

The BPM Toolkit Developer's Guide

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Pre-requisites

You must install the Power Platform BPM Toolkit by following the Setup guide available on [GitHub](#).

Configuring a request compatible with the BPM Toolkit

In this guide, you will learn how to configure a fictitious HR request named **PPA_PARTTIME** and create a compatible canvas Power application to make it compatible with the BPM Toolkit.

1. Create a SharePoint list named "PPA_PARTTIME"
2. Add the BPM Toolkit columns (**single line of text**) for the BPM Toolkit (when you create these columns, use the modern UI, don't go through the List settings menu to avoid any hidden special characters in the columns name):
Submitter,
On Behalf Of
CaseID
CaseSubmissionStatus
Actors
RequestType
3. Add your custom columns:
From
Percentage
4. Set the Title column **optional**

Your List columns should look like this in the List settings:

Columns

A column stores information about each item in the list. The following columns are currently available in this list

Column (click to edit)	Type
Title	Single line of text
Modified	Date and Time
Created	Date and Time
Submitter	Single line of text
On Behalf Of	Single line of text
CaseID	Single line of text
CaseSubmissionStatus	Single line of text
Actors	Single line of text
From	Single line of text
RequestType	Single line of text
Percentage	Single line of text
To	Single line of text
Created By	Person or Group
Modified By	Person or Group

You can take a look at the SharePoint list PPA_ORDER that comes with the demo.

5. Set the **Title** column optional.
6. Create a **SharePoint Security group** for the request and name it PPA_PARTTIME_GROUP:
 - Go to the **Site settings** menu
 - Select “**Advanced permissions settings.**”
 - Click Create Group, name the group PPA_PARTTIME_GROUP
 - Select the **Read** permission as illustrated below:

Name:

About Me:

[Click for help about adding HT](#)

Group owner:

Who can view the membership of

☒ Group Members

Who can edit the membership of

☒ Group Owner

Allow requests to join/leave this

☐ Yes

Auto-accept requests?

☐ Yes

Send membership requests to the

Choose the permission level group

☐ Full Control - Has full control

☐ Design - Can view, add, and delete

☐ Edit - Can add, edit and delete

☐ Contribute - Can view, add and delete

☒ Read - Can view pages and content

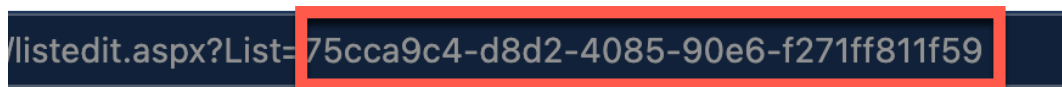
☐ Restricted View - Can view

- Click **Create**.

We will now define the users who are supposed to approve/reject/review the requests of type ORDER.

7. Define the request parameters in the list **BPM Security groups for Case**:

- **Case Type:** PPA_PARTTIME
- **Security Group:** PPA_PARTTIME_GROUP
- **Security Level:** type **HighLevel** (this means that the request and the approval pipeline will be fully secured; other options will be available in the next releases of the BPM Toolkit).
- **RequestListGuid:** the Guid of your PPA_PARTTIME SharePoint list (to find the Guid, go to the SharePoint **site Content** menu, select the **list settings**:



Case Type ▾	Security Group ▾	Security Grou... ▾	SecurityLevel ▾	TeamID ▾	TeamChannelID ▾	RequestListGuid ▾
PPA_ORDER	PPA_ORDER_GROUP		HighLevel	78930ac0-4ccf-4d5c-b8d3-73e3c82bd65a	19:cca6c81cdac04b61845a8bdb195910e7@thead.tacv2	0f54c2da-a5bc-4d71-bbee-a9bda62073ca
ORDER	ORDER_GROUP		HighLevel			
PPA_PARTTIME	PPA_PARTTIME_GROUP		HighLevel			75cca9c4-d8d2-4085-90e6-f271ff811f59

8. Create a workflow with the steps and the roles defined below:

- Go to the SharePoint list **Meta workflows** and add 3 rows with
 - 0, 1, 2 in the **Step** column and
 - PPA_PARTTIME** in the **CaseType** column
 - Feedback** in the **ActionExpected** column

0	_HR_LONDON	PPA_PARTTIME	Feedback
1	_HR_NYC	PPA_PARTTIME	Feedback
2	_DIRECTORS	PPA_PARTTIME	Feedback

If **_HR_LONDON** rejects the **PARTTIME** request, we want the workflow to skip the existing steps and to go to **_Directors**:

- in the **_HR_LONDON** row, set the following properties:

If property ▾	if operation ▾	if value ▾	if Goto ▾
Status		Negative	_SUPERVISORS
Status		Negative	_DIRECTORS

Your Meta-workflow should look like this:

BPM Security groups for Case

Title ▾	Case Type ▾	Security Group ▾	Security... ▾	Security... ▾	TeamID ▾	TeamChannelID ▾	RequestListGuid ▾
	PPA_ORDER	PPA_ORDER_GROUP		HighLevel	78930ac0-4ccf-4d5c-b8d3-73e3c82bd65a	19:cca6c81cdac04b61845a8bdb195910e7@thead.tacv2	0f54c2da-a5bc-4d71-bbee-a9bda62073ca
	ORDER	ORDER_GROUP		HighLevel			
	PPA_PARTTIME	PPA_PARTTIME_GROUP		HighLevel			75cca9c4-d8d2-4085-90e6-f271ff811f59

- Go to the SharePoint list **BPM Roles** and create the **3 roles** in the **Role** column:

BPM Roles

Title ▾	Role ▾
	_SUPP_PARIS
	_SUPP_NYC
	_SUPERVISORS
	SYSTEM SUPERVISOR
	_HR_LONDON
	_HR_NYC
	_DIRECTORS

- Go to the SharePoint list **BPM Persons in Roles** and associate the roles with your e-mail:

BPM Persons in Roles

Title ▾	PersonEmail ▾	Active ▾	Role ▾
	sergeluca@doctorflow 1.onmicrosoft.com		_SUPERVISORS
	sergeluca@doctorflow 1.onmicrosoft.com		_SUPP_NYC
	sergeluca@doctorflow 1.onmicrosoft.com		_SUPP_PARIS
	sergeluca@doctorflow 1.onmicrosoft.com		SYSTEM SUPERVISOR
👤	sergeluca@doctorflow 1.onmicrosoft.com		_HR_LONDON
👤	sergeluca@doctorflow 1.onmicrosoft.com		_HR_NYC
👤	sergeluca@doctorflow 1.onmicrosoft.com		_DIRECTORS

Creating a request Power Apps application for the BPM Toolkit

1. Create a Solution named BPM Toolkit Lab:

New solution ✕

Display name *

Name *

Publisher *
 ▼

Version *

[More options](#) ▼

2. Create a **Power Apps canvas** application.
3. Add a **SharePoint connection** to your PPA_PARTTIME SharePoint list.
4. Add an **Officer365 Users** connection.
5. Create the first screen that should look like this:

Part-time request

Power Platform Associates

From:
Text input

To:
Text input

Percentage:
Text input

On behalf of:
bpmtoolkit@doctorflow1.onmicrosoft. ▼

Submitter:
sergeluca@doctorflow1.onmicrosoft.com

Save (draft) Submit to approval

6. Rename the controls:

txtFrom, **txtTo**, **txtPercentage**, **txtSubmitter**, **dropOnBehalfOf**

7. Set the **Default** property of **dropOnBehalfOf** to `Office365Users.MyProfileV2().mail`

8. Set the **Items** property of **dropOnBehalfOf** to `Office365Users.SearchUser({searchTerm:""})`

9. Set the **Default** property of **txtSubmitter** to `Office365Users.MyProfileV2().mail`

10. In the **App OnStart** event, write:

```
Set (
    gblCaseID,
    ""
);
Set (
```

```

        gblAction,
        Param("action")
    );
    Set (
        gblCaseID,
        Param("CaseID")
    );
    If (
        gblAction = "view" Or gblAction = "edit",
        Set (
            gblPPA_PartTime,
            LookUp (
                PPA_PARTTIME,
                CaseID = gblCaseID
            )
        )
    )
)

