座位表 -請同學填入 自己名字(有看到的提醒隔壁的同學 填寫 感謝!!

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| --- | --- | --- | --- | --- | --- |
| **白板** | | | | | |
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# 

1207目標

1.登入google帳號

2.建立專案

3.cloud storage 快速複習

步驟

google cloud platform 控制台 新增專案

identity → service account → create account → Name → Role = Cloud storage & Storage Admin →

In GCP 內的範例程式碼

# 我要用python 去瀏覽桶子內有什麼檔案

# python cloud storage list all object in bucket

from google.cloud import storage

"""Lists all the blobs in the bucket."""

bucket\_name = "ai-cxcxc-demo"

storage\_client = storage.Client()

# Note: Client.list\_blobs requires at least package version 1.17.0.

blobs = storage\_client.list\_blobs(bucket\_name)

for blob in blobs:

print(blob.name)

------------------

# 我要用python 去瀏覽桶子內有什麼檔案

# python cloud storage list all object in bucket

from google.cloud import storage

"""Lists all the blobs in the bucket."""

bucket\_name = "ai-cxcxc-demo"

storage\_client = storage.Client.from\_service\_account\_json('service\_account.json')

# Note: Client.list\_blobs requires at least package version 1.17.0.

blobs = storage\_client.list\_blobs(bucket\_name)

for blob in blobs:

print(blob.name)

---

<https://github.com/BingHongLi/ai-chatbot-tutorial>

017

<https://github.com/BingHongLi/ai-chatbot-tutorial/blob/main/017_%E8%8D%8A%E7%84%A1%E5%91%BD%E7%9A%84%E5%B7%A6%E6%89%8B%E5%8A%8D.ipynb>

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'''

跟cloud storage作互動

先建個客戶端

用客戶端去

上傳物件

瀏覽物件

下載物件

刪除物件

'''

# step1 建立客戶端

# gcp cloud storage client python example

# 017就有了啦

from google.cloud import storage

# 創建客戶端，由於在專案外，必須給一個service\_account.json檔

storage\_client = storage.Client.from\_service\_account\_json('service\_account.json')

# 用cloud storage的客戶端上傳物件

# python cloud storage upload object example

# 017就有了啦

# 上傳到指定的桶子內

# https://cloud.google.com/storage/docs/uploading-objects#storage-upload-object-code-sample

bucket\_name='ai-cxcxc-demo'

source\_file\_name= '13080001127357.jpg'

# object的名子

destination\_blob\_name= '123/456.jpg'

# 指定桶子

bucket = storage\_client.bucket(bucket\_name)

# 指定本地檔案

blob = bucket.blob(destination\_blob\_name)

# 指定遠端位置

blob.upload\_from\_filename(source\_file\_name)

print(

"File {} uploaded to {}.".format(

source\_file\_name, destination\_blob\_name

)

)

-----

物件的權限調整

調整公開之後，物件都會有一個https連結

<https://storage.googleapis.com/ai-cxcxc-demo/123/456.jpg>

<https://storage.googleapis.com/> + bucket\_name + object\_name

---

刪除物件

----

機器人與cloud storage 的結合

<https://github.com/BingHongLi/ai-chatbot-tutorial/blob/main/018_GCP%E8%88%87Chatbot.ipynb>

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gcp 調度ai的範例

[*https://colab.research.google.com/github/robeartoe/APIWorkshop/blob/master/MLWorkshop.ipynb#scrollTo=Snq8ehAu7JkD*](https://colab.research.google.com/github/robeartoe/APIWorkshop/blob/master/MLWorkshop.ipynb#scrollTo=Snq8ehAu7JkD)

*# 安裝之後，點擊重新執行階段*

*!pip install google-cloud-texttospeech*

from google.cloud import texttospeech

# Instantiates a client

client = texttospeech.TextToSpeechClient.from\_service\_account\_json('service\_account.json')

# Set the text input to be synthesized

synthesis\_input = texttospeech.SynthesisInput(text="班代，每次都拍你，你是不是很開心？")

# Build the voice request, select the language code ("en-US") and the ssml

# voice gender ("neutral")

voice = texttospeech.VoiceSelectionParams(

language\_code='zh-TW',

ssml\_gender=texttospeech.SsmlVoiceGender.NEUTRAL)

# Select the type of audio file you want returned

audio\_config = texttospeech.AudioConfig(

audio\_encoding=texttospeech.AudioEncoding.LINEAR16)

# Perform the text-to-speech request on the text input with the selected

# voice parameters and audio file type

response = client.synthesize\_speech(input=synthesis\_input, voice=voice, audio\_config=audio\_config)

# The response's audio\_content is binary.

with open('output.wav', 'wb') as out:

# Write the response to the output file.

out.write(response.audio\_content)

print('Audio content written to file "output.wav"')

json轉換消息範例

https://github.com/BingHongLi/line\_chatbot\_quick\_template/blob/master/app.py

