

# Industry Report App

PowerApp Documentation

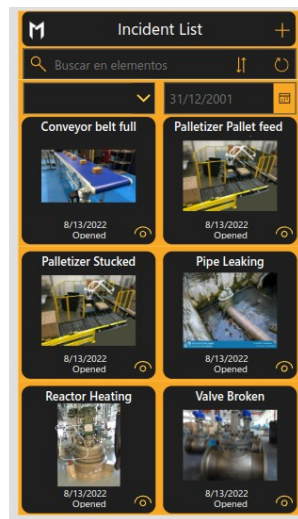
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**Author:** Manuel Portero Leiva

## Introduction

This document has the purpose to explain the different parts of the Industry Report App, its code and functionalities, for understanding and replication purposes. The different parts of the architecture solution are show below.

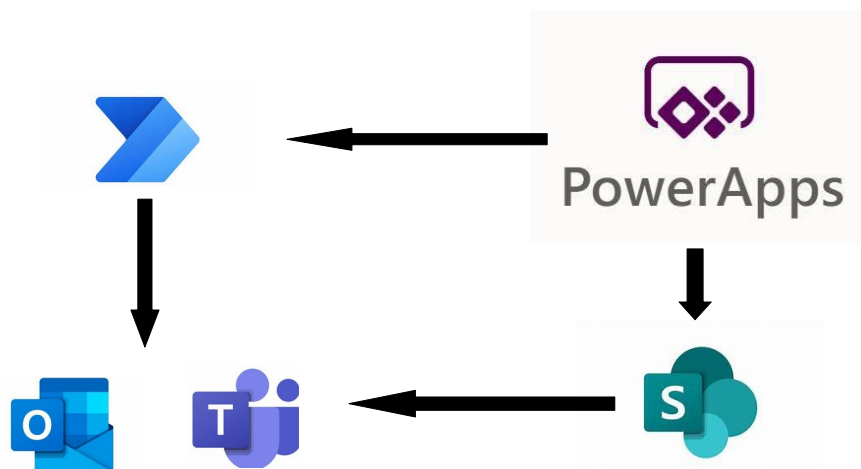


**Picture 1:** Industry Report Main Layout

## Architecture

The composition of the architecture starts in the PowerApp, The incidents with camera and the pen input attachments are added to a sharepoint list and represented again in the main gallery. After adding an incident report a flow is activated for check if the incident is opened after 3 hours, if the incident still opened an email and teams notification is send as advise for assign another engineer to the incident.

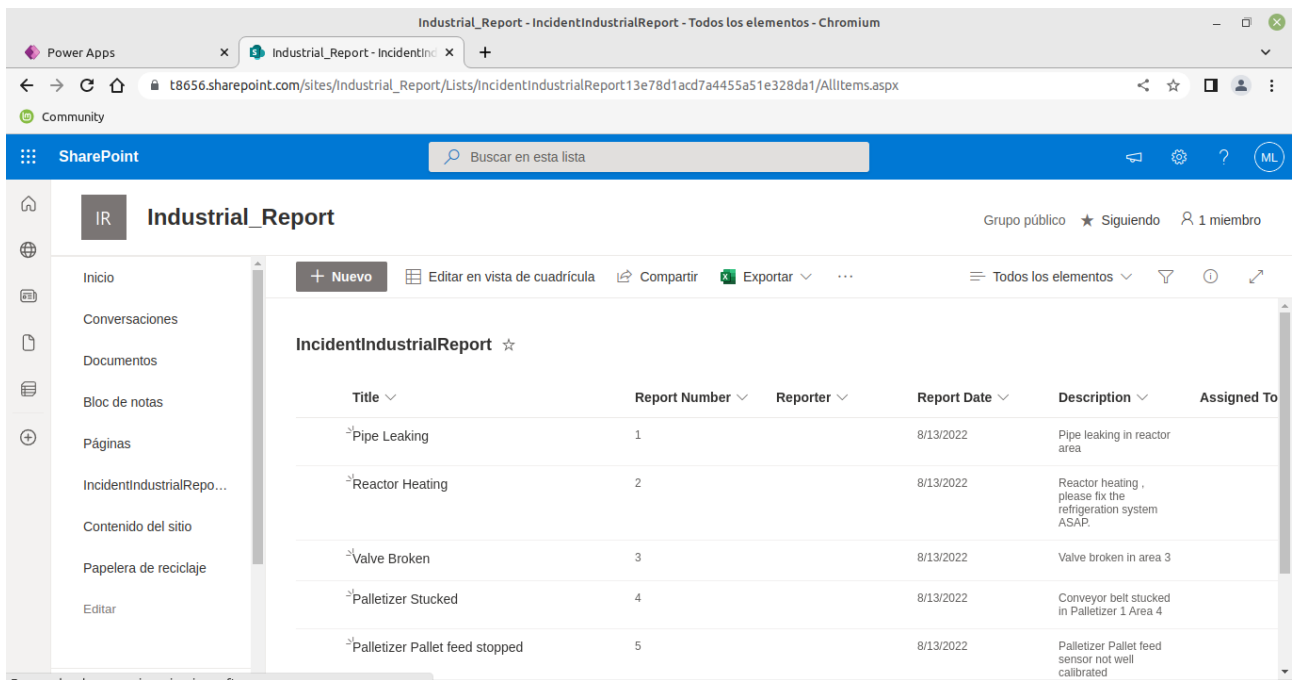
A full diagram of the solution is shown below.