```

11. In the **ButtonSaveDraft** select event, write this:

```

Set(
    gblSubmitter,
    txtSubmitter.Text
);
Set(
    gblOnBehalfOf,
    dropOnBehalfOf.Selected.Mail
);
Set (
    gblCaseDescr,
    "Part-time request for " & Left(
        gblOnBehalfOf,
        Find(
            "@",
            gblOnBehalfOf
        ) - 1
    )
);
Set (
    gblFrom,
    txtFrom.Text
);
Set(
    gblTo,
    txtTo.Text
)

```

```

);
Set(
    gblPercentage,
    txtPercentage.Text
);
Set (
    gblPartTime,
    {
        /* Mandatory for BPM Toolkit */
        CaseID: gblCaseID,
        /* Mandatory for BPM Toolkit */
        Submitter: gblSubmitter,
        /* Mandatory for BPM Toolkit */
        OnBehalfOf: gblOnBehalfOf,
        /* Mandatory for BPM Toolkit, Must be FINAL or DRAFT */
        CaseSubmissionStatus: "DRAFT",
        /* Mandatory for BPM Toolkit */
        RequestType: "PPA_PARTTIME",
        /* Mandatory for BPM Toolkit */
        CaseDescr: gblCaseDescr,
        /* Optional for BPM Toolkit, connect to Actor in Meta-workflows */
        Actors: "",
        From: gblFrom,
        To: gblTo,
        Percentage: gblPercentage
    }
);

```

12. In the **ButtonApproval** select event, write the same code, but **CaseSubmissionStatus:** "FINAL".
13. Add a reference to the flow **BPM Toolkit SubmitFormData** Proxy and submit the data

```

Set ( newOrder,'BPMToolkit-SubmitFormData-Proxy'.Run(
    JSON(
        gblOrder,
        JSONFormat.IndentFour
    )
));

```

The information will automatically be submitted and stored in your SharePoint list. This works generically if the name of the properties of your PowerApps object map exactly to your SharePoint list columns.

14. Add a screen to display that the operation has successfully be done.
Save and publish your application.
15. Go to the SharePoint list **BPM Forms** and add an entry for the PPA_PARTTIME request.

- For the **ViewForm** column, append the application id with ?action=view&CaseID=
- For the **EditForm** column, append the application id with ?action=edit&CaseID=

BPM Toolkit Github

Private group

BPM Forms			
Title	ViewForm	CaseType	EditForm
	https://apps.powerapps.com/play/f79a837e-1d17-4815-bc90-2b1115de9fd3?tenantId=c8b22ee7-bf50-4f29-a5b2-654ca423731b?action=view&CaseID=	PPA_ORDER	https://apps.powerapps.com/play/f79a837e-1d17-4815-bc90-2b1115de9fd3?tenantId=c8b22ee7-bf50-4f29-a5b2-654ca423731b?action=edit&CaseID=
	https://apps.powerapps.com/play/6d5ea6ab-57df-49ca-a770-592c163686c5?tenantId=c8b22ee7-bf50-4f29-a5b2-654ca423731b?action=view&CaseID=	PPA_PARTTIME	https://apps.powerapps.com/play/6d5ea6ab-57df-49ca-a770-592c163686c5?tenantId=c8b22ee7-bf50-4f29-a5b2-654ca423731b?action=edit&CaseID=

16. Go to the SharePoint list **BPM Case Categories** and add an entry for PPA_PARTTIME

BPM Toolkit Github

Private group

BPM Case Categories				
Title	Workflow	Case Category	Case Type Int...	Case Type Frie...
		ORDER	PPA_ORDER	ORDER
		Work Time and leave	PPA_PARTTIME	PARTTIME

17. Run your PowerApps application and submit the first request, save it as a draft.

18. If you followed the BPM Toolkit Setup Guide, the My Dashboard is available on your SharePoint site homepage:



19. Go to the My Dashboard app; the request should be visible in the DRAFT category:

Status	Submitted on	Request Id	Name of requester	Type	Action
	17/01/2021 16:00	Req-2021-01-17T16:00:08.2952067	sergeluca	PARTTIME	

20. If you click on the View or Edit button on the request:



Your application will load, but the associated data won't show-up: we still have to update the application slightly.

21. Edit your Power Apps application, and edit the Main form:

- Set the default property of the **from** field to `gblPPA_PartTime.From`



- Set the default property of the **To** field to `gblPPA_PartTime.To`
- Set the default property of the **Percentage** field to `gblPPA_PartTime.Percentage`
- Set the default property of the **On Behalf Of** to

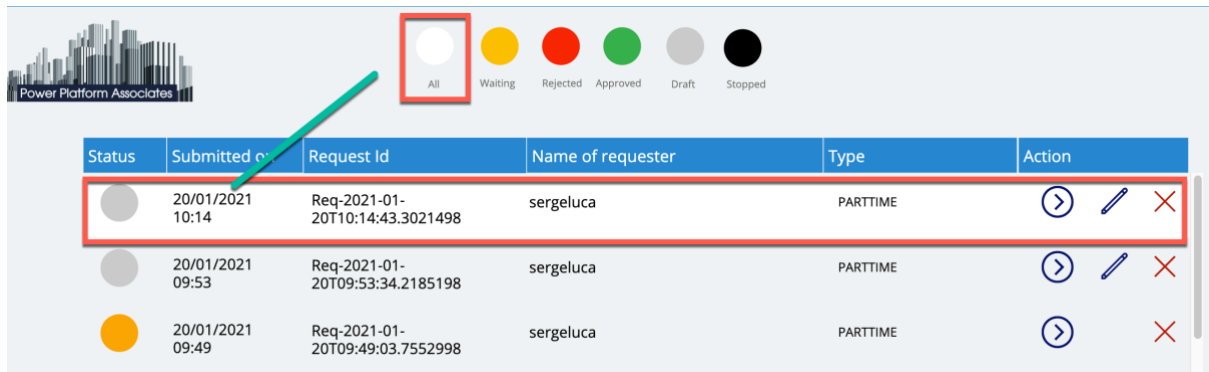
`If (gblAction <> "view" And gblAction <> "edit", Office365Users.MyProfileV2().mail, gblPPA_PartTime.OnBehalfOf)`







22. Save and publish your form.












Using the BPM Toolkit My Dashboard

23. Go back to **My Dashboard** application and edit the request. Change some data and save the request as a draft again. Reload it to see if your request has been updated.

