**Deployment Guide for SharePoint**

[Link to OneDrive for all resources including videos and site script](https://liveuclac-my.sharepoint.com/:f:/g/personal/zcabhsh_ucl_ac_uk/EjH-2kch7WNGguVmL280du4B7P7OjAbZ9mmAgWtl3UUttQ?e=pVuxax) and flows.

This guide is split up into five sections:

Section 1:- This section is to setup the SharePoint site and its lists

Section 2:- This section is to setup the necessary flows to the SharePoint site for the additional help form and stress levels form

Section 3:- This section is to setup the QnA Bot and obtain the token necessary for the web application

Section 4:- This section is to setup the QnA flows that connect the knowledgebase of the bot to the SharePoint site

Section 5:- This section is to make sure you have the right flows setup in your flows section.

**Section 1) Setting up the lists within a SharePoint site.**

To setup the SharePoint site to accept data from the forms, you have one of two options. One to setup the site manually (1.1) and two using the script we have provided (1.2). Be warned, to use the script, you must have a windows-based system as it requires a shell.

* 1. If you have decided to setup the site manually, it will not take longer than 5 minutes if you follow the video guide labelled as ‘Setting up SharePoint site manually’ available in the attached OneDrive folder. Make sure you create a Blank Communication site at the start before you begin the video. The notepad I used in the video will be available in the OneDrive folder.
  2. This is an alternate method to the above which uses a site script to deploy the lists.
  3. Firstly, you will need to install the [Sharepoint Management Shell](https://www.microsoft.com/en-us/download/details.aspx?id=35588). Alternatively you can use PowerShell commands to install this too from this link: <https://docs.microsoft.com/en-us/powershell/sharepoint/sharepoint-online/connect-sharepoint-online?view=sharepoint-ps>
  4. Once that is installed, please open the SharePoint Management shell from start and run the following things:
     1. $adminSiteUrl = “<https://organisationaldomain-admin.sharepoint.com>”

Please replace organisationaldomain with whatever your SharePoint system is setup with. For example for a SharePoint site with “https://team29webapp.sharepoint.com/\_layouts/15/sharepoint.aspx” as its address would have an organisational-domain of team29webapp and hence the value of $adminSiteUrl = “<https://team29webapp-admin.sharepoint.com>”

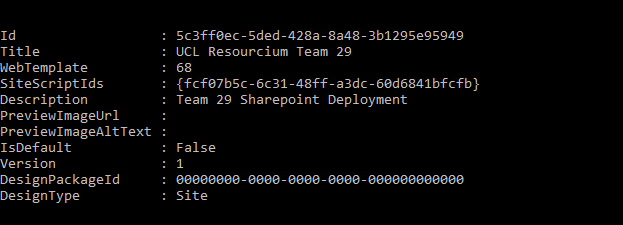
* + 1. Connect-SPOService $adminSiteUrl

This will create a prompt for you to login to the SharePoint system.

* + 1. $siteScriptFile = "C:\Users\hemil\Desktop\sitescript.json"

Within the speech marks, please enter the full path of where you have our systems site script stored. TODO – ADD SITE SCRIPT LINK

* + 1. $webTemplate = "68"
    2. $siteScriptTitle = "UCL Resourcium Team 29"
    3. $siteDesignTitle = " UCL Resourcium Team 29"
    4. $siteDesignDescription = "Team 29 Sharepoint Deployment"
    5. $siteScript = (Get-Content $siteScriptFile -Raw | Add-SPOSiteScript -Title $siteScriptTitle) | Select -First 1 Id
    6. Add-SPOSiteDesign -SiteScripts $siteScript.Id -Title $siteDesignTitle -WebTemplate $webTemplate -Description $siteDesignDescription

Running the above command will produce something like the screenshot below: 

* + 1. After this is done, please keep a note of the Id, as we will need this to delete the site script from the system once the actual site is deployed. To deploy the site please follow the video labelled ‘Setting up SharePoint Site via Site Script’.
    2. Now to ensure no one else can replicate the site run the command below:

Remove-SPOSiteDesign -Identity $siteDesignId

Replace $siteDesignId with the Id of the site script, in my case it is the value in the red box.

In the case where method (1.2) gives an error, contact [hemil.shah.19@ucl.ac.uk](mailto:hemil.shah.19@ucl.ac.uk) otherwise follow method (1.1) to setup the SharePoint site manually.

**Section 2) Setting up the flows and necessary components to connect with SharePoint for forms data.**

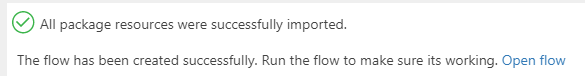
Before you start the following guide, please make sure that you have duplicated the additional help and student blocker forms within your own system. Here is the link to duplicate these forms:

[Student Course Blockers Form](https://forms.office.com/Pages/ShareFormPage.aspx?id=jnDz8R-0wUKyZ6gJDYDz7Ee6R-0qnPpDsQbYeCN2iARUMzRRN002U1dGUUU0OU5GMTNPNko1VFRHQi4u&sharetoken=qznLlgcV42CHf3KnyR2y)

[Student Additional Help Form](https://forms.office.com/Pages/ShareFormPage.aspx?id=jnDz8R-0wUKyZ6gJDYDz7Ee6R-0qnPpDsQbYeCN2iARUOEdGUU1WTUQxVlRMTkpJNVo5Mk02TVhGMC4u&sharetoken=Oj3A2AbH6qqOrUXnZ4Wh)

2.1) First watch the guide on “Setting up flows for Course Blockers and Additional Help”.

