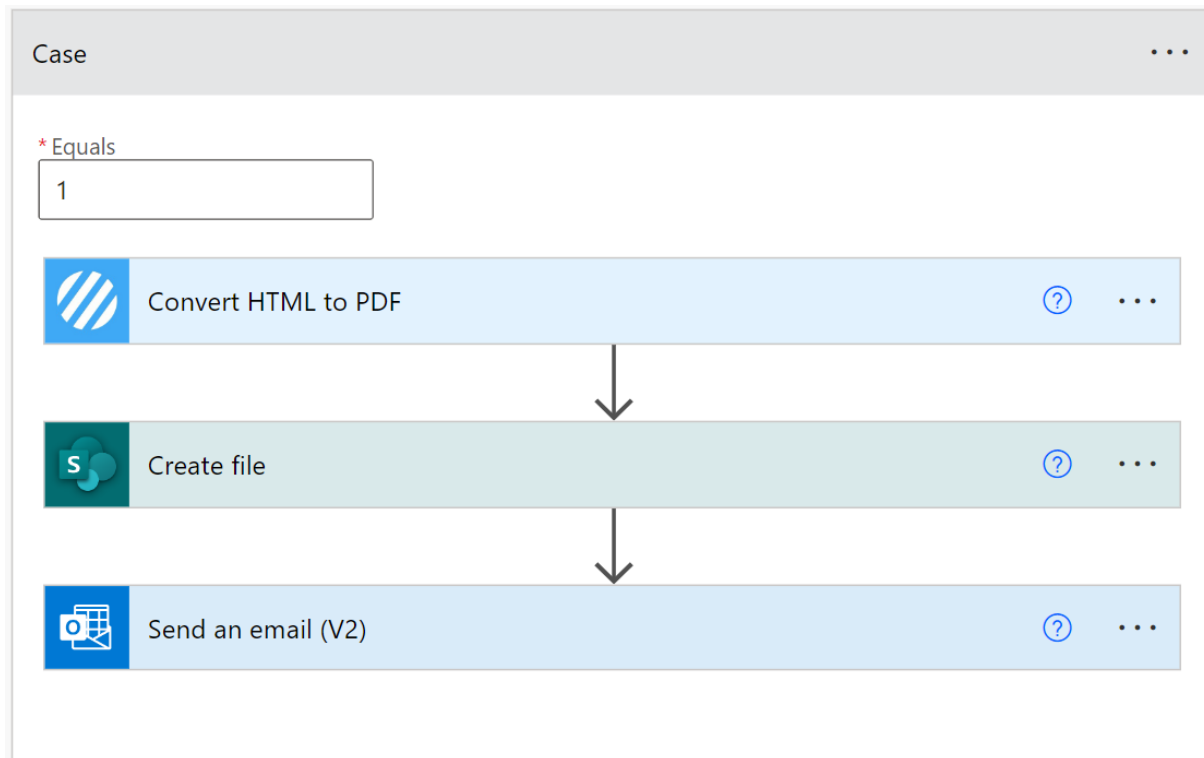
The account with the available actions is referenced in varID, if varID equals to 1, switch flow proceeds to the first case.
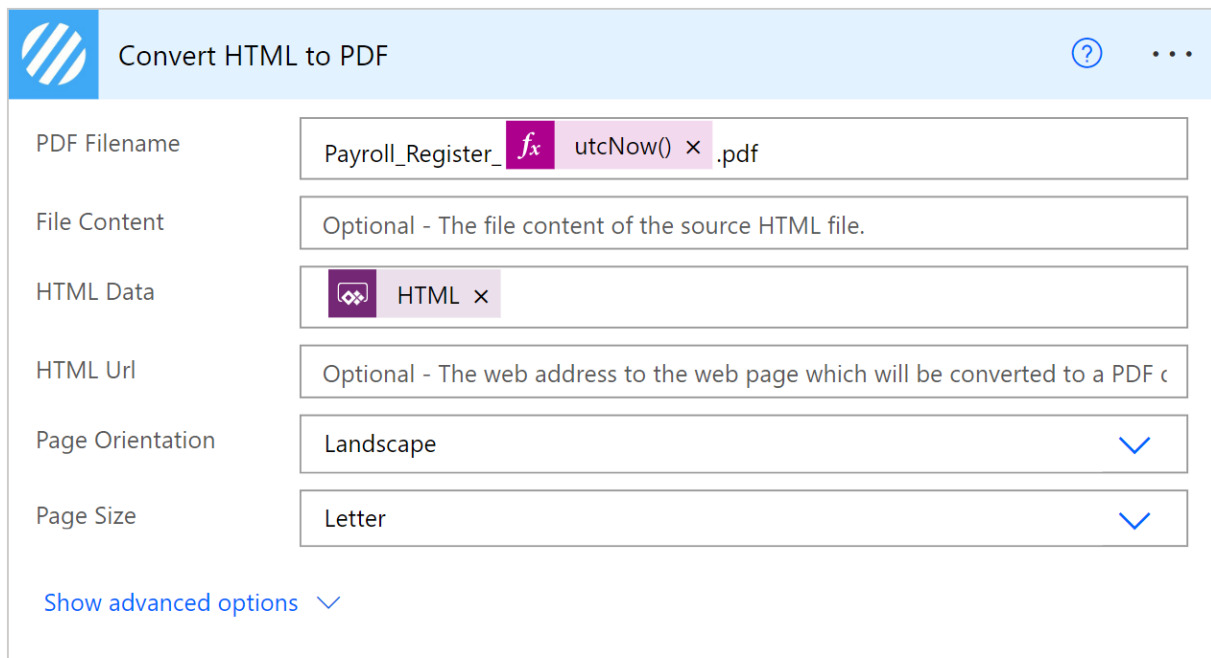
Case 2 · · ·