**Picture 2:** Industrial Report solution architecture

## Sharepoint List

The IncidentIndustrialReport app will have a sharepoint list as a Data storage and manipulation, a sample of the list is shown below.



The screenshot shows a web browser window displaying a SharePoint list. The browser's address bar shows the URL: `t8656.sharepoint.com/sites/Industrial_Report/Lists/IncidentIndustrialReport13e78d1acd7a4455a51e328da1/AllItems.aspx`. The SharePoint interface includes a top navigation bar with the 'SharePoint' logo and a search bar. The left sidebar shows the site structure, including 'Inicio', 'Conversaciones', 'Documentos', 'Bloc de notas', 'Páginas', and 'IncidentIndustrialRepo...'. The main content area displays the 'IncidentIndustrialReport' list with the following data:

Title	Report Number	Reporter	Report Date	Description	Assigned To
⚠️Pipe Leaking	1		8/13/2022	Pipe leaking in reactor area	
⚠️Reactor Heating	2		8/13/2022	Reactor heating , please fix the refrigeration system ASAP.	
⚠️Valve Broken	3		8/13/2022	Valve broken in area 3	
⚠️Palletizer Stucked	4		8/13/2022	Conveyor belt stucked in Palletizer 1 Area 4	
⚠️Palletizer Pallet feed stopped	5		8/13/2022	Palletizer Pallet feed sensor not well calibrated	

Picture 3: IncidentIndustrialReport list sample

## Main Screen

The main screen is composed by a Incidents Gallery, a status dropdown, a date picker and a textInput filters. Finally the main screen has an add new incident button and a view incident details button. In each row of the incidents gallery, the title a complete image of the incident ( camera picture and pen input overlaped) , the date of the incident and the status will be shown.

### IncidentsGallery (Items) :

SortByColumns(

Filter(

[@IncidentIndustrialReport];

StartsWith(

Título;

TextSearchBox1.Text

);

