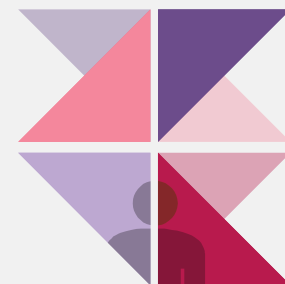




ChatGPT串接



ChatGPT

ChatGPT這麼好用，那麼是否只能在OpenAI網頁上使用？答案當然不是，不然就不會有這節課了

如何安裝？大致分成以下三大步驟

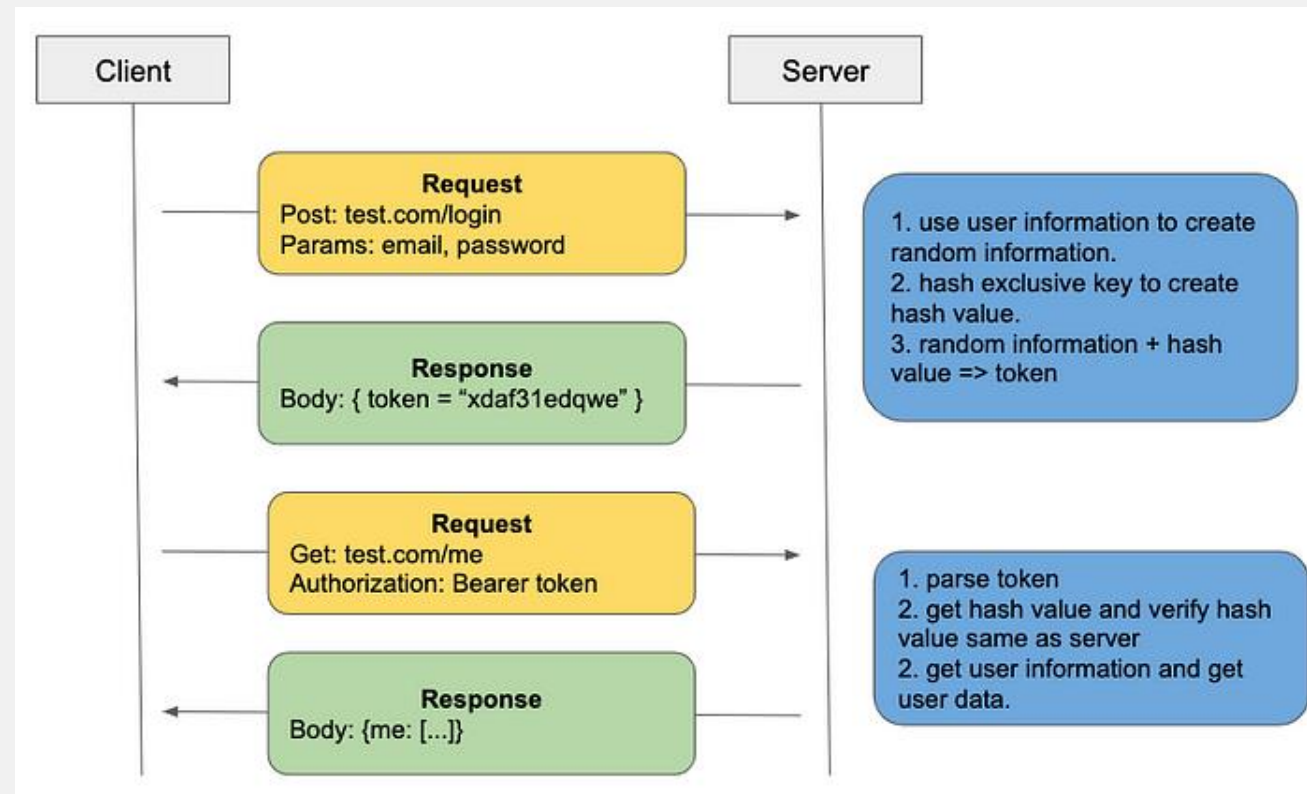
- 1. Token取得 (ChatGPT與要串接的軟體)
- 2. 專案設置
- 3. 專案執行



ChatGPT

什麼是Token?