* Equals

2

 Convert HTML to PDF 2 ⑦ · · ·

↓

 Create file 2 ⑦ · · ·

↓

 Send an email (V2) 2 ⑦ · · ·

If varID equals 2, proceed with case 2.

Case 3 · · ·

* Equals

3

 Convert HTML to PDF 3 ⑦ · · ·

↓

 Create file 3 ⑦ · · ·

↓

 Send an email (V2) 3 ⑦ · · ·

Likewise, proceed with case 3.

Each switch case has similar actions, the only difference is the API key. The actions are as follows:

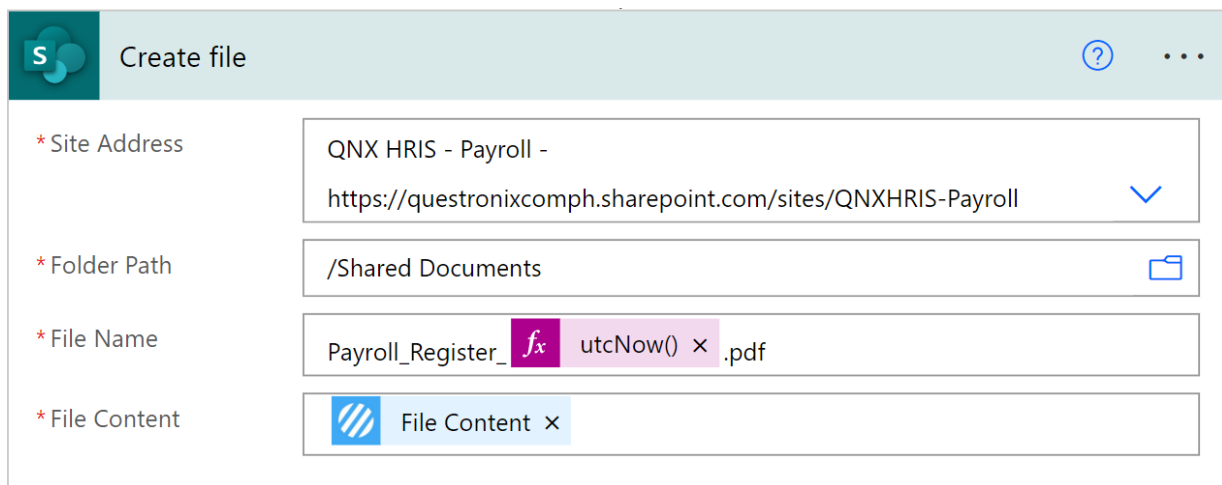The first action converts the HTML into PDF using the Encodian connector.