Note: In this guide at 1:33 and 5:34 I received an error for importing the flows. If no error is present when importing the flow for you, you will instead need to click "Open flow" instead as shown below:



The remainder steps of the video will still apply, except for the connections setup that are shown in the video. For example, SharePoint sites and lists will still need to be selected in the flow.

Additionally check “Test Note” further below in case you had issues with testing.

2.2) Next follow the guide on “Setting up PowerBi connection” to automate data to PowerBi so reports and analytics can be setup. Again, make sure you follow the naming conventions for the streaming dataset as shown in the video otherwise the flows will make errors:

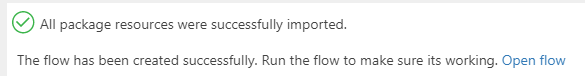
Course Code -> String

Stress Level -> Number

Course Blockers -> String

Timestamp -> DateTime

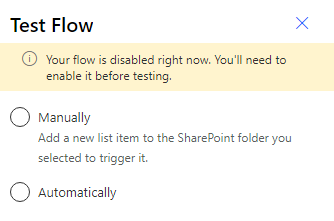
Note: In this guide at 1:54 I received an error for importing the flow. If no error is present when importing the flow for you, you will instead need to click "Open flow" instead as shown below:



The remainder steps of the video will still apply, except for the connections setup that are shown in the video.

Test Note:

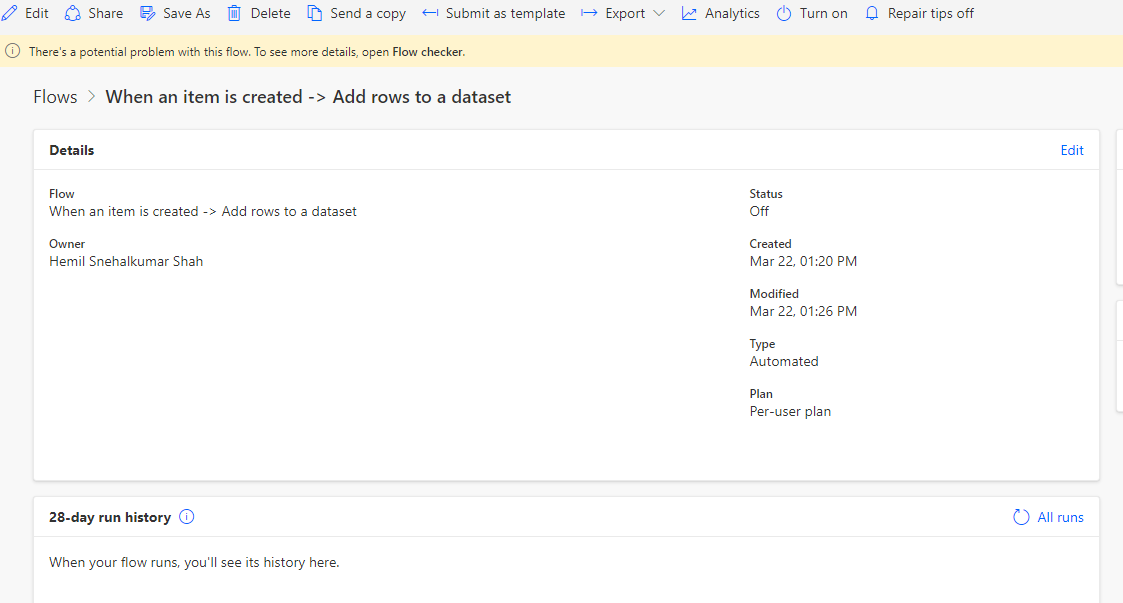
Note: When you click “Test” to test the flow and you see the screen below instead of what the video showed:



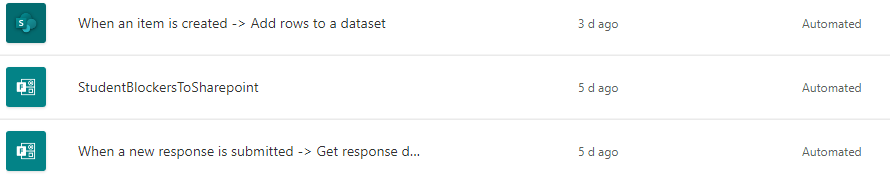
This has happened because the flow is disabled. To make sure the flow is turned on:

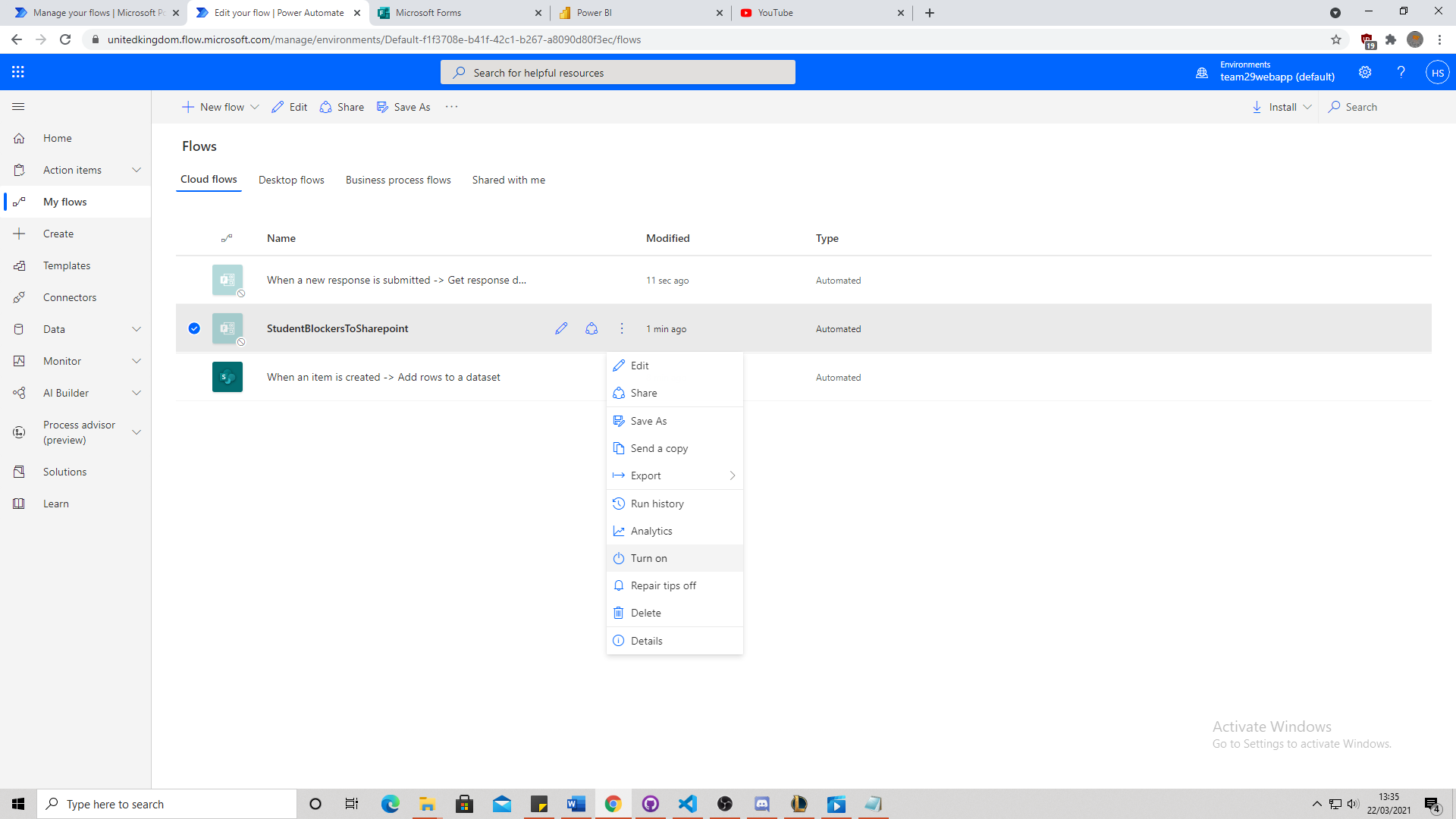
Click this back button

Click on the turn on button to activate the flow then click on edit to go back to testing the flow.



If you followed the above guide correctly then within your Microsoft Flows page you should see the following three flows:



Note: If any of them are greyed out, you will need to turn them on as shown below, if you followed the earlier guide properly, this should not be the case however: 

2.3) Next follow the guide on “Creating a basic report in PowerBi and connecting it to SharePoint dashboard”.

Example URL for the PowerBi Report to embed into SharePoint: <https://app.powerbi.com/reportEmbed?reportId=7f1a9807-b1f6-4539-8ffe-55f41fdc6c38>

**Section 3) Setting up the QnA Bot and obtaining the token**

3.1) To obtain your QnA Bot token please follow the video guide labelled as ‘Setting up QnA Bot and Obtain Token’

**Section 4) Setting up the flows for the QnA Bot to SharePoint**

4.1) Watch the guide labelled as ‘Setting up flows for QnA Bot’ and follow its steps.

**Section 5) Final Check**

After setting up all above flows, the SharePoint side of the application has been setup. You should see the following 5 flows in your My Flows section for this app:

