**MICROSOFT GRAPH API**

**import msal**

**import requests**

**from os import getenv, path**

**from base64 import b64encode**

**"""This func can send an email as (from) any user in dh.**

**Import this file 'from micrsoft\_graph import send\_mail' and use functing with the following params to use it.**

**send\_email(msg\_to\_address, msg\_from\_address, msg\_subject, msg\_body, attachments)**

**Attachments are just a path to the file you want t prepare\_attachment() func will do the needful.o attach, the**

**Requires the following environment variables to be configured for authentication to the Graph API.**

**client\_id = getenv('AAD\_APP\_ID')**

**client\_secret = getenv('AAD\_APP\_SECRET')**

**tenant\_id = getenv('AAD\_TENANT\_ID')**

**"""**

**def prepare\_attachment(file\_path):**

**if not path.exists(file\_path):**

**print('file is not found')**

**return**

**with open(file\_path, 'rb') as upload:**

**media\_content = b64encode(upload.read())**

**data\_body = {**

**'@odata.type': '#microsoft.graph.fileAttachment',**

**'contentBytes': media\_content.decode('utf-8'),**

**'name': path.basename(file\_path)**

**}**

**return data\_body**

**def send\_email(msg\_to\_address, msg\_from\_address, msg\_subject, msg\_body, attachments):**

**client\_id = getenv('AAD\_APP\_ID')**

**client\_secret = getenv('AAD\_APP\_SECRET')**

**tenant\_id = getenv('AAD\_TENANT\_ID')**

**authority = f"https://login.microsoftonline.com/{tenant\_id}"**

**app = msal.ConfidentialClientApplication(**

**client\_id=client\_id,**

**client\_credential=client\_secret,**

**authority=authority)**

**scopes = ["https://graph.microsoft.com/.default"]**

**result = None**

**result = app.acquire\_token\_silent(scopes, account=None)**

**if not result:**

**print(**

**"No suitable token exists in cache. Let's get a new one from Azure Active Directory.")**

**result = app.acquire\_token\_for\_client(scopes=scopes)**

**if "access\_token" in result:**

**endpoint = f'https://graph.microsoft.com/v1.0/users/{msg\_from\_address}/sendMail'**

**email\_msg = {**

**'Message':**

**{ 'Subject': msg\_subject,**

**'Body': {**

**'ContentType': 'HTML',**

**'Content': msg\_body**

**},**

**'ToRecipients': [**

**{'EmailAddress':**

**{**

**'Address': msg\_to\_address**

**}**

**}**

**]**

**},**

**'SaveToSentItems': 'true',**

**}**

**if len(attachments) > 0:**

**email\_msg['Message']['attachments'] = []**

**for file in attachments:**

**file\_encoded = prepare\_attachment(file)**

**email\_msg['Message']['attachments'].append(file\_encoded)**

**r = requests.post(endpoint,**

**headers={'Authorization': 'Bearer ' + result['access\_token']}, json=email\_msg)**

**if r.ok:**

**print('Sent email successfully')**

**return r.ok**

**else:**

**print(r.json())**

**return False**

**else:**

**# print(result.get("error"))**

**# print(result.get("error\_description"))**

**# print(result.get("correlation\_id"))**

**raise ValueError(f'Error obtaining authentication token\n{str(result)}')**