Next step is to create the file itself containing the converted file content.

The third step sends the output PDF to the user via email.

The final step of the flow is to update the sharepoint list.

Since an action/conversion has been used, 1 action is incremented to the total ActionsMade column of the used Encodian account.

Connections

There are a total of 7 connections used in this Flow:

SharePoint

Connector	SharePoint
Connection Type	Connector
ID	shared_sharepointonline

Source	Invoker

SharePoint

Connector	SharePoint
Connection Type	Connector
ID	shared_sharepointonline_1
Source	Invoker

Office 365 Outlook

Connector	Office 365 Outlook
Connection Type	Connector
ID	shared_office365
Source	Invoker

Office 365 Outlook

Connector	Office 365 Outlook
Connection Type	Connector
ID	shared_office365_1
Source	Invoker

Encodian

Connector	Encodian
Connection Type	Connector
ID	shared_encodiandocumentmanager

Source	Invoker

Encodian

Connector	Encodian
Connection Type	Connector
ID	shared_encodiandocumentmanager_2
Source	Invoker

Encodian

Connector	Encodian
Connection Type	Connector
ID	shared_encodiandocumentmanager_3
Source	Invoker

Variables

varID

Name	varID
Type	integer
Initial Value	1
Used in these Actions	Get_record_from_Encodian_list Increment_varID Initialize_varID Switch_(ID)_for_API_connections Update_record

hasActions

Name	hasActions
Type	boolean
Initial Value	False
Used in these Actions	Intialize_hasActions Set_hasActions_to_true

Trigger

Name	manual
Type	Request
Inputs Details	

schema				
	type	object		
	properties			
		email		
			description	Please enter an e-mail address
			format	email
			title	Email
			type	string
			x-ms-content-hint	EMAIL
			x-ms-dynamically-added	True
		text		
			description	Please enter your input
			title	HTML

		type	string	
		x-ms-content-hint	TEXT	
		x-ms-dynamically-added	True	
	required			
		email		
		text		

Other Trigger Properties	
metadata	
	operationMetadataId	5e6bc770-7432-4da8-b177-43f6713604bf
kind	PowerAppV2

Actions

There are a total of 18 actions used in this Flow:

Check_if_ActionsMade_is_greater_or_equal_to_50

Name	Check_if_ActionsMade_is_greater_or_equal_to_50
Type	If

Expression		
	greaterOrEquals	@outputs('Get_record_from_Encodian_list')?['body/ActionsMade']
		50
Subactions	Increment_varID	
Elseactions	Set_hasActions_to_true	

Convert_HTML_to_PDF

Name	Convert_HTML_to_PDF	
Type	OpenApiConnection	
Connection	Encodian	
Inputs		
host		
	apiId	/providers/Microsoft.PowerApps/apis/shared_encodiandocumentmanager
	connectionName	shared_encodiandocumentmanager_2
	operationId	HtmlToPDF

parameters		
	operation/outputFilename	Payroll_Register_@{utcNow() }.pdf
	operation/htmlData	@triggerBody()['text']
	operation/pageOrientation	Landscape
	operation/pageSize	Letter
	operation/viewPort	Default
	operation/MarginTop	25
	operation/MarginBottom	25
	operation/MarginRight	25
	operation/MarginLeft	25
	operation/enableBookmarks	True
	operation/enableJavaScript	True
	operation/enableHyperlinks	True
	operation/createPdfForm	False
	operation/decodeHtmlData	True
	operation/cssType	Screen
	operation/repeatTableHeader	True
	operation/repeatTableFooter	True
	operation/splitImages	False
	operation/splitTextLines	False
	operation/delay	2000
	operation/FinalOperation	True

authentication		
	value	@json(decodeBase64(triggerOutputs().headers['X-MS-APIM-Tokens']))['$ConnectionKey']
	type	Raw

