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#!/usr/bin/env python
"""
importDmsMailsPy3.py

Check emails at :const:`PROVIDER` for attachments and save them to
:const:`SAVEDIR`.
"""

import os
from imbox import Imbox #pip3 install imbox
import traceback

PROVIDER = 'XXXX'
USER = 'XXXX'
PASSWORD = 'XXXX'

SAVE_DIR = '/opt/ecodms/workdir/scaninput/'

def getNotExistingFileName(saveDir, srcFileName):
    counter = 1
    if (srcFileName.endswith("pdf?=")):
        srcFileName = "scanbymail.pdf"
    while (True):
        currentName = srcFileName
        if (counter > 1):
            currentName = str(counter) + "_" + srcFileName
        if (os.path.isfile(saveDir + currentName)):
            counter = counter + 1
        else:
            return currentName

def save_attachment(attachment):
    attachmentFileName = attachment.get('filename')
    print('Handle Attachment {0!r}'.format(attachmentFileName))
    if attachmentFileName.endswith(("pdf", "PDF", "Pdf", "PDf", "pDF", "pdF",
    "PdF", "pdf?=")):
        targetName = attachmentFileName.replace("/", "_")
        targetName = getNotExistingFileName(SAVE_DIR, targetName)
        download_path = f"{SAVE_DIR}/{targetName}"
        with open(download_path, "wb") as download:
            download.write(attachment.get('content').read())
        print('Found and saved attachment {0!r}'.format(targetName))

def main():
    try:
        mailBox = Imbox (PROVIDER, username=USER, password=PASSWORD, ssl=True,
ssl_context=None, starttls=False)
        mailBoxContent = mailBox.messages()

        for (mailId, mail) in mailBoxContent:
            mailBox.mark_seen(mailId)

            for idx, attachment in enumerate(mail.attachments):
                try:
                    save_attachment(attachment)

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        except:
            print(traceback.print_exc())

        mailBox.delete(mailId)
    finally:
        mailBox.logout()

if __name__ == '__main__':
    main()
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