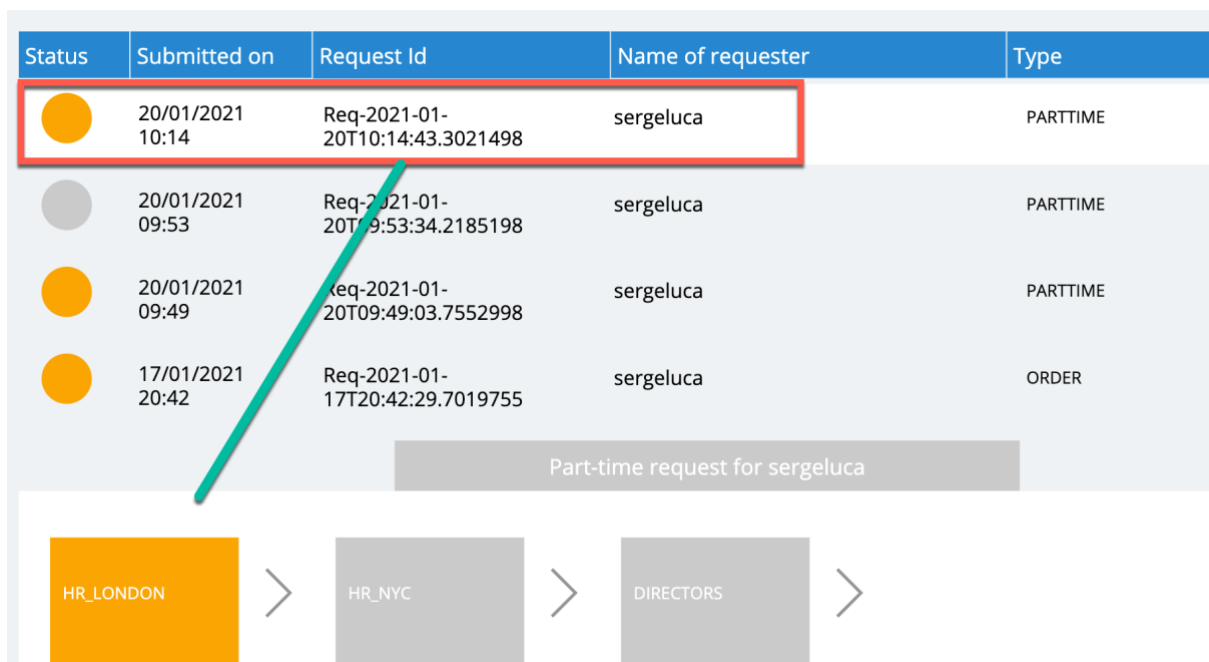



24. Submit the request as a draft.
25. Go to My Dashboard, edit the request and send it to approval.
26. The request is no longer in the Draft category; it is transitioning to Waiting.



Status	Submitted on	Request Id	Name of requester	Type	Action
					
					
					
					
					
					

Status	Submitted on	Request Id	Name of requester	Type	Action
	20/01/2021 10:14	Req-2021-01-20T10:14:43.3021498	sergeluca	PARTTIME	  
	20/01/2021 09:53	Req-2021-01-20T09:53:34.2185198	sergeluca	PARTTIME	  
	20/01/2021 09:49	Req-2021-01-20T09:49:03.7552998	sergeluca	PARTTIME	 

After 1 minute, the workflow will be visible in the My Dashboard, and eventually, the first step will be orange (Waiting).

Status	Submitted on	Request Id	Name of requester	Type
	20/01/2021 10:14	Req-2021-01-20T10:14:43.3021498	sergeluca	PARTTIME
	20/01/2021 09:53	Req-2021-01-20T09:53:34.2185198	sergeluca	PARTTIME
	20/01/2021 09:49	Req-2021-01-20T09:49:03.7552998	sergeluca	PARTTIME
	17/01/2021 20:42	Req-2021-01-17T20:42:29.7019755	sergeluca	ORDER

Part-time request for sergeluca

HR_LONDON

>

HR_NYC

>

DIRECTORS

>

So basically, end users submitting requests can follow the business process on the y Dashboard.

It is essential to know that end users can only watch the evolution of their request. They won't see who in the pipeline did accept or reject or comment on the request: this is on purpose for confidentiality reasons: only actors in the pipeline can see the comments. Only "officers" can see more details using the Workflow Control Center (we will illustrate it later). If an officer adds a new actor to the workflow during the process, end-users won't see who this actor is. They will only see a unique shape named "ad hoc step" as illustrated below:



Submitting additional approvers/reviewers

Even though the actors are usually defined in the metaworkflow, you might have to add additional actors on the fly when you submit the form.

This is the role of Actor field of your Power Aps object:

For instance:

```

Set (
  gblPartTime,
  {
    /* Mandatory for BPM Toolkit */
    CaseID: gblCaseID,
    /* Mandatory for BPM Toolkit */
    Submitter: gblSubmitter,
    /* Mandatory for BPM Toolkit */
    OnBehalfOf: gblOnBehalfOf,
    /* Mandatory for BPM Toolkit, Must be FINAL or DRAFT */
    CaseSubmissionStatus: "FINAL",
    /* Mandatory for BPM Toolkit */
    RequestType: "PPA_PARTTIME",
    /* Mandatory for BPM Toolkit */
    CaseDescr: gblCaseDescr,
    /* Optional for BPM Toolkit, connect to Actor in Meta-workflows */
    Actors: "ivc@doctorflow2.onmicrosoft.com;liza@doctorflow2.onMicrosoft.com",
    From: gblFrom,
    To: gblTo,
    Percentage: gblPercentage
  }
);
  
```

Now the question is where will these actors be placed in the sequence of the meta workflow? You just need to add a step where the column Actor is “Actors”. The following sequence:

Step ↑ ▾	Actor ▾	Type of actor ▾	CaseType ▾ ▾	ActionExpected ▾
0	_HR_LONDON		PPA_PARTTIME	Feedback
1	_HR_NYC		PPA_PARTTIME	Feedback
2	Actors		PPA_PARTTIME	Feedback
3	_DIRECTORS		PPA_PARTTIME	Feedback

...will generate the workflow:



Security

The current BPM Toolkit security level for all requests is “HighLevel”. This is what you defined in the SharePoint list **BPM Security groups for Case**.

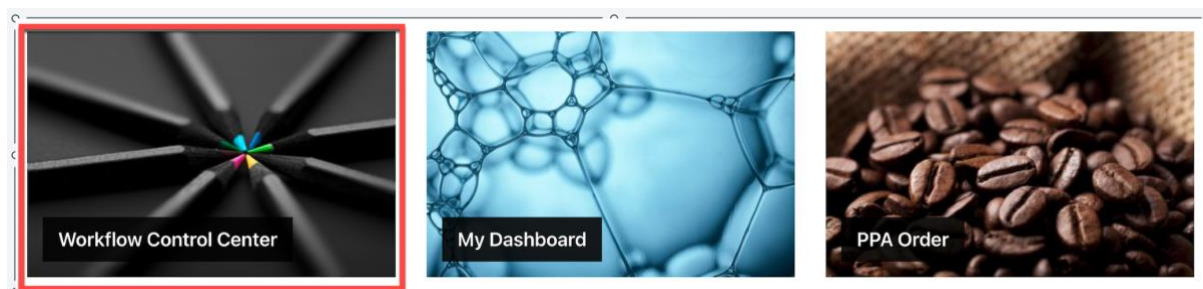
This means that the request details in your custom request list, but also in the BPM Toolkit system lists are only available in read only mode to the requester, the On Behalf of and users in the approval/review pipeline even if these users are added dynamically when the workflow is already started.

Basically, everything is strictly secured.