Next Action(s) Conditions	Create_file [Succeeded]

Convert_HTML_to_PDF_2

Name	Convert_HTML_to_PDF_2
Type	OpenApiConnection
Connection	Encodian
Inputs	
host	

	apiId	/providers/Microsoft.PowerApps/apis/shared_encodiandocumentmanager
	connectionName	shared_encodiandocumentmanager
	operationId	HtmlToPDF

parameters		
	operation/outputFilename	Payroll_Register_@{utcNow() }.pdf
	operation/htmlData	@triggerBody()['text']
	operation/pageOrientation	Landscape
	operation/pageSize	Letter
	operation/viewPort	Default
	operation/MarginTop	25
	operation/MarginBottom	25
	operation/MarginRight	25
	operation/MarginLeft	25
	operation/enableBookmarks	True
	operation/enableJavaScript	True
	operation/enableHyperlinks	True
	operation/createPdfForm	False
	operation/decodeHtmlData	True
	operation/cssType	Screen
	operation/repeatTableHeader	True
	operation/repeatTableFooter	True
	operation/splitImages	False
	operation/splitTextLines	False
	operation/delay	2000
	operation/FinalOperation	True

authentication		
	value	@json(decodeBase64(triggerOutputs().headers['X-MS-APIM-Tokens']))['$ConnectionKey']
	type	Raw

Next Action(s) Conditions	Create_file_2 [Succeeded]

Convert_HTML_to_PDF_3

Name	Convert_HTML_to_PDF_3
Type	OpenApiConnection
Connection	[Encodian](#)
Inputs	
host	

	apiId	/providers/Microsoft.PowerApps/apis/shared_encodiandocumentmanager
	connectionName	shared_encodiandocumentmanager_3
	operationId	HtmlToPDF

parameters		
	operation/outputFilename	Payroll_Register_@{utcNow() }.pdf
	operation/htmlData	@triggerBody()['text']
	operation/pageOrientation	Landscape
	operation/pageSize	Letter
	operation/viewPort	Default
	operation/MarginTop	25
	operation/MarginBottom	25
	operation/MarginRight	25
	operation/MarginLeft	25
	operation/enableBookmarks	True
	operation/enableJavaScript	True
	operation/enableHyperlinks	True
	operation/createPdfForm	False
	operation/decodeHtmlData	True
	operation/cssType	Screen
	operation/repeatTableHeader	True
	operation/repeatTableFooter	True
	operation/splitImages	False
	operation/splitTextLines	False
	operation/delay	2000

	operation/FinalOperation	True

authentication		
	value	@json(decodeBase64(triggerOutputs().headers['X-MS-APIM-Tokens']))['$ConnectionKey']
	type	Raw

Next Action(s) Conditions	Create_file_3 [Succeeded]

Create_file

Name	Create_file
Type	OpenApiConnection
Connection	SharePoint
Inputs	
host	
	apiId	/providers/Microsoft.PowerApps/apis/shared_sharepointonline
	connectionName	shared_sharepointonline
	operationId	CreateFile
parameters	
	dataset	https://questronixcomph.sharepoint.com/sites/QNXHRIS-Payroll
	folderPath	/Shared Documents
	name	Payroll_Register_@{utcNow()}.pdf
	body	@outputs('Convert_HTML_to_PDF')?['body/FileContent']

authentication		
	value	@json(decodeBase64(triggerOutputs().headers['X-MS-APIM-Token']))['$ConnectionKey']
	type	Raw

Next Action(s) Conditions	Send_an_email_(V2) [Succeeded]

