

LINE CHATBOT

1



今天上課會使用到的工具



Messaging API

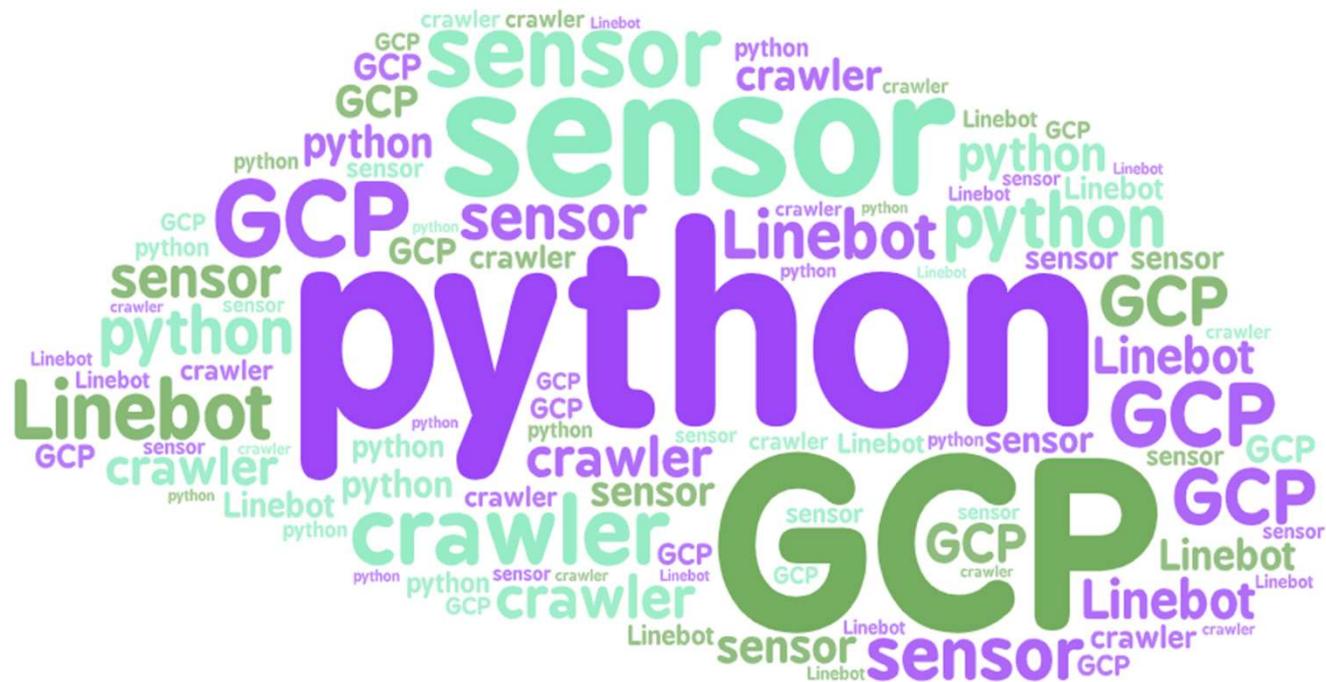
Use Messaging API and connect to users around the world!



Google
App Engine



GOOGLE大神很好用！



課程重點：

Part 1: WEB CRAWLER

Part 2: LINE DEVELOPERS

Part 3: GOOGLE APP ENGINE

Part 4: Rich menu of LINE Chatbot

5

PART1: WEB CRAWLER





<https://ci.taiwan.gov.tw/dsp/>



		地震儀		95站	有感地震事件發生後	回首頁 2017年1月	網站導覽 2013年3月	EN	訂閱我們 API網址	下載
防救災	消防署	地圖式瀏覽	資料目錄	47項	API說明 不定期	關於平台	N/A	M/N/A	民生公共物聯網	下載
		災情通報	41項	應變中心開設後	2015年	NA	NA	NA	API網址	下載
水利署		河川水位站	267站	10分鐘	2012年1月	API網址	API網址	API網址	API網址	API網址
		雨量感測器	9站	10分鐘	2019年~迄今	API網址	API網址	API網址	API網址	API網址
		非連續性淹水感測器	78站	10分鐘	2018年~迄今	API網址	API網址	API網址	API網址	API網址
		淹水感測器	336站	10分鐘	2018年~迄今	API網址	API網址	API網址	API網址	API網址
		堤防結構安全測站	31站	10分鐘	2018年~迄今	API網址	API網址	API網址	API網址	API網址
		閘門	37站	10分鐘	2019年~迄今	API網址	API網址	API網址	API網址	API網址
		水利防災用影像	284站	即時	NA	API網址	NA	API網址	API網址	API網址
		雨量感測器	90站	10分鐘	2012年1月	API網址	API網址	API網址	API網址	API網址