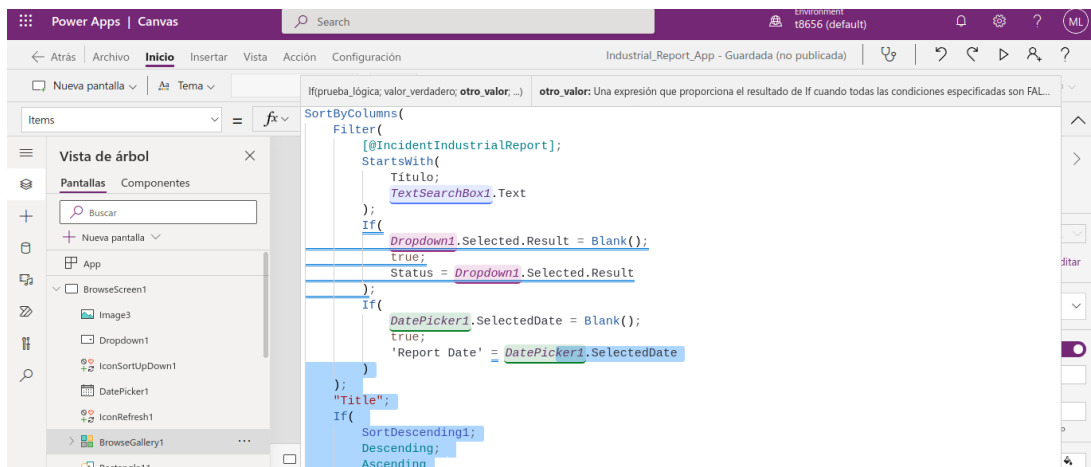
If(

Dropdown1.Selected.Result = Blank();

```

true;
Status = Dropdown1.Selected.Result
);
If(
    DatePicker1.SelectedDate = Blank();
    true;
    'Report Date' = DatePicker1.SelectedDate
)
);
"Title";
If(
    SortDescending1;
    Descending;
    Ascending
)
)
)

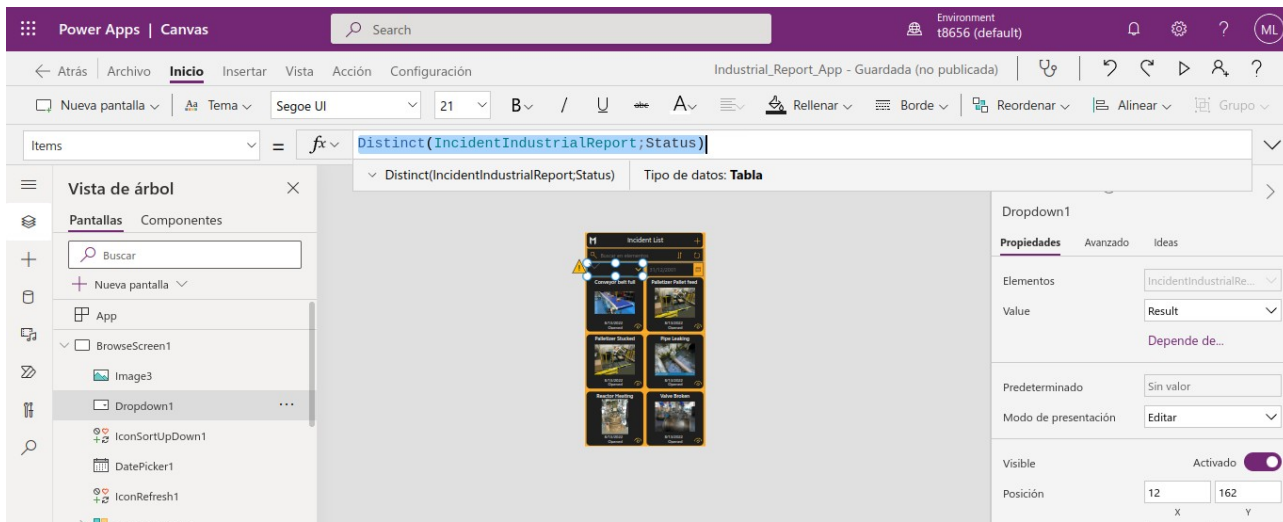
```



**Picture 4:** Incident Gallery Items

**Status Dropdown (Items) :**

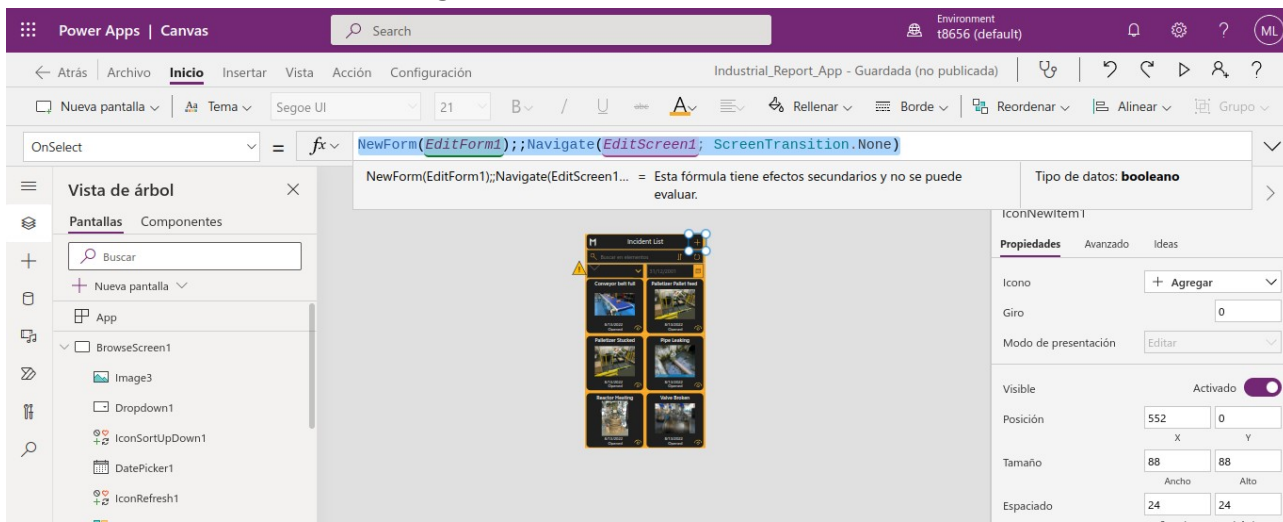
Distinct(IncidentIndustrialReport;Status)