Create_file_2

Name	Create_file_2
Type	OpenApiConnection
Connection	[SharePoint](#)
Inputs	

host		
	apiId	/providers/Microsoft.PowerApps/apis/shared_sharepoint online
	connectionName	shared_sharepointonline_1
	operationId	CreateFile

parameters		
	dataset	https://questronixcomph.sharepoint.com/sites/QNXHRIS-Payroll
	folderPath	/Shared Documents
	name	Payroll_Register_@{utcNow()}.pdf
	body	@outputs('Convert_HTML_to_PDF_2')?['body/FileContent']

authentication		
	value	@json(decodeBase64(triggerOutputs().headers['X-MS-APIM-Tokens']))['$ConnectionKey']
	type	Raw

Next Action(s) Conditions	Send_an_email_(V2)_2 [Succeeded]

Create_file_3

Name	Create_file_3
Type	OpenApiConnection
Connection	[SharePoint](#)
Inputs	

host		
	apiId	/providers/Microsoft.PowerApps/apis/shared_sharepointonline
	connectionName	shared_sharepointonline_1
	operationId	CreateFile

parameters		
	dataset	https://questronixcomph.sharepoint.com/sites/QNXHRIS-Payroll
	folderPath	/Shared Documents
	name	Payroll_Register_@{utcNow()}.pdf
	body	@outputs('Convert_HTML_to_PDF_3')?['body/FileContent']

authentication		
	value	@json(decodeBase64(triggerOutputs().headers['X-MS-APIM-Tokens']))['$ConnectionKey']
	type	Raw

Next Action(s) Conditions	Send_an_email_(V2)_3 [Succeeded]

Do_until

Name	Do_until
Type	Until
Expression	@and(less(variables('varID'), 3), equals(variables('hasActions'), true))
Subactions	Get_record_from_Encodian_list Check_if_ActionsMade_is_greater_or_equal_to_50
Next Action(s) Conditions	Switch_(ID)_for_API_connections [Succeeded]

Get_record_from_Encodian_list

Name	Get_record_from_Encodian_list
Type	OpenApiConnection
Connection	[SharePoint](#)
Inputs	

host		
	apiId	/providers/Microsoft.PowerApps/apis/shared_sharepointonline
	connectionName	shared_sharepointonline
	operationId	GetItem

parameters		
	dataset	https://questronixcomph.sharepoint.com/sites/QNXHRIS-Payroll
	table	5918d5a2-e5c4-49b9-a87e-6c3e1ed2beb7
	id	@variables('varID')

authentication		
	value	@json(decodeBase64(triggerOutputs().headers['X-MS-APIM-Tokens']))['$ConnectionKey']
	type	Raw

Next Action(s) Conditions	Check_if_ActionsMade_is_greater_or_equal_to_50 [Succeeded]

Increment_varID

Name	Increment_varID
Type	IncrementVariable
Inputs	
name	varID
value	1

Initialize_varID

Name	Initialize_varID
Type	InitializeVariable
Inputs	
variables	

name	varID
type	integer
value	1

Next Action(s) Conditions	Do_until [Succeeded]

Intialize_hasActions

Name	Intialize_hasActions
Type	InitializeVariable
Inputs	
variables	

name	hasActions
type	boolean
value	False

Next Action(s) Conditions	Initialize_varID [Succeeded]

Send_an_email_(V2)

Name	Send_an_email_(V2)

Type	OpenApiConnection
Connection	Office 365 Outlook
Inputs	

host		
	apiId	/providers/Microsoft.PowerApps/apis/shared_office365
	connectionName	shared_office365
	operationId	SendEmailV2

parameters		
	emailMessage/To	@triggerBody()['email']
	emailMessage/Subject	Payroll Register Sample
	emailMessage/Body	Here is the payroll register generated on @{utcNow()}.
	emailMessage/Attachments	ContentBytes: @outputs('Convert_HTML_to_PDF')?['body/FileContent'] Name: @outputs('Create_file')?['body/Name']

authentication		
	value	@json(decodeBase64(triggerOutputs().headers['X-MS-APIM-Tokens']))['$ConnectionKey']
	type	Raw

