

Upload documents to SharePoint Library from PowerApps using Graph API

Overview:

The project involved developing a solution using PowerApps application with SharePoint using Graph API. This project enable saving document from PowerApps to SharePoint without using Microsoft flow..

Technologies:

SharePoint, PowerApps (Canvas Apps), Microsoft Graph Explorer

Project Description:

The Canvas app is designed to streamline the process of uploading document to library. The app is built using Power Apps, Graph Explorer and leverages features like Data Card, buttons, to provide a user-friendly and efficient experience for uploading documents.

What is API?

API stands for Application Programming Interface,

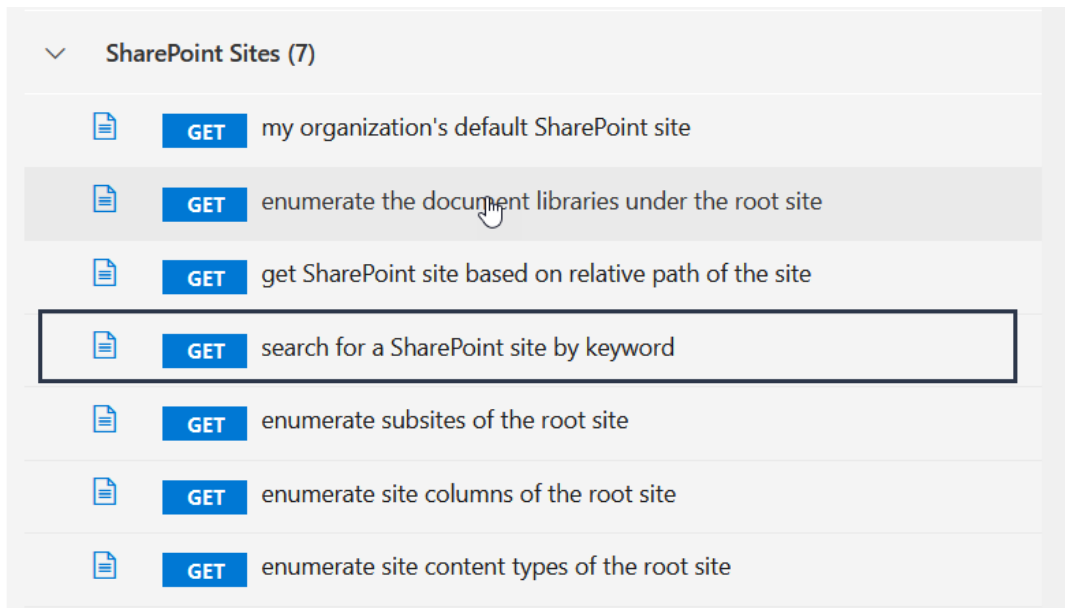
Ex-> We have a website, google already have weather data with them, so if we want to use google weather data, we will use google weather API in our website.

In API we have GET, POST, PUT, PATCH and DELETE query options.

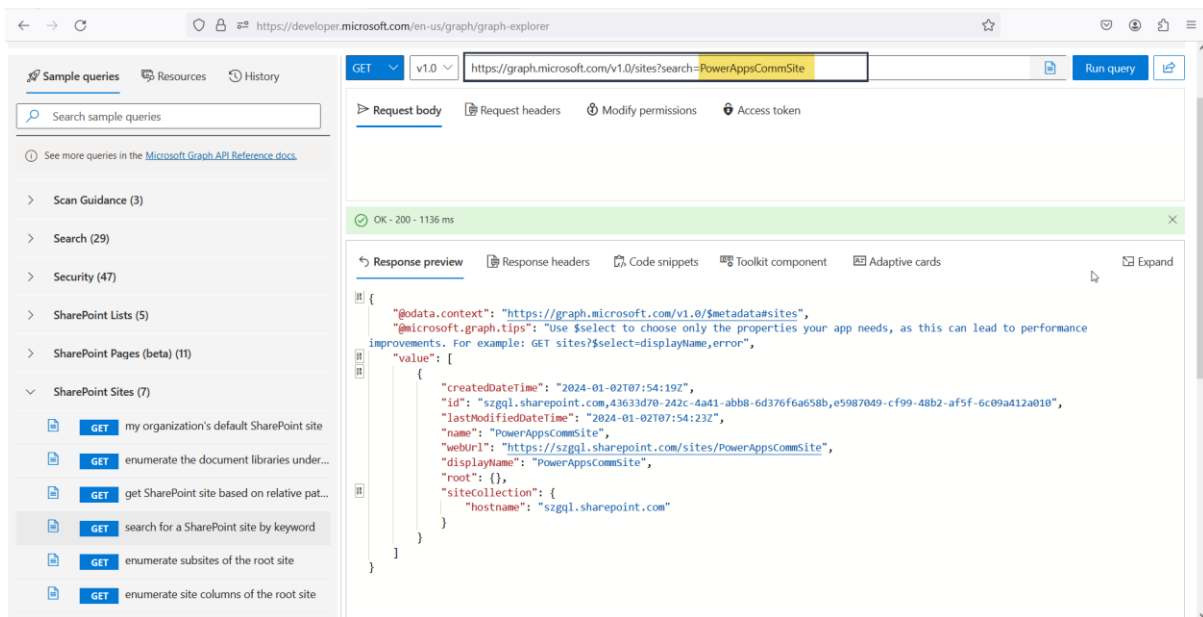
- GET -> use for getting data from the particular link.
- POST -> use for adding a new data to the particular link.
- PUT -> use for updating data to the particular link.
- PATCH -> use for updating data to a particular link.
- DELETE -> use for deleting data from particular link.