Picture 5: DropdownStatus

**Add Button (OnSelect) :**

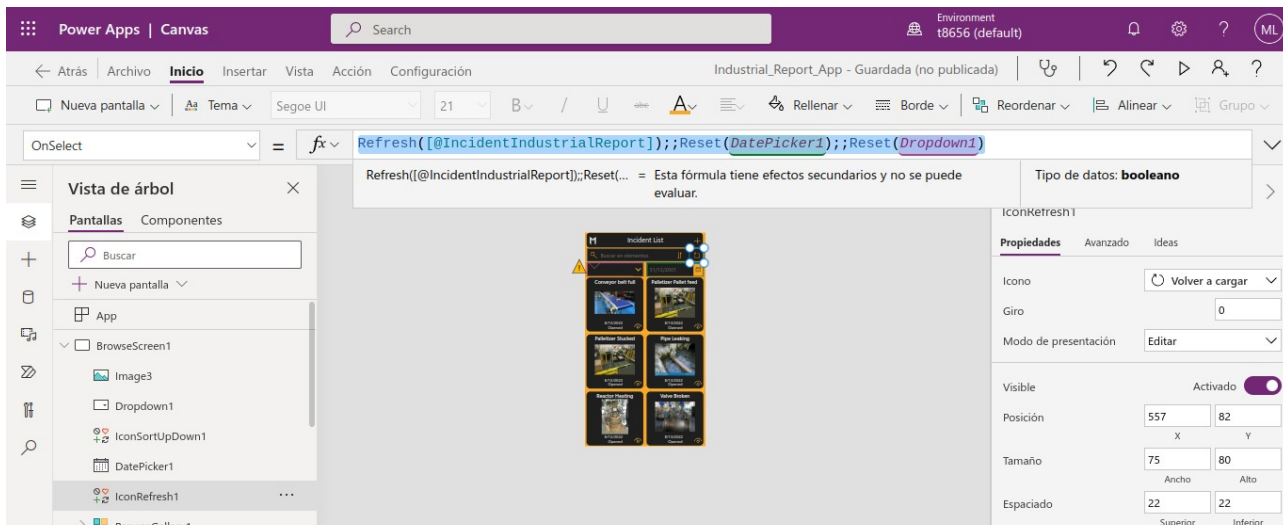
`NewForm(EditForm1);;Navigate(EditScreen1; ScreenTransition.None)`



Picture 5: Add button

## Reload Button (OnSelect) :

Refresh([@IncidentIndustrialReport]);;Reset(DatePicker1);;Reset(Dropdown1)None)



Picture 5: Reload button

## Edit Screen

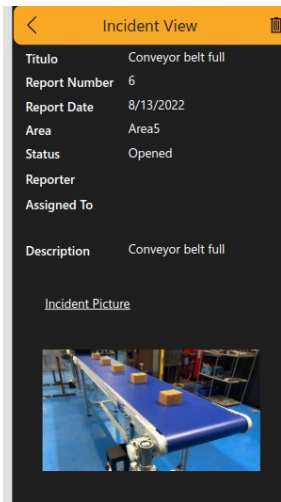
The Edit screen is composed by a EditForm, a create/edit Button (IconAccept), a Reset Form Button (IconCancel) and CameraScreen navigation button. The Attachements Datacard of the form has its default settings changes pointing to the Camera Gallery; doing this change the form will post the jpg files of the camera on each submitform.

The image shows a mobile application screen titled 'Create Incident'. It features a dark-themed form with several input fields and dropdown menus. The fields are labeled: 'Titulo', 'Report Number', 'Report Date', 'Area', 'Status' (with a dropdown menu showing 'Opened'), 'Reporter' (with a dropdown menu showing 'Buscar elementos'), 'Assigned To' (with a dropdown menu showing 'Buscar elementos'), and 'Description' (with a text area). At the top of the form, there are three icons: a camera icon, a checkmark icon, and a close icon.

Picture 6: Edit Screen

## Details Screen

The Details screen is composed by a DetailsForm and a back navigation Button. The Attachements Datacard of the form has its default settings changed pointing to the PenInput and the Camera file stored in the attachment field of the sharepoint list.



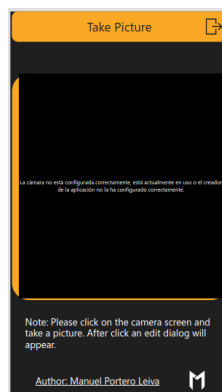
**Picture 6:** Details Screen

The code for remove the item of the details view is the next one :

```
Remove([@IncidentIndustrialReport];IncidentsGallery.Selected);;If(IsEmpty(Errors([@IncidentIndustrialReport];IncidentsGallery.Selected));Back());;Notify("Incident report deleted successfully";Success)
```

## Photo Screen

The photo screen has two parts, the initial part where we can see a camera input with its corresponding layout and a second part of the screen, composed by Gallery with the captured image of the camera and a pen input for noting visual issues on the image, clicking the save button on the bottom of the screen, the user will be redirected to the edit screen and the picture and pen Input files will be generated. Clicking on the Camera item the second part of the screen will be activated (first part will be hidden).



**Picture 6:** Photo Screen

The OnSelect code for store the image in the second part of the screen is this :

```
Set(
    varName;
    GUID()
);;
ClearCollect(
    'Colección 1';
    {
        DisplayName: varName & ".jpg";
        Id: varName & ".jpg";
        Value: Camera1.Photo
    }
);;
Set(
    varCameraMode;
    false
)
```

The Code of the Gallery Items is this one :

Items : 'Colleccion 1'

The default value for the image inside the gallery is this one:

Default : ThisItem.Value

The code of the 'Save' Button that allow to storage the pen input and the image in the SharePoint list is this one :

OnSelect :

```
Set(
    penInput;
    "ImageEdition"
);;
Collect(
    'Colección 1';
    {
        DisplayName: penInput & ".jpg";
        Id: penInput & ".jpg";
```