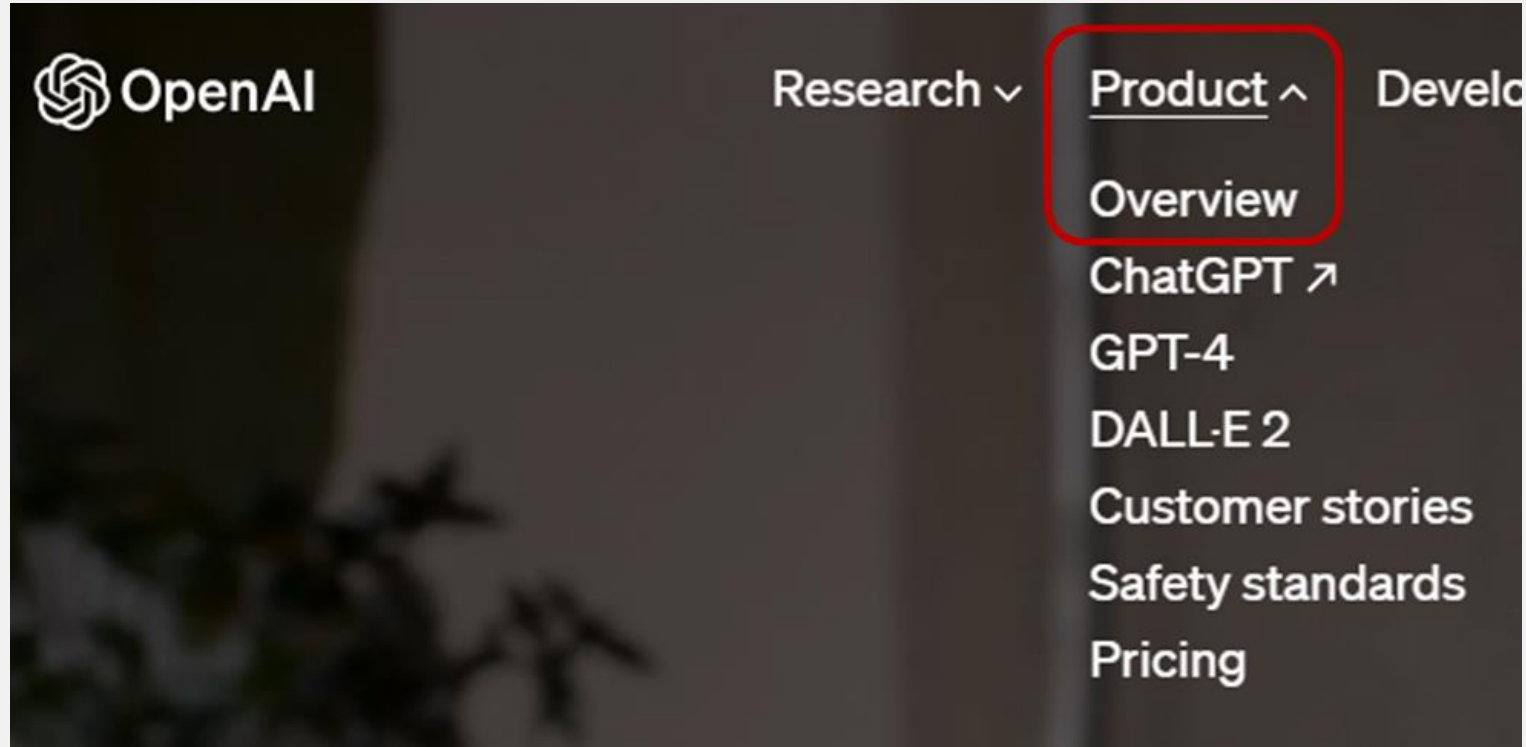
- 是一組由**有意義資訊**經過特定演算法後轉成**無意義的資訊**
- 主要用於**權限驗證**，透過解析**Token**可確定是否有權限進行某些行為



ChatGPT

➤ Token取得 (ChatGPT)

- 登入[OpenAI](#)平台
- 點Product->Overview
- 點Get started



Transforming work and
creativity with AI

Our API platform offers our latest models and guides for safety best practices.

[Get started ↗](#)

[For developers ↓](#)

ChatGPT

➤ ChatGPT Token取得

- 登入/註冊帳號
- 點右上角Personal
- 點View API Keys

The screenshot displays the OpenAI developer dashboard. At the top right, there is a navigation bar with 'Upgrade', 'Help', and a user profile icon labeled 'Personal'. A dropdown menu is open from the user profile icon, listing several options: 'Personal', 'Manage account', 'View API keys' (highlighted with a red border), 'Invite team', 'Help', 'Pricing', 'Terms & policies', and 'Log out'. The main content area is titled 'Welcome to OpenAI' and is divided into two sections: 'Start with the basics' and 'Build an application'. The 'Start with the basics' section contains two cards: 'Quickstart tutorial' (Learn by building a quick sample app) and 'Examples' (Explore some example tasks). The 'Build an application' section contains six cards: 'Chat Beta' (Learn how to use chat-based language models), 'Text completion' (Learn how to generate or edit text), 'Embeddings' (Learn how to search, classify, and compare text), 'Speech to text Beta' (Learn how to turn audio into text), 'Image generation Beta' (Learn how to generate or edit images), and 'Fine-tuning' (Learn how to train a model for your use case).

ChatGPT

➤ ChatGPT Token取得

- Create New secret Key
- 複製Key於記事本中，後續會用到

API keys

Your secret API keys are listed below. Please note that we do not display your secret API keys again after you generate them.

Do not share your API key with others, or expose it in the browser or other client-side code. In order to protect the security of your account, OpenAI may also automatically rotate any API key that we've found has leaked publicly.

You currently do not have any API keys. Please create one below.

[+ Create new secret key](#)

Default organization

If you belong to multiple organizations, this setting controls which organization is used by default when making requests with the API keys above.