Send_an_email_(V2)_2

Name	Send_an_email_(V2)_2
Type	OpenApiConnection
Connection	[Office 365 Outlook](#)
Inputs	

host		
	apiId	/providers/Microsoft.PowerApps/apis/shared_office365
	connectionName	shared_office365_1
	operationId	SendEmailV2

parameters			
	emailMessage/To	@triggerBody()['email']	
	emailMessage/Subject	Payroll Register Sample	
	emailMessage/Body	Here is the payroll register generated on @{utcNow()}.	
	emailMessage/Attachments	ContentBytes	@outputs('Convert_HTML_to_PDF_2')?['body/FileContent']
		Name	@outputs('Create_file_2')?['body/Name']

authentication		
	value	@json(decodeBase64(triggerOutputs().headers['X-MS-APIM-Tokens']))['$ConnectionKey']
	type	Raw

Send_an_email_(V2)_3

Name	Send_an_email_(V2)_3
Type	OpenApiConnection
Connection	Office 365 Outlook
Inputs	

host		
	apiId	/providers/Microsoft.PowerApps/apis/shared_office365
	connectionName	shared_office365_1
	operationId	SendEmailV2

parameters			
	emailMessage/To	@triggerBody()['email']	
	emailMessage/Subject	Payroll Register Sample	
	emailMessage/Body	Here is the payroll register generated on @{utcNow()}.	
	emailMessage/Attachments	ContentBytes	@outputs('Convert_HTML_to_PDF_3')?['body/FileContent']
		Name	@outputs('Get_record_from_Encodian_list')?['body/{Name}']

authentication		
	value	@json(decodeBase64(triggerOutputs().headers['X-MS-APIM-Tokens']))['$ConnectionKey']
	type	Raw

Set_hasActions_to_true

Name	Set_hasActions_to_true
Type	SetVariable
Inputs	
name	hasActions
value	True

Switch_(ID)_for_API_connections

Name	Switch_(ID)_for_API_connections
Type	Switch
Expression	@variables('varID')
Switch Actions	<table><tr><td>Case Values</td><td>Action</td></tr><tr><td>1</td><td>Convert_HTML_to_PDF</td></tr><tr><td>1</td><td>Send_an_email_(V2)</td></tr><tr><td>1</td><td>Create_file</td></tr><tr><td>2</td><td>Convert_HTML_to_PDF_2</td></tr><tr><td>2</td><td>Create_file_2</td></tr><tr><td>2</td><td>Send_an_email_(V2)_2</td></tr><tr><td>3</td><td>Convert_HTML_to_PDF_3</td></tr><tr><td>3</td><td>Create_file_3</td></tr><tr><td>3</td><td>Send_an_email_(V2)_3</td></tr></table>
Next Action(s) Conditions	Update_record [Succeeded]

Update_record

Name	Update_record
Type	OpenApiConnection
Connection	SharePoint
Inputs	
host	

apiId	/providers/Microsoft.PowerApps/apis/shared_sharepointonline
connectionName	shared_sharepointonline
operationId	PatchItem

parameters	

dataset	https://questronixcomph.sharepoint.com/sites/QNXHRIS-Payroll
table	5918d5a2-e5c4-49b9-a87e-6c3e1ed2beb7
id	@variables('varID')
item/Title	@outputs('Get_record_from_Encodian_list')?['body/Title']
item/Email	@outputs('Get_record_from_Encodian_list')?['body/Email']
item/APIKey	@outputs('Get_record_from_Encodian_list')?['body/APIKey']
item/ActionsMade	@add(outputs('Get_record_from_Encodian_list')?['body/ActionsMade'],1)
item/ResetDate	@outputs('Get_record_from_Encodian_list')?['body/ResetDate']
item/LastResetDate	@outputs('Get_record_from_Encodian_list')?['body/LastResetDate']

authentication		
	value	@json(decodeBase64(triggerOutputs().headers['X-MS-APIM-Tokens']))['$ConnectionKey']
	type	Raw

Detailed Flow Diagram

The following chart shows the detailed layout of the Flow