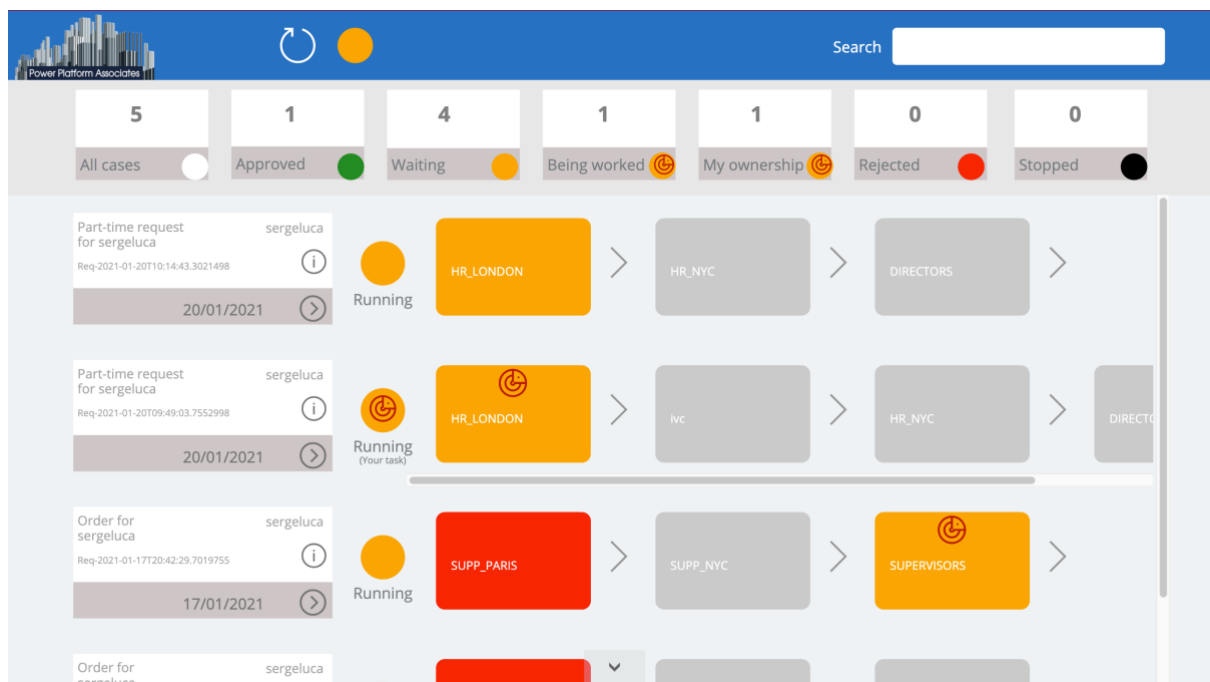
We will provide another optional security model in the next releases.

Using the BPM Toolkit Workflow Control Center

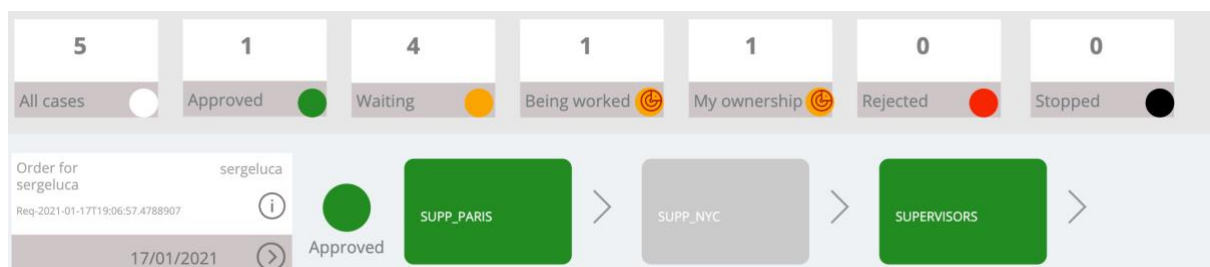
You played the end-user role submitting a request, but now you will play the HR officer's role in managing the request. And this activity takes place in the Workflow Control Center:



If you want to access the Workflow Control Center application, your e-mail address must be mentioned in the SharePoint list BPM persons in Roles; this is the case if you followed the procedure.



At the top of this screen, some essential KPIs and filters have been provided. For instance, if you click on the Approved filter, you will only see the business process finalized with an approved status.



Same logic for Rejected, Waiting, Stopped, and All Cases.

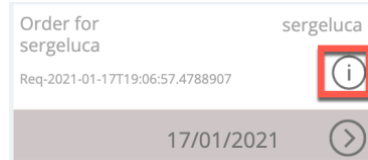
The KPIs in the filters are not calculated in real-time; there is a scheduled flow named **BPM Toolkit - Statistics Schedule Statistics** in the BPM Toolkit solution that calculates these KPIs.

The filter **My Ownership** filters all workflows locked by you, meaning that you are working on them.

The filter **Being worked** is supposed to filter all workflows locked by someone. The filter does not work yet in the preview.

The search is not activated yet in the preview.

To display the request details, you must click on the “i” icon.



Order for sergeluca sergeluca
Req-2021-01-17T19:06:57.4788907
17/01/2021

The associated form will show-up :



Part-time request

From: 10/10/2021

To: 11/12/2022

Percentage: 50%

On behalf of: sergeluca@doctorflow1.onmicrosoft.com

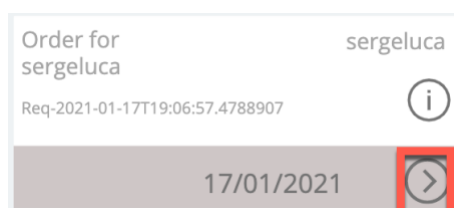
Submitter: sergeluca@doctorflow1.onmicrosoft.com

Save (draft) Submit to approval

We will have to update the code to allow or not edit by the workflow officers when the request is not DRAft anymore, but we will do that later.

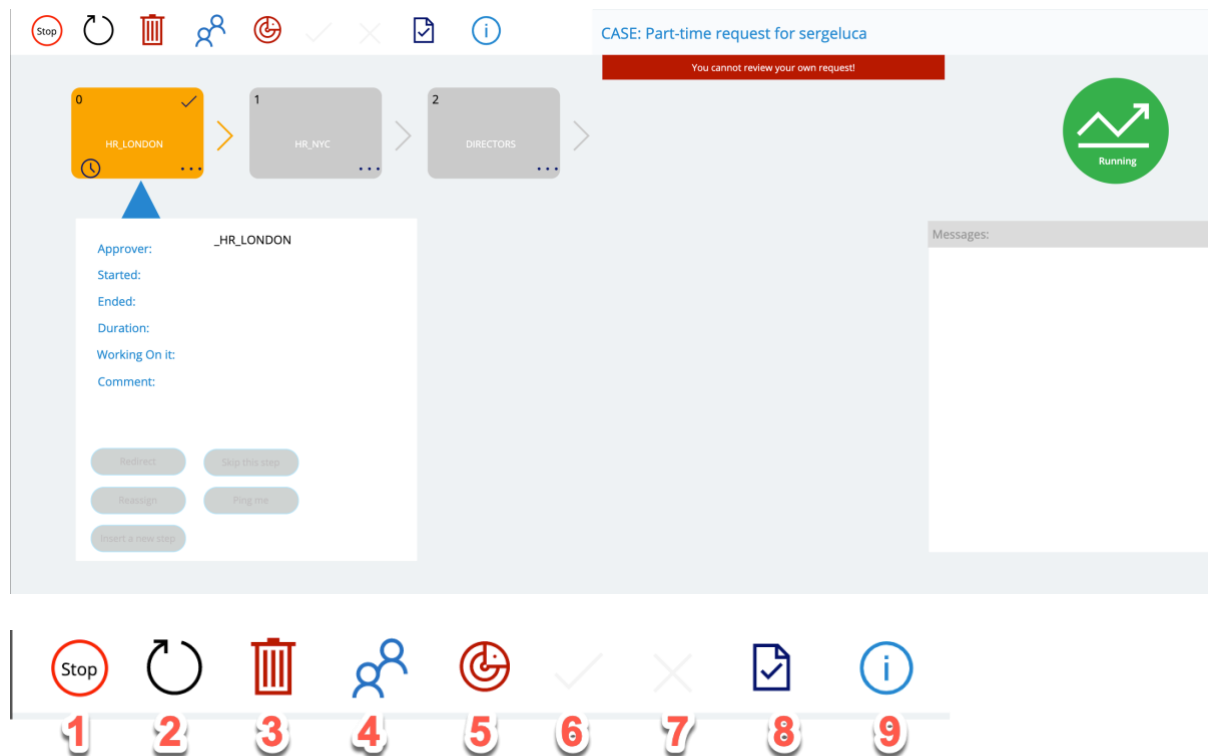
Using the BPM Toolkit Workflow Panel

Back to the Workflow Control Center.
Clicking the workflow arrow :