Steps to build Canvas App which use Graph explorer to upload documents to SharePoint library

- Sign In to PowerApps.
- Create a blank canvas app.
- Go to browser new tab, search for Graph Explorer and select Microsoft Graph Explorer.
- Login Graph with credentials.
- To get SharePoint site information in graph explorer we need to choose Get select search for a SharePoint site by keyword in the left navigation.



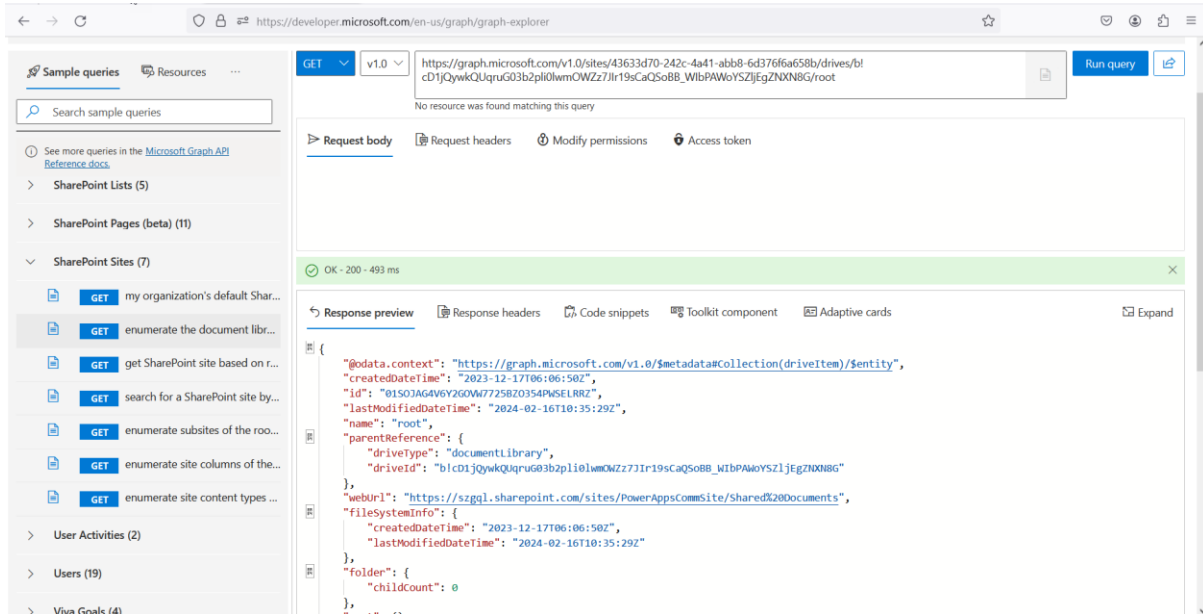
- After search URL in graph explorer, after search we need to write our site name, then run the query.



Note- If you get error for consent then just go to modify permissions and allow consent.

- You will get details of the site on response preview, just copy the ID of the site and keep in notepad.
- Choose “enumerate the document library under the root site” in the left navigation panel. And click on RunQuery.
- In web URL it will show like “<https://szgql.sharepoint.com/sites/Shared%20Documents>” . But it will not show site name, to fix this in query URL “<https://graph.microsoft.com/v1.0/sites/root/drives>”. Instead of root we need to provide Id of the site which we kept in our notepad.

- Now if you run the query, you will get site name in Web URL.
- Now you have your root folder ID in response preview just copy that and store in notepad.
- To go into particular drive, we need to paste that copied ID after “drives/”.
- To make this library as a root we need to put “/root” after Id in query URL.
- Now you can see drive type is document library, name is root.

