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1 from pydrive.auth import GoogleAuth
2 from pydrive.drive import GoogleDrive as PyDriveGoogleDrive
3 #from tkinter import Tk
4 #from tkinter.filedialog import askopenfilename
5 from tkinter.filedialog import asksaveasfile
6 #from threadsafe_tkinter import *
7 from easygui import fileopenbox
8 from easygui import filesavebox
9 import ntpath
10 from Crypto.Cipher import AES
11 from app.models import Group
12 import os
13
14 class GoogleDrive():
15     gauth = None
16     drive = None
17
18     def __init__(self):
19         self.gauth = GoogleAuth()
20         self.gauth.LoadCredentialsFile("mycreds.txt")
21         if self.gauth.credentials is None:
22             # Authenticate if they're not there
23             self.gauth.LocalWebserverAuth()
24         elif self.gauth.access_token_expired:
25             # Refresh them if expired
26             self.gauth.Refresh()
27         else:
28             # Initialize the saved creds
29             self.gauth.Authorize()
30             # Save the current credentials to a file
31             self.gauth.SaveCredentialsFile("mycreds.txt")
32
33         self.drive = PyDriveGoogleDrive(self.gauth)
34
35     def getFiles(self):
36         return self.drive.ListFile({'q': "'1a_ZOqi75h6nTvsUEPDi8NGUrb9Tk-dkh' in parents and
trashed=false'}).GetList()
37
38     def getFilesInFolder(self, folder):
39         return self.drive.ListFile({'q': "'" + folder + "' in parents and
trashed=false'}).GetList()
40
41     def uploadFile(self, folder, groupId):
42         #Tk().withdraw() # we don't want a full GUI, so keep the root window from appearing
43         filepath = fileopenbox() # show an "Open" dialog box and return the path to the selected
file
44         file = self.drive.CreateFile({'title': ntpath.basename(filepath), 'parents': [{'kind':
'drive#fileLink', 'id': folder}]})
45         f = open(filepath, 'rb')
46         self.encrypt(groupId, f.read())
47         file.SetContentFile('encrypted.bin')
48         file.Upload()
49         #if os.path.exists('encrypted.bin'):
50         #     os.remove('encrypted.bin')
51
52     def downloadFile(self, id, title, groupId):
53         file = self.drive.CreateFile({'id': id})
54         file.GetContentFile('title')
55         file.GetContentFile('encrypted.bin')
56         #Tk().withdraw()
57         destination = filesavebox()
58         if destination is None:
59             return

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60     self.decrypt(groupId, destination)
61     #file.GetContentFile(destination)
62
63     def createGroup(self, title):
64         folder = self.drive.CreateFile({'title': title, 'mimeType' : 'application/vnd.google-
apps.folder', 'parents': [{'kind': 'drive#fileLink', 'id': '1a_ZOqi75h6nTvsUEPDi8NGUrb9Tk-
dkh'}]})
65         folder.Upload()
66         return folder['id']
67
68     def encrypt(self, groupId, data):
69         key = Group.objects.get(id=groupId).key
70         cipher = AES.new(key, AES.MODE_EAX)
71         ciphertext, tag = cipher.encrypt_and_digest(data)
72         file_out = open("encrypted.bin", "wb")
73         [ file_out.write(x) for x in (cipher.nonce, tag, ciphertext) ]
74
75     def decrypt(self, groupId, destination):
76         key = Group.objects.get(id=groupId).key
77         file_in = open("encrypted.bin", "rb")
78         nonce, tag, ciphertext = [ file_in.read(x) for x in (16, 16, -1) ]
79         cipher = AES.new(key, AES.MODE_EAX, nonce)
80         data = cipher.decrypt_and_verify(ciphertext, tag)
81         typeofdata = type(data)
82         file_out = open(destination, "wb")
83         file_out.write(data)
84
85     def fucksake(self):
86         with open('E:\\TEST1.PNG', 'rb') as f1:
87             with open('E:\\uggggggh.png', 'wb') as f2:
88                 f2.write(f1.read())
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