Order for sergeluca sergeluca
Req-2021-01-17T19:06:57.4788907
17/01/2021

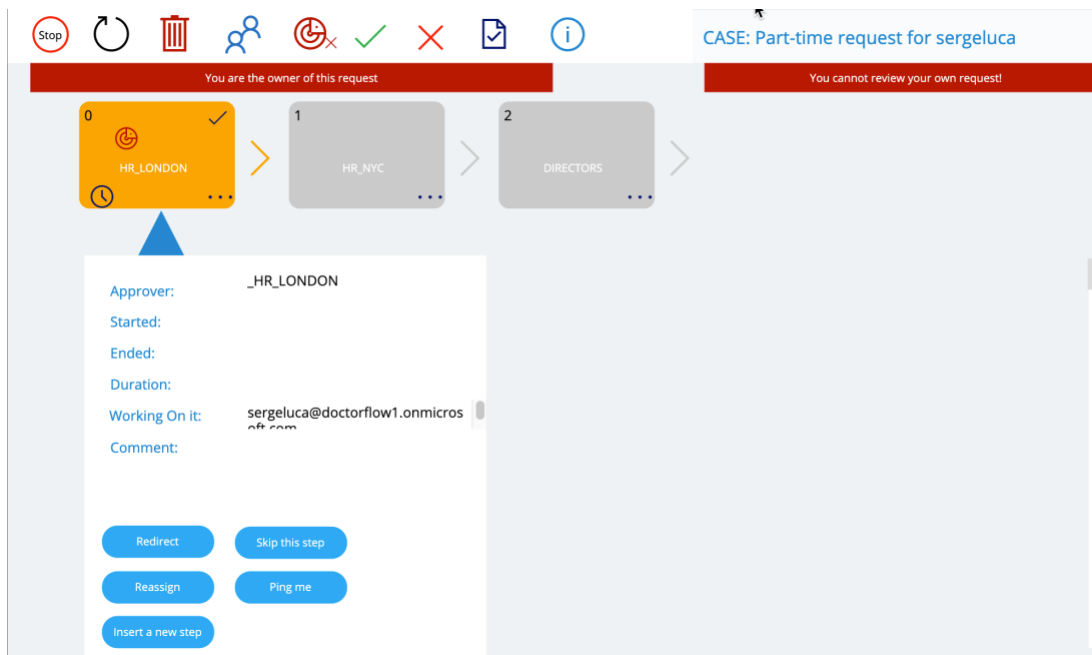
...will open the **Workflow Panel**:



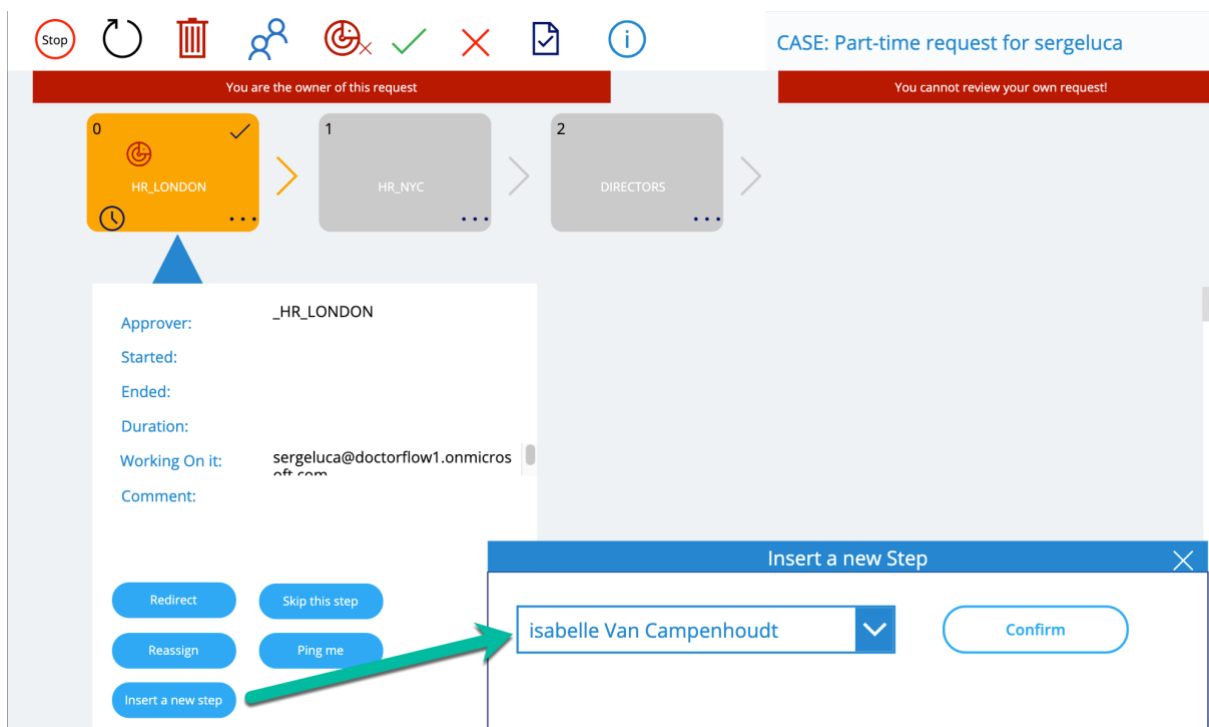
This is where, as a workflow officer, you can act on the request.

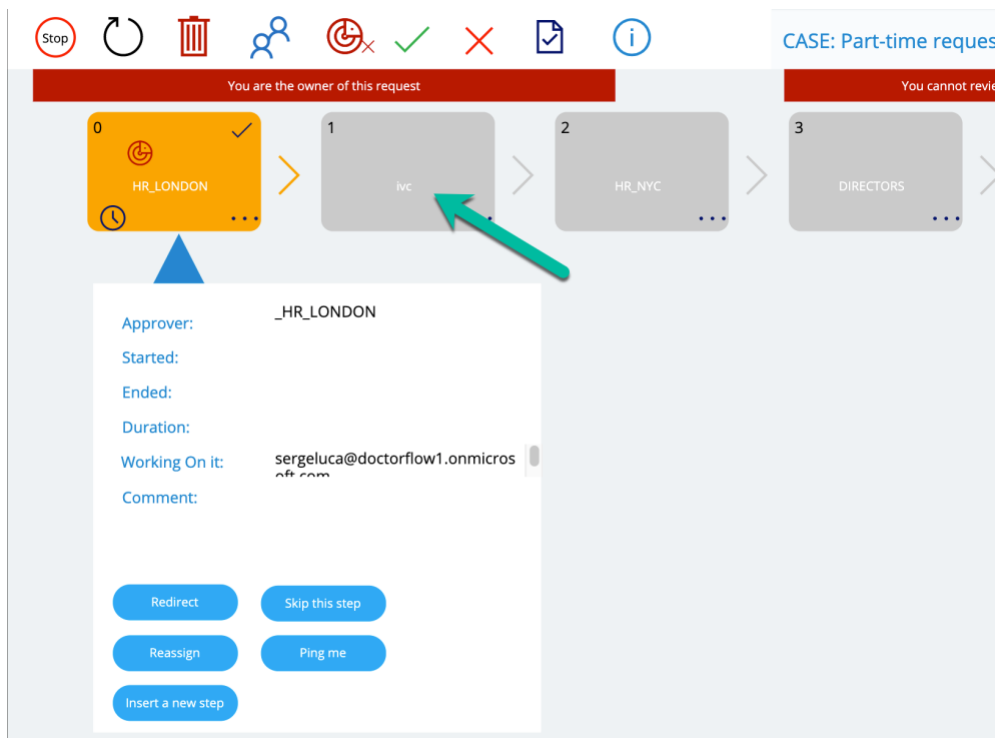
- (1) The first icon, "stop," stops the workflows. When stopped, the workflow cannot restart.
- (2) This icon is for refreshing the panel
- (3) The Bin icon allows you to remove the workflow; it is visible if your role is defined as System supervisor in the SharePoint list BPM Persons in Role. System Supervisor in an out of the box role.
- (4) This icon displays your roles
- (5) This icon allows the current user to take ownership of the process
- (6) This icon allows approving the request
- (7) This icon allows rejecting the request
- (8) This icon adds a message in the internal messaging system associated with the request
- (9) This icon displays the request details