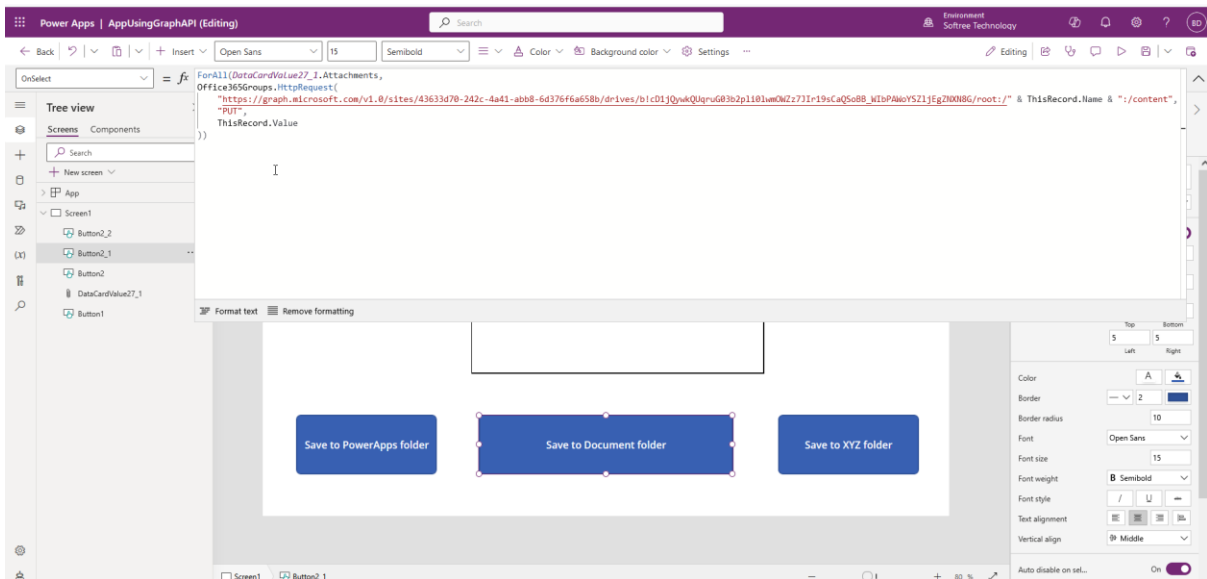


- Copy the entire query URL and store it on notepad.
- Go to PowerApps
- Connect the SharePoint list as data source.
- Insert an edit form form and add any data source.
- Once you select any list you will get attachment control. Copy the card and paste it outside the form, then delete the form.
- Where ever you seeing the errors just delete it.
- Resize the attachment control, add header and buttons to the screen.
- Rename the buttons as (i) Save to PowerApps folder. (ii) save to document folder. (iii) save to XYZ folder.
- Go to graph explorer site. You can see URL as “https://graph.microsoft.com/v1.0/siteID/drives/libraryID.
- Append root:/filename/content to the URL, we have to use this schema.

To Execute Graph API in your PowerApps

- Add Office365 group connector.
- In on select of save to document library button write
`Office365Groups.HttpRequest("https://graph.microsoft.com/v1.0/sites/43633d70-242c-4a41-abb8-6d376fa658b/drives/b!cD1jQywkQUqruG03b2pli0lwmOWZz7Jlr19sCaQSoBB_WlBPAWoYSZjEgZNXN8G/root:/"&Last(DataCardValue27_1.Attachments).Name &":/content", "PUT", Last(DataCardValue27_1.Attachments).Value)`







- To update multiple attachment file into the SharePoint library, we have to use ForAll function in canvas app.
- ForAll(DataCardValue27_1.Attachments, Office365Groups.HttpRequest("https://graph.microsoft.com/v1.0/sites/43633d70-242c-4a41-abb8-6d376f6a658b/drives/b!cD1jQywkQUqruG03b2pli0lwmOWZz7JIr19sCaQSoBB_WIbPAWoYSZljEgZNXN8G/root:/" & ThisRecord.Name & ":/content", "PUT", ThisRecord.Value))



- If you want to save files to a particular folder then in query URL of graph explorer after root please write "://" then child folder name. and run the query, you will get the details of the child folder.
- In the Save to PowerApps folder button's on Select property provide ForAll(DataCardValue27_1.Attachments, Office365Groups.HttpRequest("https://graph.microsoft.com/v1.0/sites/43633d70-242c-4a41-abb8-6d376f6a658b/drives/b!cD1jQywkQUqruG03b2pli0lwmOWZz7JIr19sCaQSoBB_WIbPAWoYSZljEgZNXN8G/root:/PowerApps" & ThisRecord.Name & ":/content", "PUT", ThisRecord.Value))
- While clicking on the Save to PowerApps folder button all the files will save to Power Apps folder.

Upload files from PowerApps to SharePoint list with GraphAPI



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Save to PowerApps folder

Save to Document folder

Save to XYZ folder

This project is successfully done by using the above-mentioned technology and it is working as per expectation.