8

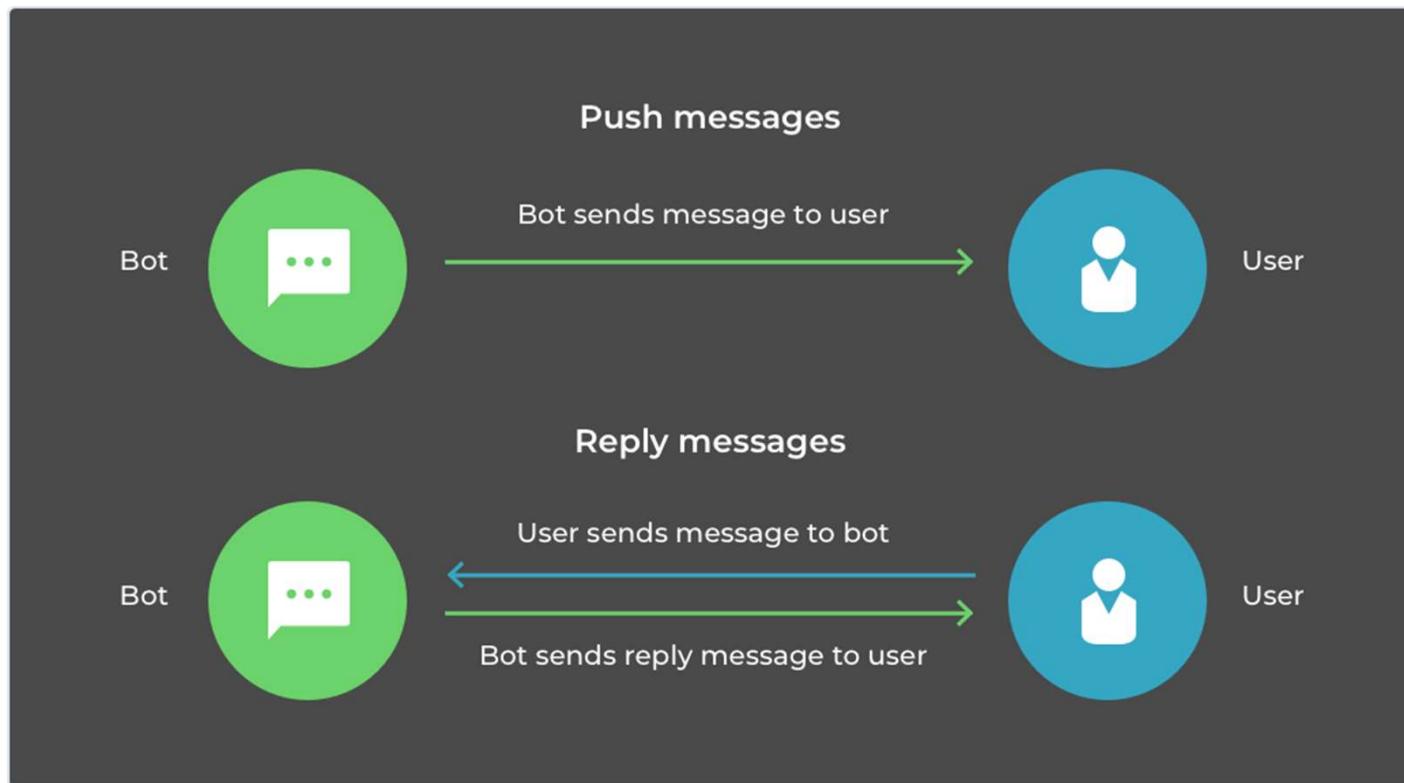
PART2: LINE DEVELOPERS



LINE Developers

What is the Messaging API?

The Messaging API lets you develop two-way communication between your service and LINE users.



<https://developers.line.biz/en/services/messaging-api/>

■Line開發者帳號申請與設定



返回服務

LINE Business ID

使用LINE帳號登入

或

使用商用帳號登入

建立帳號

使用LINE商用ID須遵從服務條款等規定，登入後即視為您同意相關
條款內容。

關於LINE商用ID

<https://developers.line.biz/en/?status=success>





Console home

Providers

Search...

Admin

DayuRobot

DeepWind

Tools

Support

TOP

Providers (3) Create

Provider Role

DayuRobot Admin

DeepWind Admin

Provider	Role
DayuRobot	Admin
DeepWind	Admin

Search...

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English

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Tools

Support

Create a new provider

Provider name ? Capstone

✓ Don't leave this empty

✓ Don't use special characters (4-byte Unicode)

- Enter no more than 100 characters

[Console home](#)[Providers](#)[Admin](#)[Capstone](#)[Tools](#)[Support](#)[TOP](#) > [Capstone](#)[Create a new channel](#)

Capstone_login
 LINE Login
Published •

Capstone_bot
 Messaging API

LINE Developers News Products Documentation FAQ Glossary Community Blog

Console home TOP > Capstone

Providers

Search... Admin Capstone Tools Support

Create a channel

Choose a channel type to continue

 LINE Login Messaging API CLOVA Skill Blockchain Service LINE MINI App

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Console home

Providers

Search...

Admin

Capstone

DayuRobot

Tools

Support

TOP

Channel icon

optional



- ✓ File type must be one of: PNG,JPG,JPEG,GIF,BMP
- ✓ File must be no larger than 3 MB

Channel name

Enter channel name

Note: The channel name can't be changed for seven days.

Providers

Search...

Admin

Capstone

DayuRobot

Tools

Support

Channel icon

optional



- ✓ File type must be one of: PNG,JPG,JPEG,GIF,BMP
- ✓ File must be no larger than 3 MB

Channel name

Capstone_bot

Note: The channel name can't be changed for seven days. Part2_LineDevelopers

Search...

Admin

Capstone

DayuRobot

Tools

Support

LINE Developers

Product

Console home

Providers

Search...

Admin

Capstone

DayuRobot

Tools

Support

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I have read and agree to the [LINE Official Account Terms of Use](#) 

I have read and agree to the [LINE Official Account API Terms of Use](#) 

 Select the checkbox after reading the related document

Create

同意我們使用您的資訊

■ 我們將會蒐集與使用的資訊

- 用戶傳送及接收的傳輸內容（包括訊息、網址資訊、影像、影片、貼圖及效果等）。
- 用戶傳送及接收所有內容的發送或撥話格式、次數、時間長度及接收發送對象等（下稱「格式等資訊」），以及透過網際協議通話技術（VoIP；網路電話及視訊通話）及其他功能所處理的內容格式等資訊。
- 企業帳號使用的 IP 位址、使用各項功能的時間、已接收內容是否已讀、網址的點選等（包括但不限於連結來源資訊）、服務使用紀錄（例如於 LINE 應用程式使用網路瀏覽器及使用時間的紀錄）及隱私權政策所述的其他資訊。

■ 我們蒐集與使用資訊並提供給第三方的目的

上述資訊將被用於 (i) 避免未經授權之使用；(ii) 提供、開發及改善本公司服務；以及 (iii) 傳送廣告。

此外，我們可能會將這些資訊分享給 LINE 關係企業或本公司的服務提供者及分包商。

如果授予此處同意的人不是企業帳號所有人所授權之人，請事先取得該被授權人的同意。如果 LINE 接獲被授權人通知表示其未曾授予同意，LINE 得中止該企業帳號的使用，且不為因此而生的任何情事負責。

同意



Console home

Providers

Search...