If you take ownership of the request, new functionalities will be available (see below buttons in blue):

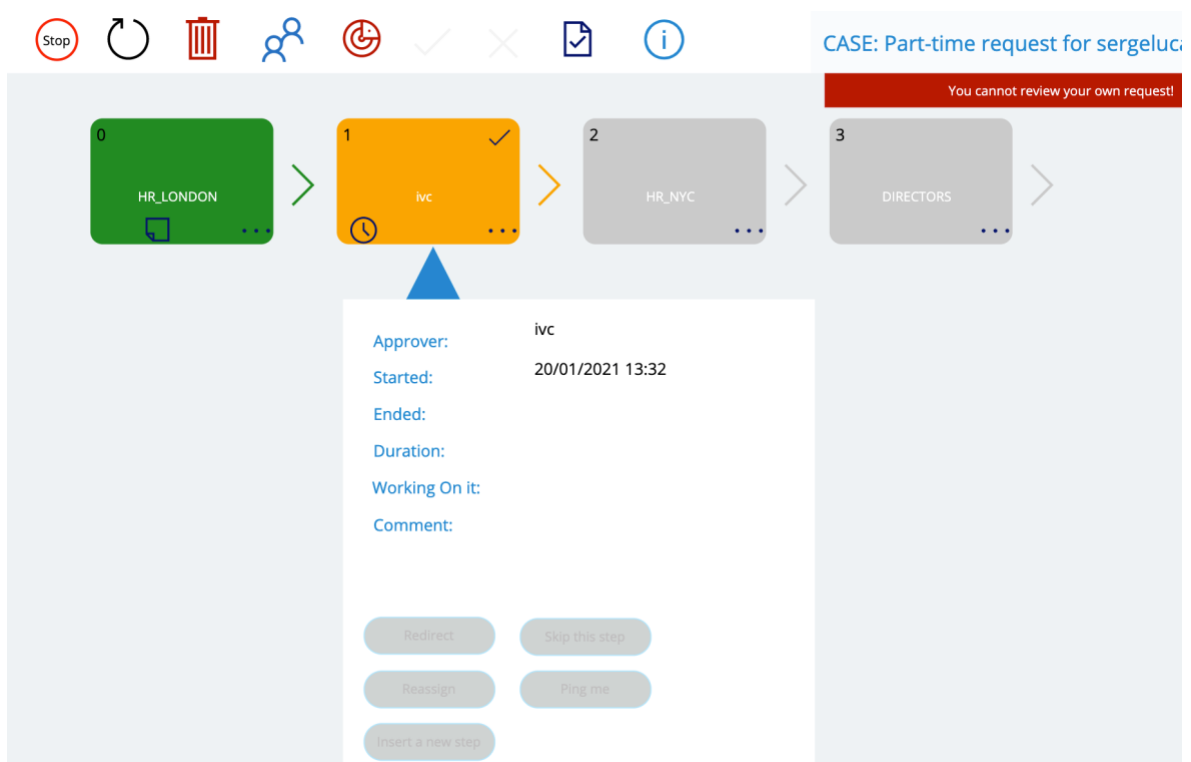


For instance, if you click on Insert a new Step, you will add a new user in the approval/review pipeline:



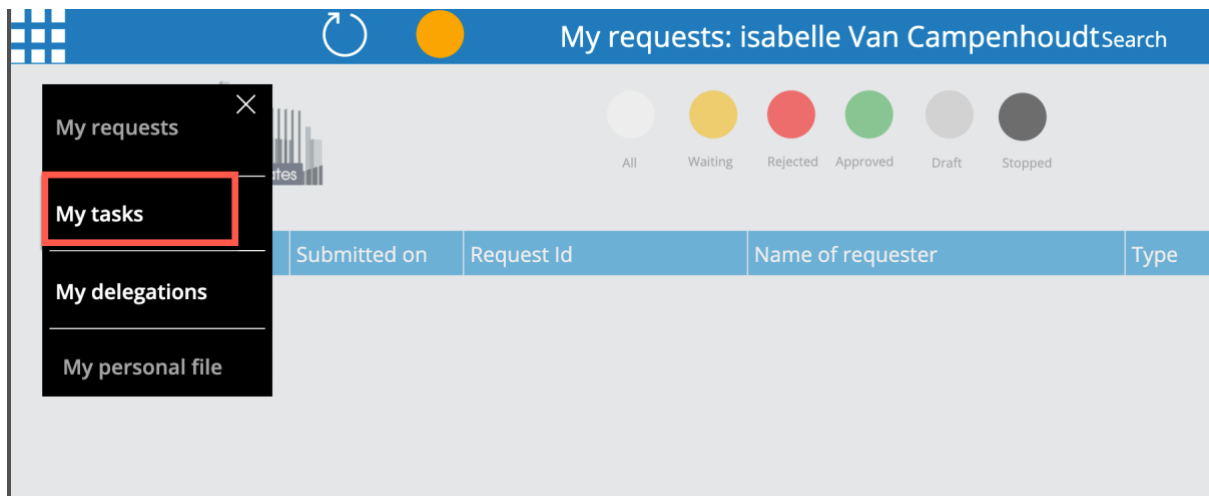


This person is probably not an officer, so that she won't access the Workflow Control Center. But she can approve in the My Dashboard. If we approve, the waiting site will switch to the next step:

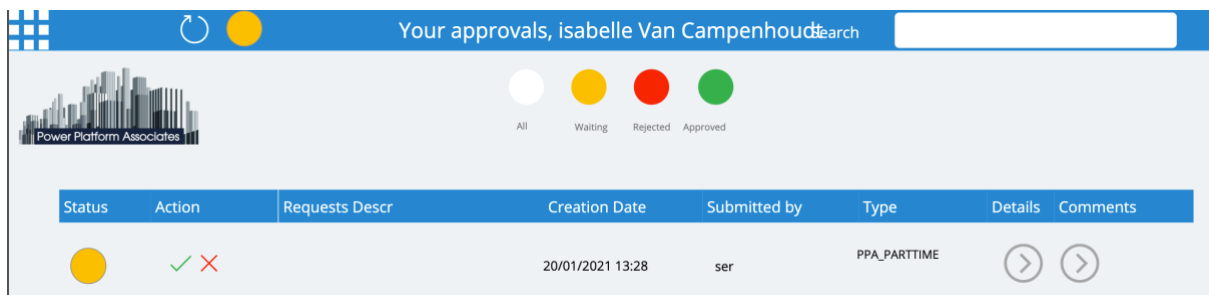


Using the BPM Toolkit My Dashboard Tasks

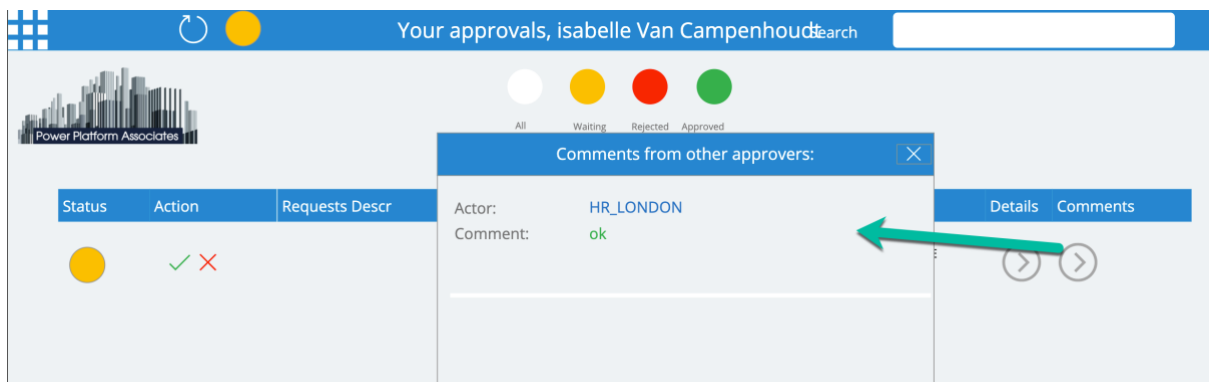
If this user (here: ivc) switches to her My Dashboard, she can click the My tasks menu item:



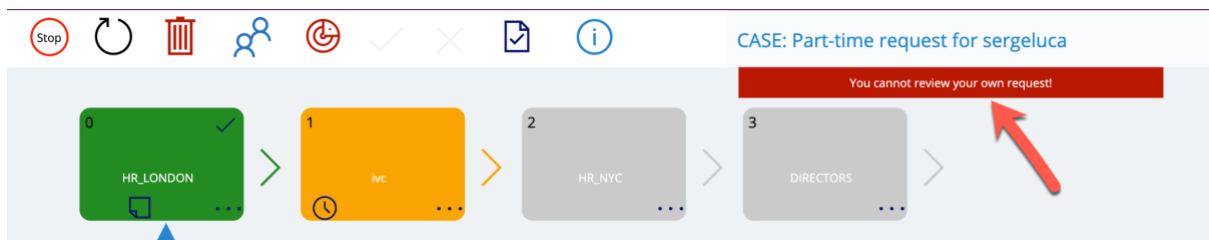
...and she will see her pending tasks:



She can accept/reject, see the request details or even see the comments of the previous approvers:



It is also important to mention that many businesses (like HR) don't allow you to accept/reject a request to you submit. If you followed the Setup guide instructions, you should see this warning message:



In test mode, we allow it because one of the BPM Toolkit parameters is set to Yes by one of the flows that you started during the setup (the flow is **BPM Toolkit – Configuration**)

BPM Parameters

Title ▾	Description ▾	ParamName ▾	ParamValue ▾
	If "No" : users cannot see the workflow approval panel if they want to approve their own request (or a request submitted on their own behalf). No should be the default value in production. "Yes" can be used in Test	AllowSelfValidation	Yes

If you switch the ParamValue to No (which should be the value in production), you will get the following error message when you display the Workflow Panel:



Not Authorized, you cannot approve your own requests...

Implementing GO TO (automatic workflow redirection)

Let's take our previous Meta workflow. If the role HR_LONDON rejects the request, we want the system to automatically redirect the process to DIRECTORS.

Go to the Meta workflow SharePoint list edit the HR_LONDON role:

Abc

Actor

Abc

_HR_LONDON

Abc

Type of actor

Enter value here

Abc

CaseType

PPA_PARTTIME

Abc

ActionExpected

Feedback

Abc

Goto Step

Enter value here

Abc

If property

Status

Abc

if operation

Enter value here

Abc

if value

Negative

Abc

if Goto

_DIRECTORS

Abc

WorkflowIDToRun

Save your change.

Redirect your previous process to Step 0 and reject:

Stop Refresh Delete Add Cancel Confirm Info

CASE: Part-time request for sergeluca

You are the owner of this request

You cannot review your own request!

0 HR_LONDON 1 lvc 2 HR_NYC 3 DIRECTORS

Approver: _HR_LONDON
 Started: 20/01/2021 13:31
 Ended: 20/01/2021 13:31
 Duration:
 Working On it: sergeluca@doctorflow1.onmicros
 Comment:

Redirect Skip this step
 Reassign Ping me
 Insert a new step

Then the current step will become Red (meaning “rejected”):

Stop Refresh Delete Add Cancel Confirm Info

CASE: Part-time request for sergeluca

You are the owner of this request

You cannot review your own request!

0 HR_LONDON 1 lvc 2 HR_NYC 3 DIRECTORS

Approver: _HR_LONDON
 Started: 20/01/2021 14:29
 Ended: 20/01/2021 14:29
 Duration:
 Working On it: sergeluca@doctorflow1.onmicros
 Comment: no

...and after 20 seconds (you should refresh the screen), it will move directly to the role Directors:

Stop Refresh Delete Add Cancel Confirm Info

CASE: Part-time request for sergeluca

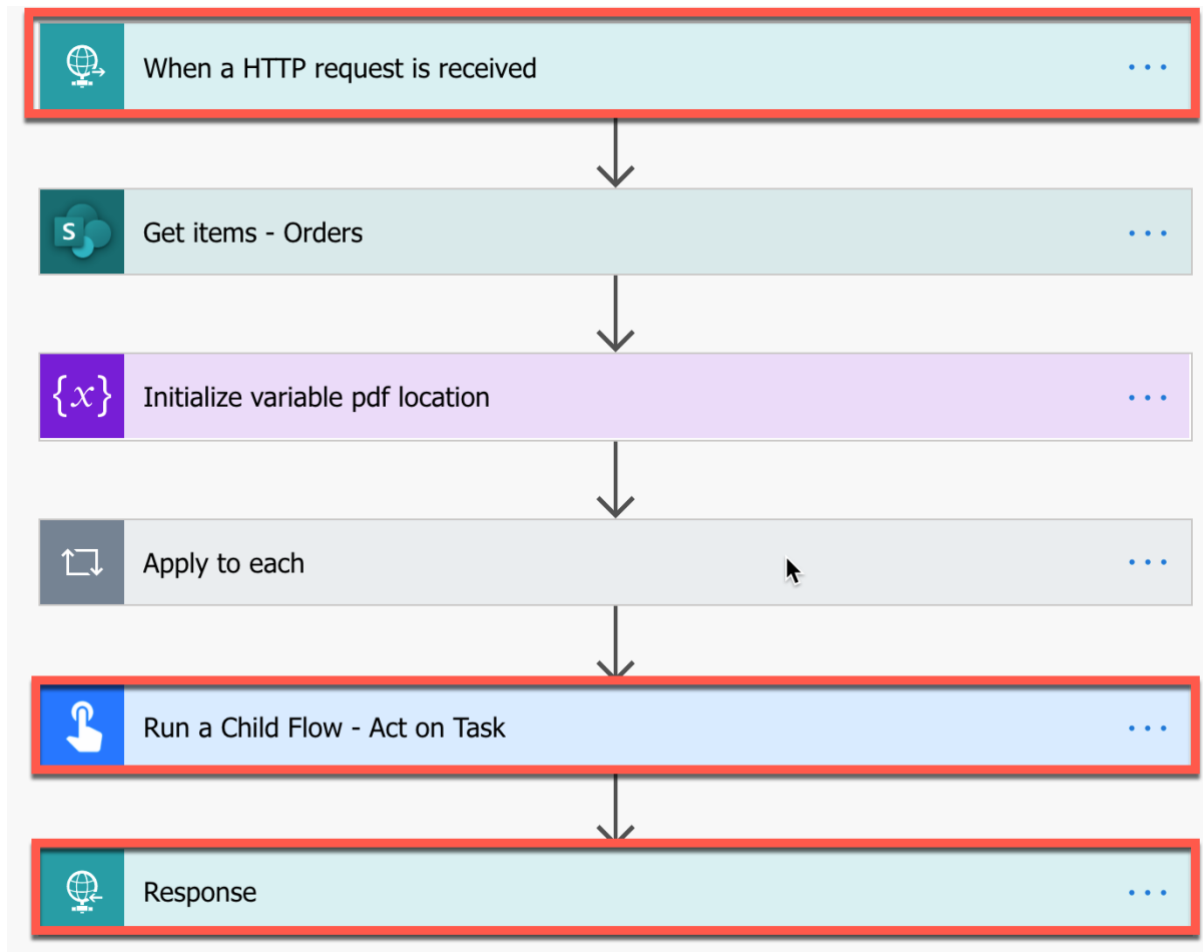
You cannot review your own request!