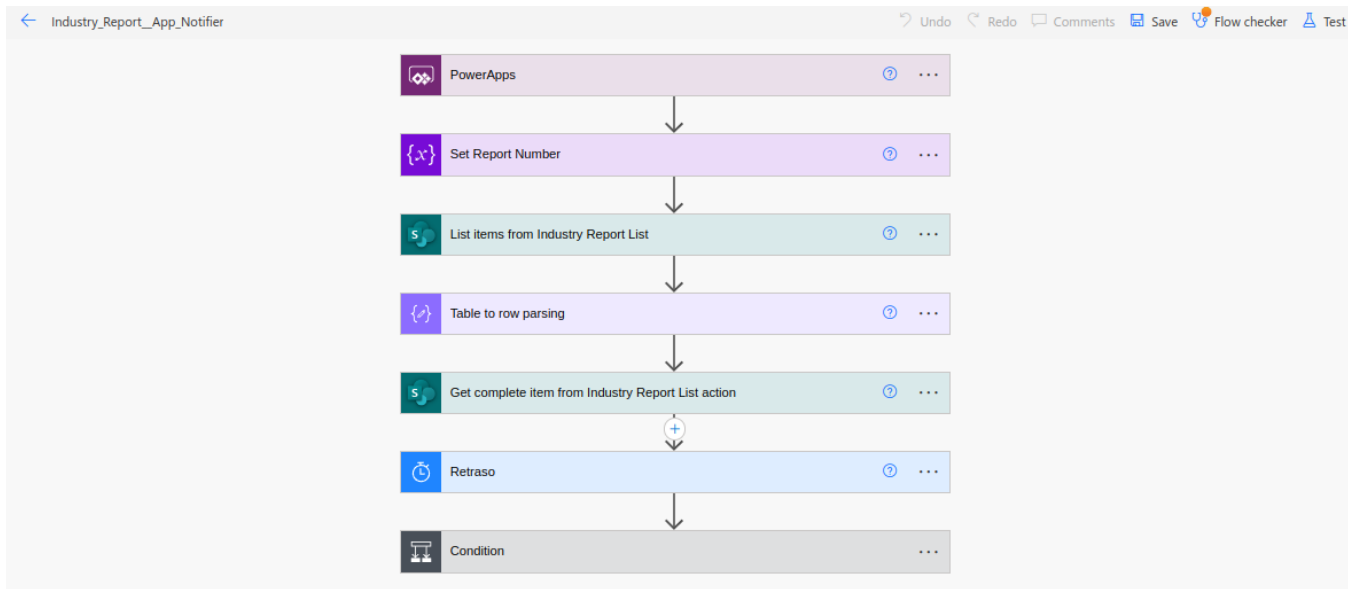
```

        Value: PenInput1.Image
    }
};
Set(
    varCameraMode;
    true
);
Navigate(EditScreen);
Notify(
    "Picture taken and edited succesfully";
    Success
)

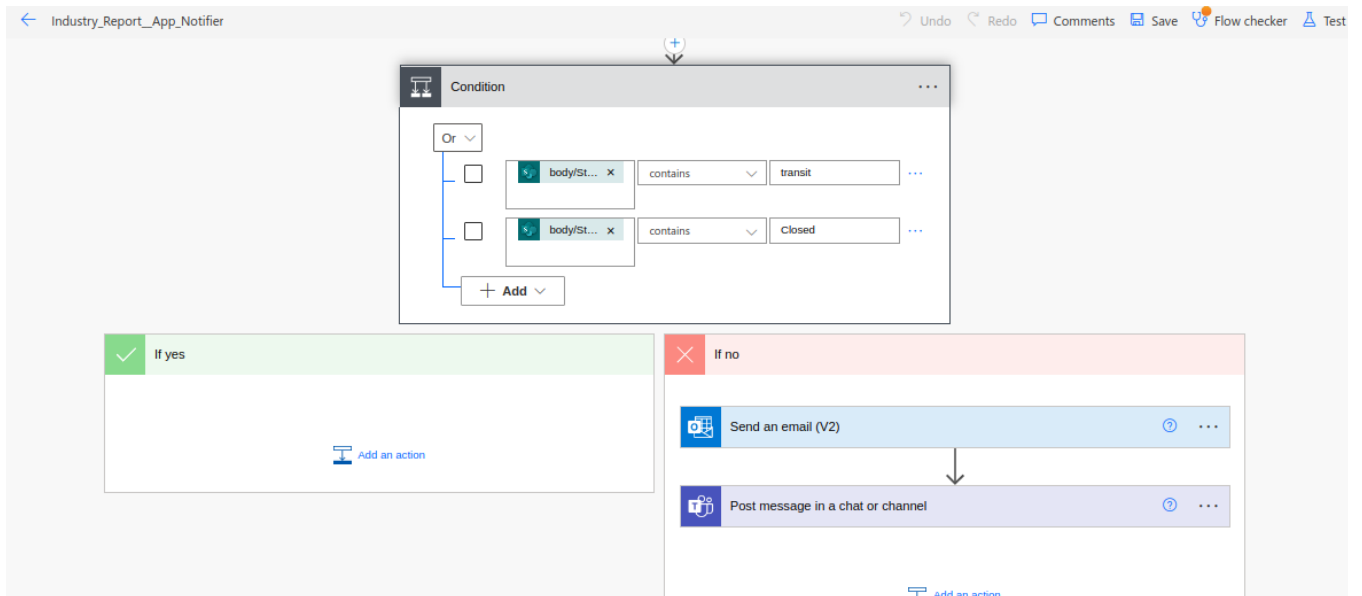
```

## Incident\_Report\_Notifier\_Flow

The incident Report Notifier Flow will check the status of the incident after a delay of 3 hours. If in 3 hours the status field of the sharepoint list still being “Opened” a reminder mail to the manager will be sent for reassigning the ticket to another engineer and a message in the engineers team chat group will be posted.



**Picture 7:** Incident\_Report\_Notifier\_Flow



**Picture 8:** Incident\_Report\_Notifier\_Flow second part