Admin

Capstone

DayuRobot

Tools

Support

TOP > Capstone > Capstone_bot > Basic settings

App types Bot

Permissions ⓘ PROFILE

Channel secret ⓘ [REDACTED]

Issue

Assertion Signing
Key ⓘ



Console home

Providers

Search...

Admin

Capstone

DayuRobot

Tools

Support

TOP > Capstone > Capstone_bot > Messaging API

Greeting messages Enabled



Edit

Channel access token

Channel access token (long-lived)

Issue



Search...

Admin

Capstone

Tools

Channel access token

Channel access token (long-lived)

V-MQUTLIA-4-A-ZEOGL-M-LQJUW-YUH-SIQ-VGCSLA-L-GBZBZ-L-BWIEI-J-1-a
[REDACTED]
[REDACTED]

Reissue

□Python本地架設與 Django 環境開發



■ 安裝Django與相關套件



- 進入 cmd (Anaconda Prompt / Anaconda Powershell Prompt)
- pip install django == 2.27
- pip install line-bot-sdk

■ 接著架設django環境創建一個資料夾，作為主目錄，並使用django語法創建專案

- cd c:/
- mkdir linebot #創建linebot資料夾
- cd linebot
- django-admin startproject mylinebot #創建mylinebot專案
- cd mylinebot
- python manage.py runserver localhost:8080 #運行Django

■ 接著創建django 中的 app，專門運行 linebot

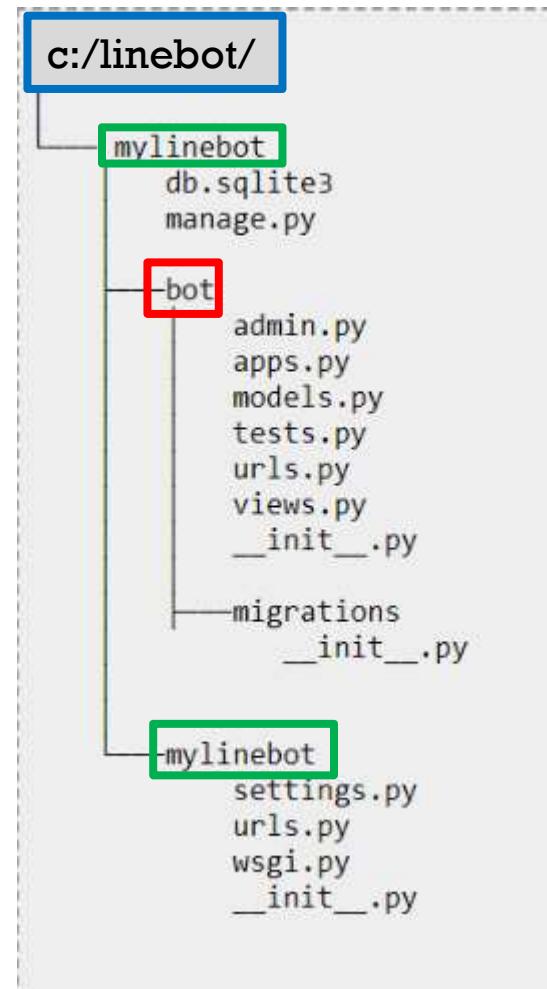
- python manage.py startapp bot



Python本地架設與 Django 環境開發

```
mkdir linebot  
cd linebot  
django-admin startproject mylinebot #創建mylinebot專案  
cd mylinebot  
python manage.py runserver 0.0.0.0:8080 #運行django
```

```
python manage.py startapp bot
```





To code the “callback” & set up API

```
temp.py views.py*
```

```
1 from django.shortcuts import render
2 # Create your views here.
3 #-- Import the third-party packages
4 from django.conf import settings
5 from django.http import HttpResponseRedirect, HttpResponseBadRequest, HttpResponseForbidden
6 from django.views.decorators.csrf import csrf_exempt
7
8 from linebot import LineBotApi, WebhookHandler
9 from linebot.exceptions import InvalidSignatureError, LineBotApiError
10 from linebot.models import (
11     MessageEvent, TextMessage, TextSendMessage, ImageSendMessage, MessageTemplateAction, TemplateSendMessage, CarouselTemplate,
12     CarouselColumn, URITemplateAction, ConfirmTemplate, ButtonsTemplate, LocationMessage, LocationSendMessage,
13     FlexSendMessage, BubbleContainer, ImageComponent, BoxComponent, TextComponent, SpacerComponent, IconComponent, ButtonComponent,
14     SeparatorComponent, URIAction, QuickReply, QuickReplyButton, MessageAction, SourceUser
15 )
16
17 #-- Link to the "Capstone_bot"
18 line_bot_api = LineBotApi("channel_access_token")    #在 line_developer 取得
19 handler = WebhookHandler("channel_secret")           #在 line_developer 取得
20
21 #-----機器人主程式-----
22 @csrf_exempt
23 def callback(request):
24     if request.method == 'POST':
25         signature = request.META['HTTP_X_LINE_SIGNATURE']
26         body = request.body.decode('utf-8')
# get X-Line-Signature header value
# get request body as text
27         try:
28             events = handler.handle(body, signature)
29         except InvalidSignatureError:
30             return HttpResponseRedirect()
31         except LineBotApiError:
32             return HttpResponseRedirect()
33
34         for event in events:
35             if isinstance(event, MessageEvent):
36                 if isinstance(event.message, TextMessage):
37                     line_bot_api.reply_message(event.reply_token, TextSendMessage(text=event.message.text))
38
39     return HttpResponseRedirect()
```



get X-Line-Signature header value

get request body as text

handle webhook body

接收 LINE 的資訊

□ Ngrok設定與佈署



Download ngrok

The fastest way to put anything on the internet.

Mac OS Windows Linux Docker Other

Install ngrok via Chocolatey

```
$ choco install ngrok
```

or

Download ZIP file

Windows (64-bit) ▼ Download

Ask a question

<https://ngrok.com/download>



Anaconda Powershell Prompt

鍵入: cd c:\linebot\mylinebot

鍵入: python manage.py runserver localhost:8080

```
Anaconda Prompt (Anaconda3) - python manage.py runserver 0.0.0.0:8080
Django version 2.2.7, using settings 'mylinebot.settings'
Starting development server at http://0.0.0.0:8080/
Quit the server with CTRL-BREAK.
Invalid HTTP_HOST header: '192.168.0.103:8080'. You may need to add '192.168.0.103' to ALLOWED_HOSTS.
Bad Request: /
[04/May/2020 17:07:22] "GET / HTTP/1.1" 400 63178
Invalid HTTP_HOST header: '192.168.0.103:8080'. You may need to add '192.168.0.103' to ALLOWED_HOSTS.
Bad Request: /v1/status
[04/May/2020 17:07:24] "GET /v1/status HTTP/1.1" 400 63277
Invalid HTTP_HOST header: '192.168.0.103'. You may need to add '192.168.0.103' to ALLOWED_HOSTS.
Bad Request: /HNAP1/
[04/May/2020 17:07:24] "GET /HNAP1/ HTTP/1.1" 400 63323

(base) c:\linebot\mylinebot>python manage.py runserver 0.0.0.0:8080
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).

You have 17 unapplied migration(s). Your project may not work properly until you apply the migrations for app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
May 04, 2020 - 17:09:08
Django version 2.2.7, using settings 'mylinebot.settings'
Starting development server at http://0.0.0.0:8080/
Quit the server with CTRL-BREAK.
```



ngrok.exe

鍵入: ngrok http 8080

```
C:\Users\hmkao\Desktop\Capstone_course\ngrok.exe - ngrok http 8080
ngrok by @inconshreveable
(Ctrl+C to quit)

Session Status
Session Expires          online
Version                  2.3.35
Region                   United States (us)
Web Interface            http://127.0.0.1:4040
Forwarding               http://fe0dfd2f.ngrok.io -> http://localhost:8080
                         https://fe0dfd2f.ngrok.io -> http://localhost:8080
```

Connections	ttl	opn	rtt1	rtt5	p50	p90
	0	0	0.00	0.00	0.00	0.00



linebot\mylinebot\mylinebot\settings.py

Spyder (Python 3.7)

File Edit Search Source Run Debug Consoles Projects Tools View Help

Editor - C:\linebot\mylinebot\mylinebot\settings.py

temp.py urls.py settings.py

```
1 """
2 Django settings for mylinebot project.
3
4 Generated by 'django-admin startproject' using Django 2.2.7.
5
6 For more information on this file, see
7 https://docs.djangoproject.com/en/2.2/topics/settings/
8
9 For the full list of settings and their values, see
10 https://docs.djangoproject.com/en/2.2/ref/settings/
11 """
12
13 import os
14
15 # Build paths inside the project like this: os.path.join(BASE_DIR, ...)
16 BASE_DIR = os.path.dirname(os.path.dirname(os.path.abspath(__file__)))
17
18
19 # Quick-start development settings - unsuitable for production
20 # See https://docs.djangoproject.com/en/2.2/howto/deployment/checklist/
21
22 # SECURITY WARNING: keep the secret key used in production secret!
23 SECRET_KEY = 'XXXXXXXXXXXXXXXXXXXXXX'
24
25 # SECURITY WARNING: don't run with debug turned on in production!
26 DEBUG = True
27
28 ALLOWED_HOSTS = ['2b3eff8c.ngrok.io', 'localhost', '*']
29
30
31 # Application definition
```

Source Console Object Help

Usage

Here you can get help of any object by pressing **Ctrl+I** in front of it, either on the Editor or the Console.

Variable ... File e... H...

IPython console

Console I/A

IPython 5.5.0 -- An enhanced Interactive Python.

? -> Introduction and overview of IPython's features.

%quickref -> Quick reference.

help -> Python's own help system.

object? -> Details about 'object', use 'object??' for extra details.

In [1]:

Mail Permissions: RW End-of-lines: CRLF Encoding: ASCII Line: 28 Column: 56 Memory: 51%



linebot\mylinebot\mylinebot\bot"urls.py

設定 bot 中的 urls 路徑

Spyder (Python 3.7)

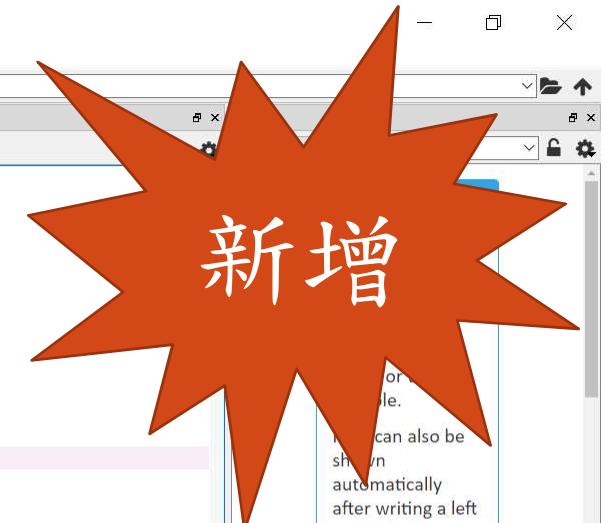
File Edit Search Source Run Debug Consoles Projects Tools View Help

Editor - C:\linebot\mylinebot\bot"urls.py

temp.py urls.py

```
1 # -*- coding: utf-8 -*-
2 """
3 Created on Mon May  4 16:16:08 2020
4
5 @author: hmka
6 """
7
8 from django.conf.urls import include, url
9 from . import views
10 urlpatterns = [
11     url('^callback/', views.callback),
12 ]
13
```

用來串接callback主程式



IPython console

Variable explorer File explorer Help

Console I/A

Python 3.7.3 (default, Apr 24 2019, 15:29:51) [MSC v.1915 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 5.5.0 -- An enhanced Interactive Python.
? -> Introduction and overview of IPython's features.
%quickref -> Quick reference.
help -> Python's own help system.



linebot\mylinebot\mylinebot"urls.py

設定mylinebot 中的 urls 檔案

The screenshot shows the Spyder Python IDE interface with the file `C:\linebot\mylinebot\bot\urls.py` open. The code is a Django URL configuration:

```
1 """mylinebot URL Configuration
2
3 The `urlpatterns` list routes URLs to views. For more information please see:
4     https://docs.djangoproject.com/en/2.2/topics/http/urls/
5 Examples:
6 Function views
7     1. Add an import: from my_app import views
8     2. Add a URL to urlpatterns: path('', views.home, name='home')
9 Class-based views
10    1. Add an import: from other_app.views import Home
11    2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')
12 Including another URLconf
13    1. Import the include() function: from django.urls import include, path
14    2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
15 """
16 from django.contrib import admin
17 from django.urls import path
18 from django.conf.urls import include, url
19
20 urlpatterns = [
21     path('admin/', admin.site.urls),
22     url(r'^bot/', include('bot.urls')),
23 ]
```

A red box highlights the line `from django.conf.urls import include, url`. Another red box highlights the line `url(r'^bot/', include('bot.urls'))`.

將bot 的 urls 檔案 include 進來
此時 url 路徑為 /bot/callback/ ，就會運行 bot 底下的 callback 函數

Variable explorer
Name Type Size Value
Variable ... File e... H...
IPython console
Console 2/A
IPython 5.5.0 -- An enhanced Interactive Python.
? -> Introduction and overview of IPython's features.
%quickref -> Quick reference.
help -> Python's own help system.
object? -> Details about 'object', use 'object??' for extra details.
In [1]:

Page not found (404)

Request Method: GET
Request URL: http://2b3eff8c.ngrok.io/

Using the URLconf defined in `mylinebot.urls`, Django tried these URL patterns, in this order:

1. `admin/`
2. `^bot/`

The empty path didn't match any of these.

You're seeing this error because you have `DEBUG = True` in your Django settings file. Change that to `False`, and Django will display a standard 404 page.

ValueError at /bot/callback/

The view `bot.views.callback` didn't return an `HttpResponse` object. It returned `None` instead.

Request Method: GET
Request URL: http://2b3eff8c.ngrok.io/bot/callback/
Django Version: 2.2.7
Exception Type: `ValueError`
Exception Value: The view `bot.views.callback` didn't return an `HttpResponse` object. It returned `None` instead.
Exception Location: C:\Users\hmkao\Anaconda3\lib\site-packages\django\core\handlers\base.py in `_get_response`, line 126
Python Executable: C:\Users\hmkao\Anaconda3\python.exe
Python Version: 3.7.3
Python Path: ['C:\\linebot\\mylinebot', 'C:\\Users\\hmkao\\Anaconda3\\python37.zip', 'C:\\Users\\hmkao\\Anaconda3\\DLLs', 'C:\\Users\\hmkao\\Anaconda3\\lib', 'C:\\Users\\hmkao\\Anaconda3', 'C:\\Users\\hmkao\\Anaconda3\\lib\\site-packages', 'C:\\Users\\hmkao\\Anaconda3\\lib\\site-packages\\win32', 'C:\\Users\\hmkao\\Anaconda3\\lib\\site-packages\\win32\\lib', 'C:\\Users\\hmkao\\Anaconda3\\lib\\site-packages\\Pythonwin']
Server time: Mon, 4 May 2020 13:26:16 +0000

Traceback [Switch to copy-and-paste view](#)

C:\Users\hmkao\Anaconda3\lib\site-packages\django\core\handlers\exception.py in `inner`

34. response = `get_response(request)`

...

Console home

Providers ▲

Search...

Admin

Capstone

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Tools

Support

TOP > Capstone > Capstone_bot > Messaging API

PUSH_MESSAGE

Webhook settings

Webhook URL ⓘ

Edit



LINE Official Account features

Edit the message text and other settings for these features in the LINE Official Account Manager

Providers ▲

Search...

Admin

Capstone

DayuRobot

Webhook settings

Webhook URL ⓘ

https://fe0dfd2f.ngrok.io/bot/callback/



✓ Don't leave this empty
✓ Enter a valid HTTPS URL
✓ Enter no more than 500 characters

Update Cancel





Console home

Providers

Search...

Admin

Capstone

DayuRobot

TOP > Capstone > Capstone_bot > Messaging API

Webhook settings

Webhook URL ⓘ <https://fe0dfd2f.ngrok.io/bot/callback/>

Verify Edit

Use webhook ⓘ



Console home

Providers

Search...

Admin

Capstone

DayuRobot

TOP > Capstone > Capstone_bot > Messaging API

Webhook settings

Webhook

Error

The webhook returned an HTTP status code other than 200

OK





Capstone_bot 展示



33

PART3: APP ENGINE





申請 Google Cloud Platform 帳號

Needs “gmail” account

A screenshot of a search results page from a search engine. The search bar at the top contains the query "GCP 申請流程". Below the search bar, there is a snippet of text: "約有 157,000 項結果 (搜尋時間 : 0.28 秒)". A large black hand cursor icon is positioned over the first search result, which is titled "申請Google Cloud Platform 帳號". The result lists eight steps for account application:

1. 開啟**GCP** 首頁
2. 同意**GCP** 服務條款
3. 啟用\$300 美元試用額度
4. 再同意**GCP** 服務條款
5. 填寫客戶資訊
6. 填寫付款方式
7. 建立你的**GCP** 專案
8. 為專案命名

下方显示日期为 "2018年11月19日".

www.tekapo.io › 自助開店 ▾

申請Google Cloud Platform 帳號 - TekapoCart

A screenshot of the TekapoCart website. The URL "www.tekapo.io/page/8-apply-google-cloud-platform-account" is visible in the address bar. The page title is "申請Google Cloud Platform 帳號 - TekapoCart". A large black hand cursor icon is positioned over the page content area.

<https://www.tekapo.io/page/8-apply-google-cloud-platform-account>



下載 Cloud SDK，以及安裝在本機

Cloud SDK 是一組指令列工具，用於在 Google Cloud 中進行開發作業。



約有 98,500,000 項結果 (搜尋時間 : 0.31 秒)

Cloud SDK - Google Cloud

<https://cloud.google.com> › Developer Tools › Cloud SDK ▾

Cloud SDK 是一組用於在 Google Cloud 中進行開發的工具，包含 gcloud、gsutil 和 bq 指令列工具、用戶端程式庫以及本機模擬器。

[Installing Google Cloud SDK](#)

[Cloud SDK 說明文件 | Google ...](#)

Cloud SDK

[說明文件](#)

[產品總覽](#)

[gcloud CLI 總覽](#)

快速入門導覽課程

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[適用於 Debian 和 Ubuntu](#)

[適用於 Red Hat 和 CentOS](#)

[適用於 macOS](#)

[適用於 Windows](#)

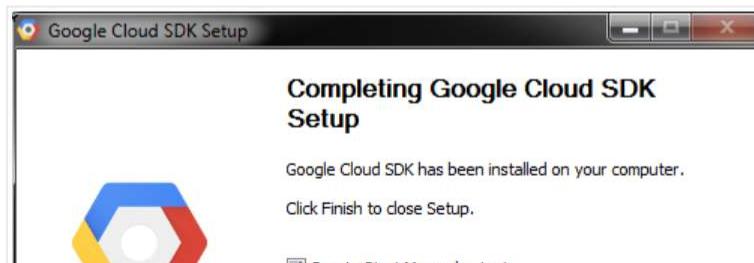
教學指南

[所有教學指南](#)

▶ [安裝 SDK](#)

Before you begin

1. [Create a Google Cloud Platform project](#), if you don't have one already.
2. Download the [Google Cloud SDK installer](#).
3. Launch the installer and follow the prompts.
4. After installation has completed, the installer presents several options:



目錄

[Before you begin](#)

[Initialize the SDK](#)

[Run core gcloud commands](#)

[What's next](#)



下載 Cloud SDK，以及安裝在本機

Google Cloud Platform capstoneCourse 搜尋產品和資源

App Engine 瞭解詳情

歡迎使用 App Engine
在 Google 提供的基礎架構上使用任何語言建置可擴充的應用程式

已建立您的 App Engine 應用程式
系統會根據您使用的程式語言引導您參閱相關資源，藉此協助您部署應用程式。

開始使用

向全世界問好！
如果您未曾使用過 App Engine，建議您從建立簡單的「Hello World」應用程式開始學習基礎知識。
時間：10 分鐘
開始教學課程

Deploy via command line
有了 Google Cloud SDK，您就能使用 CLI 輕鬆地建立和部署應用程式：

\$ gcloud app deploy

下載 SDK

Google Cloud Platform capstoneCourse 搜尋產品和資源

App Engine 開始使用 瞭解詳情

此為選用步驟，目的是引導您參閱相關的 SDK 和程式碼範例。如有需要，也會帶您瀏覽啟用計費功能的相關說明文件。

Language

Python

Environment

您應用程式的每個版本都可以採用「標準」或「彈性」執行階段。稍後您可以更改這項設定。

標準

繼續 取消

Google Cloud Platform capstoneCourse 搜尋產品和資源

App Engine 後續步驟 瞭解詳情

資源

[Documentation](#) for Python in App Engine.

Visit [Github](#) for code samples in standard Python

利用 Google Cloud SDK 部署

[下載 Cloud SDK](#)

初始化 SDK

```
$ gcloud init
```

部署至 App Engine

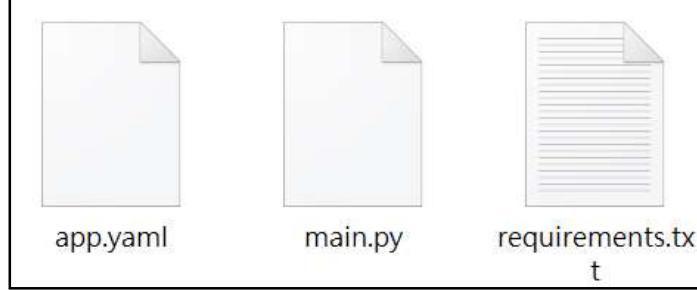
```
$ gcloud app deploy
```

稍後再部署



複製下列三個檔案至\linebot\mylinebot 中

參考檔案: Part3_App Engine

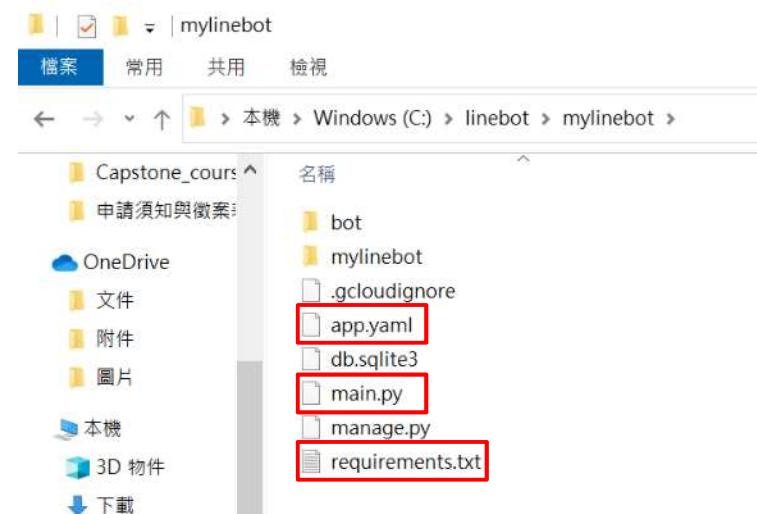


app.yaml
configure your App

main.py
Python WSGI HTTP Server for UNIX
(使用 gunicorn 托管 Django)

requirements.txt
python third-party packages you required

\linebot\mylinebot





Google Cloud SDK Shell 指令操作 (I)

```
Google Cloud SDK Shell
Welcome to the Google Cloud SDK! Run "gcloud -h" to get the list of available commands.
---
C:\Users\hmkao\AppData\Local\Google\Cloud SDK>gcloud init
```

鍵入: gcloud init (初始化)

```
Google Cloud SDK Shell - gcloud init
Welcome to the Google Cloud SDK! Run "gcloud -h" to get the list of available commands.
---
C:\Users\hmkao\AppData\Local\Google\Cloud SDK>gcloud init
Welcome! This command will take you through the configuration of gcloud.

Settings from your current configuration [default] are:
core:
  account: d95622005@g.ntu.edu.tw
  disable_usage_reporting: 'False'
  project: ecomsnet

Pick configuration to use:
[1] Re-initialize this configuration [default] with new settings
[2] Create a new configuration
[3] Switch to and re-initialize existing configuration: [test-1206]
Please enter your numeric choice:
```

```
Choose the account you would like to use to perform operations for
this configuration:
[1] d95622005@g.ntu.edu.tw
[2] dayusws@gmail.com
[3] hmkaol019@gmail.com
[4] Log in with a new account
Please enter your numeric choice:
```

選擇登入帳號 (gmail)



Google Cloud SDK Shell 指令操作 (II)

```
You are logged in as: [d95622005@g.ntu.edu.tw].
```

```
Pick cloud project to use:
```

- [1] ctspsws-dayu
- [2] dayu-244805
- [3] deepwind-260806
- [4] ecomsnet
- [5] ntu-project-2019
- [6] rational-energy-247804
- [7] taipei-project-2020
- [8] taipeicityiot-267915
- [9] Create a new project

```
Please enter numeric choice or text value (must exactly match list item):
```

選擇欲佈署的”專案名稱”

```
Your current project has been set to: [ecomsnets].
```

```
Do you want to configure a default Compute Region and Zone? (Y/n)?
```

鍵入: n (建議)

```
Some things to try next:
```

- * Run `gcloud --help` to see the Cloud Platform services you can interact with. And run `gcloud help COMMAND` to get help on any gcloud command.
- * Run `gcloud topic --help` to learn about advanced features of the SDK like arg files and output formatting.

```
C:\Users\hmka0\AppData\Local\Google\Cloud SDK>cd c:/
```

鍵入: cd c:/ (轉換執行路徑)

```
C:\Users\hmka0\AppData\Local\Google\Cloud SDK>cd c:/  
c:\>cd C:\linebot\mylinebot
```

C:\Users\hmka0\AppData\Local\Google\Cloud SDK>cd c:/ c:\>cd C:\linebot\mylinebot		
← → ▲ ↑		
	本機 > Windows (C) > linebot > mylinebot	
	名稱	修改日期
	bot	2020/5/4 下午 04:23
	mylinebot	2020/5/5 上午 10:49
	.gcloudignore	2020/5/5 上午 10:39
	app.yaml	2019/4/22 下午 11:09
	db.sqlite3	2020/5/4 上午 11:10
	main.py	2020/5/5 上午 10:49
	manage.py	2020/5/4 上午 11:08
	requirements.txt	2020/5/5 上午 10:30



Google Cloud SDK Shell 指令操作 (III)

```
C:\linebot\mylinebot>dir  
磁碟區 C 中的磁碟是 Windows  
磁碟區序號: 7C1B-7774  
C:\linebot\mylinebot 的目錄  
2020/05/05 上午 10:48 <DIR> .  
2020/05/05 上午 10:48 <DIR> ..  
2020/05/05 上午 10:39 589 .gcloudignore  
2019/04/22 下午 11:09 99 app.yaml  
2020/05/04 下午 04:23 <DIR> bot  
2020/05/04 上午 11:10 0 db.sqlite3  
2020/05/05 上午 10:49 59 main.py  
2020/05/04 上午 11:08 650 manage.py  
2020/05/05 上午 10:49 <DIR> mylinebot  
2020/05/05 上午 10:30 43 requirements.txt  
6 個檔案 1,440 位元組  
4 個目錄 403,558,113,280 位元組可用
```

鍵入: **dir** (查詢路徑下的目錄)

```
C:\linebot\mylinebot>gcloud app deploy  
Services to deploy:  
  
descriptor: [C:\linebot\mylinebot\app.yaml]  
source: [C:\linebot\mylinebot]  
target project: [ecomsnets]  
target service: [default]  
target version: [20200505t113706]  
target url: [https://ecomsnets.appspot.com]
```

鍵入: **gcloud app deploy**

(佈署程式碼至**app engine**)

```
#  
#= Uploading 0 files to Google Cloud Storage  
#=  
#File upload done.  
Updating service [default]...done.  
Setting traffic split for service [default]...done.  
Deployed service [default] to [https://ecomsnets.appspot.com]  
  
You can stream logs from the command line by running:  
$ gcloud app logs tail -s default  
  
To view your application in the web browser run:  
$ gcloud app browse  
  
C:\linebot\mylinebot>gcloud app browse
```

鍵入: **gcloud app browse**

(瀏覽佈署狀態)



Google Cloud SDK Shell 指令操作 (IV)

Page not found (404)

Request Method: GET

Request URL: <https://capstonecourse.df.r.appspot.com/>

Using the URLconf defined in `mylinebot.urls`, Django tried these URL patterns, in this order:

1. `admin/`
2. `^bot/`

The empty path didn't match any of these.

You're seeing this error because you have `DEBUG = True` in your Django settings file. Change that to `False`, and Django will display a standard 404 page.



查詢GCP，上傳至app engine的檔案

The screenshot shows the Google Cloud Platform (GCP) dashboard for the project 'capstoneCourse'. A red dashed box highlights the top navigation bar, which includes the project name 'capstoneCourse' and a search bar labeled '搜尋產品和資源'.

The main content area features several cards:

- 摘要 (計數/秒)**: A line chart showing request counts per second over time. It shows three spikes: one at approximately 10:45, another at 11:00, and a third at 11:15. The Y-axis ranges from 0 to 0.06/s.
- 所有服務狀態皆正常**: A summary message indicating all services are healthy.
- 前往 Cloud 狀態資訊主頁**: A link to view detailed service status information.
- 計費功能**: Information about billing, showing a balance of TWD \$0.00 and a billing period from April 1, 2021, to April 7, 2021.
- 計費方式導覽**: A link to navigate through different billing methods.
- 查看詳細扣款記錄**: A link to view detailed deduction records.
- Monitoring**: Options to build a custom monitoring dashboard and set up alert policies.

On the left sidebar, a red dashed box highlights the 'App Engine' section under the '資源' (Resources) category. It shows 1 version and 3 buckets.

At the bottom right, there is a circular badge with the number '44'.



設定LINE Developer 上的 Webhook URL

LINE Developers News Products Documentation FAQ Glossary Community Blog

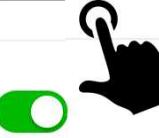
Console home Providers Search... Admin Capstone Tools Support

TOP > Capstone > Capstone_bot > Messaging API

Available APIs • REPLY_MESSAGE • PUSH_MESSAGE

Webhook settings

Webhook URL https://capstonecourse.df.r.appspot.com/bot/callback/  

 Use webhook 

© LINE Corporation Terms and policies About trademarks Need support? Please use our [inquiry form](#).  English



Capstone_bot 展示



47

PART4: RICH MENU OF LINE CHATBOT





設定Rich menu

LINE Developers

Products Documents API reference News FAQ Community Blog



Console home

Providers

Search...

Admin

Capstone

DayuRobot

Tools

Support

TOP > Capstone > Capstone_bot

Basic information

You can change your app name and icon in the [LINE Official Account Manager](#)



Channel ID 1654169555

Channel icon



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Family sites

English



設定Rich menu

LINE Official Account Manager Capstone_bot @700zilzg 輕用量 2 回應模式: 聊天機器人 HMKao Help

主頁 提醒 分析 貼文串 聊天 基本檔案 口袋商店 設定

群發訊息 漸進式訊息 NEW
自動回應訊息

+ 訊息項目
推廣相關

聊天室相關
加入好友的歡迎訊息
圖文選單
資料管理
增加好友人數
收合選單

圖文選單

建立

目前顯示的選單

此為顯示於聊天室供用戶點選的圖文選單。
※若透過 Messaging API 設定圖文選單，用戶實際看到的選單可能與此有所差異

未顯示選單

預約 / 公開 待設定

YYYY/MM/DD ~ YYYY/MM/DD 搜尋 清除

49



設定Rich menu

推廣相關

聊天室相關

- 加入好友的歡迎訊息
- 圖文選單
- 資料管理
- 增加好友人數
- 收合選單

目前顯示的選單

此為顯示於聊天室供用戶點選的圖文選單。

※若透過Messaging API設定圖文選單，用戶實際看到的選單可能與此有所差異

標題: Rich menu
使用期間: 2021/01/01 00:00 - 2021/12/31 23:59
動作:

- 文字 - 水深
- 文字 - 雨量圖
- 連結 - <https://www.cwb.gov.tw/V8/C/>

預約 / 公開 待設定

YYYY/MM/DD ~ YYYY/MM/DD

圖片	標題	動作	使用期間
			<u>Rich menu</u> <ul style="list-style-type: none">文字 - 水深文字 - 雨量圖連結 - https://www.cwb.gov.tw/V8/C/ 2021/01/01 00:00 - 2021/12/31 23:59



Capstone_bot 展示



Capstone menu ▾





TIME FOR Q & A



52