0 HR_LONDON 1 lvc 2 HR_NYC 3 DIRECTORS

Creating custom actions

The out of the box actions of the BPM Toolkit are approve/reject/review. We can create custom action to do whatever you want, like document creation, RPA (Robotic Process Automation), you name it....

To create a custom action in this version of the BPM Toolkit, you must create a web service flow, a flow with a trigger **When a HTTP request is received**, and a **Response** action as illustrated below:



The schema of the trigger must be:

```
{
  "type": "object",
  "properties": {
    "CaseID": {
      "type": "string"
    },
    "Step": {
      "type": "string"
    }
  }
}
```

```
}  
}  
}
```

And before the Response action, you are supposed to call the flow **BPM Toolkit – Act on Task** to alert the workflow runtime:

Run a Child Flow - Act on Task

- * Child Flow: BPM Toolkit - Act on Task
- * CaseID: CaseID
- * NewStatus: Positive
- * Step: Step
- * NewComment: Document generated is here : {x} pdf location
- * Actor: Workflow

To use **When a HTTP request** and **Response**, you need a premium license that covers the whole company. The recommendation is to buy a per-flow license (500\$/month), giving you five premium flows. Additional flows cost 100\$/month.

In the release version of the BPM Toolkit, we will provide extra parameters to make more general and reusable service flows.

BPM Toolkit Teams Integration

The first level of MS Teams integration is provided with this version of the BPM Toolkit. The idea is that for each type of request, a dedicated Teams channel will host the conversations. Typically, if the team in charge of Part-time requests need a safe/confidential place for discussing the Part-time cases, you can create a private channel for this type of requests:

CT

Power Platform Associates Team

...

General

Order requests

Create a channel for "Power Platform Associates Team" team

Channel name

Description (optional)

Privacy

Private - Accessible only to a specific group of people within the team

Cancel

Next

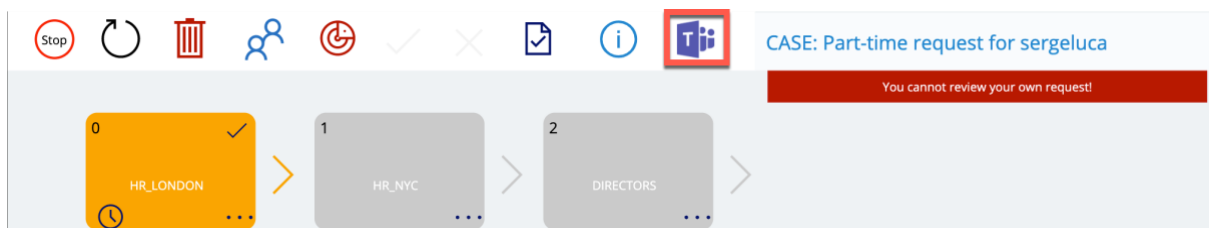
Now retrieve your Teams id and Channel id and store these values in the SharePoint list BPM Security groups for Case in your Case Type row:

BPM Security groups for Case

Case Type	Security Group	Security...	Security...	TeamID	TeamChannelID	RequestListGuid
PPA_ORDER	PPA_ORDER_GROUP	HighLevel		78930ac0-4ccf-4d5c-b8d3-73e3c82bd65a	19:cca6c81cdac04b61845a8bdb195910e7@thead.tacv2	0f54c2da-a5bc-4d71-bbee-a9bda62073ca
ORDER	ORDER_GROUP	HighLevel				
PPA_PARTTIME	PPA_PARTTIME_GROUP	HighLevel		78930ac0-4ccf-4d5c-b8d3-73e3c82bd65a	9:a91d1b51a7344ee8bba41fa51ddd6c99@thead.tacv2	75cca9c4-d8d2-4085-90e6-f271ff811f59

Now, if you submit a new PPA_PARTTIME request from your Power Apps application, a discussion in the Teams channel will be created.

In the Workflow Panel, you will now see the Teams icon pointing to the request conversation:



If you click this Teams icon, you will be redirected to the conversation:

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General

Order requests

Part time requests_

A new request PPA_PARTTIME has been submitted

[See more](#)

Reply

serge Luca Yesterday 17:41

A new request PPA_PARTTIME has been submitted

Req-2021-01-20T17:41:25.2879969
On behalf of: sergeluca@doctorflow1.onmicrosoft.com
Part-time request for sergeluca

[View the request](#)

[See less](#)

Reply

In this conversation, if you click “View the request” the system will display the request details:

Part-time request

Power Platform Associates

From:
10/10/2021

To:
11/12/2022

Percentage:
50%

On behalf of:
sergeluca@doctorflow1.onmicrosoft.com

Submitter:
sergeluca@doctorflow1.onmicrosoft.com

[Save \(draft\)](#) [Submit to approval](#)

Editing request information

One of the questions is: when can the users edit their request? Or who can edit the requests? The officers? Only when the request is in draft mode? When the workflow is started? It depends on the request. We have successfully tested several options to integrate into the BPM Toolkit, but we are currently trying to make it more performant for the next release.

Another topic is how do we manage the attachments? This will also be part of the next release.

Power Platform licenses needed

End users only need standard Office 365 licenses

To deploy, you need a premium license

To create and deploy custom actions, you need premium licenses. The Per-flow license (500\$/month) covers the whole company up to 5 flows

To use RPA, you need a premium license + an RPA license.

The BPM Toolkit is open source and free.

Deeper into approval

So far, you have used the Feedback action expected. This action waits for a feedback from a user (or a member of a role). The user can approve/reject/comment. And the system goes to the next step.

There are other options:

Approval options	
Feedback	If the user accepts, the input will be positive or negative if the user rejects. In both cases, the workflow will move to the next step.
ApprovalStop	If the user approves, the outcome of the workflow is Approved, if the user rejects the outcome of the workflow is Rejected. The workflow stops immediately
Approval	If the user approves, the outcome of the workflow is Approved, if the user rejects the outcome of the workflow is Rejected, but the workflow does not stop immediately; the other steps are completed
ApproveStop	If the user approves, the outcome of the workflow is Approved, if the user rejects the outcome of the workflow is negative. In the first case, the workflow stops immediately

RejectStop	If the user rejects, the outcome of the workflow is Rejected. If the user accept, sthe outcome will be positive. The workflow stops immediately in the first case only
------------	--

In the next example, If a member of TEAM_LONDON Approves the workflow is approved and it stops.

Step ▾	Actor ▾	Type of actor ▾	CaseType ▾	ActionExpected ▾	Goto S
0	TEAM_LONDON		PPA_ORDER	ApproveStop	
1	TEAM_BRUSSELS		PPA_ORDER	Feedback	
2	TEAM_PARIS		PPA_ORDER	Feedback	

You can also define other options regarding the workflow outcome.

In the **BPM Security groups for Case** list, there is a column named **ApprovalPattern**.

If Approval pattern is **Majority**, the workflow outcome will be approved/rejected if the Majority of the feedbacks is positive/negative.

If Approval pattern is **SingleNegative**, the workflow outcome will be rejected if there is one single negative feedback.

The value can remain empty