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import base64
import datetime
import hashlib
import hmac
import requests
import os
import json

# Source 签名水印值, 可填写任意值
# 密钥对的 SecretId
# 密钥对的 SecretKey
def getSimpleSign(Source='{random string}',
                 SecretId='{SecretId}',
                 SecretKey='{SecretKey}'):
    GMT_FORMAT = '%a, %d %b %Y %H:%M:%S GMT'
    dateTime = datetime.datetime.utcnow().strftime(GMT_FORMAT)
    auth = "hmac id=\"\" + SecretId + "\", algorithm=\"hmac-sha1\",
headers=\"date source\", signature=\"\"
    signStr = "date: " + dateTime + "\n" + "source: " + Source
    sign = hmac.new(SecretKey.encode(), signStr.encode(), hashlib.sha1).digest()
    sign = base64.b64encode(sign).decode()
    sign = auth + sign + "\"\"
    return sign, dateTime, Source

def denoise():
    # =====数据流方式=====
    # domain使用云市场提供的域名
    url = "http://{domain}/v1/alg/denoise"

    # 读取本地文件, 请自行修改为自身系统文件
    filePath = "{file path}"

    file = open(filePath, "rb")
    # 获取文件大小
    fileSize = os.path.getsize(filePath)

    # 腾讯云签名过程
    sign, dateTime, Source = getSimpleSign()

    headers = {
        'Content-Type': 'audio/wave',
        'Authorization': sign,
        'Date': dateTime,
        'Source': Source,
        'File-length': str(fileSize),
    }

    response = requests.request("POST", url, headers=headers, data=file)

    print(response.headers)
    print(response.text)

# =====URL方式=====

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# domain使用云市场提供的域名
# url = "http://{domain}/v1/algo/denoise"
# # 文件下载地址
# payload = json.dumps({
#     "file_url": "{file url}"
# })
#
# # 腾讯云签名过程
# sign, dateTime, Source = getSimpleSign()
#
# headers = {
#     'Content-Type': 'application/json',
#     'Authorization': sign,
#     'Date': dateTime,
#     'Source': Source,
# }
#
# response = requests.request("POST", url, headers=headers, data=payload)
# print(response.headers)
# print(response.text)
```