Personal

Note: You can also specify which organization to use for each API request. See [Authentication](#) to learn more.

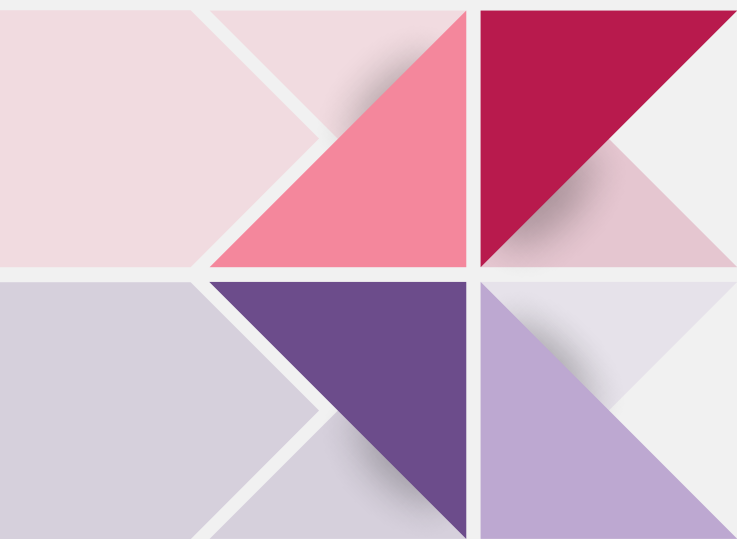
API key generated

Please save this secret key somewhere safe and accessible. For security reasons, **you won't be able to view it again** through your OpenAI account. If you lose this secret key, you'll need to generate a new one.

sk-



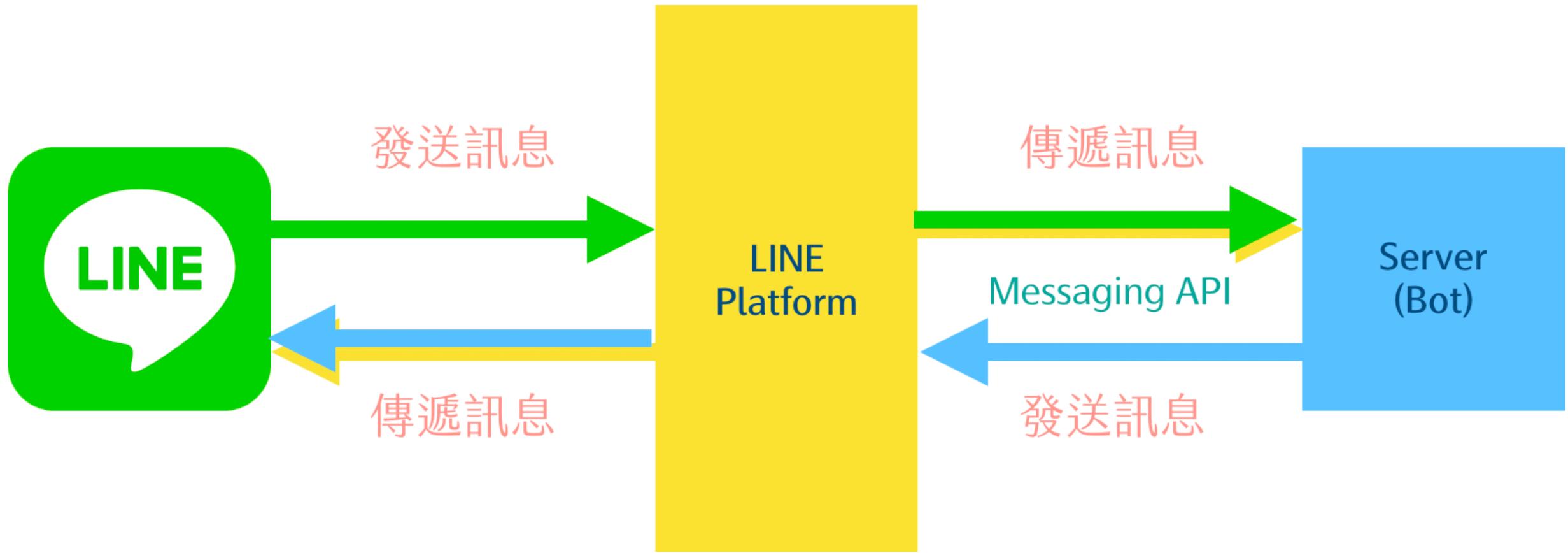
OK



01

Line Bot

ChatGPT



ChatGPT

➤ Token取得 (Line)

- 登入 [Line Developers](#)
- Create a new provider

Welcome to the LINE Developers Console!

Here, you'll find information and tools for connecting your technology to the LINE Platform, helping you build apps that connect people.

To get started, create a provider to represent your company, yourself, or another entity that provides the apps and services you're working on.



Start by creating a provider



Then, create a channel for each app you want to connect to the LINE Platform



Lastly, enter the necessary information to link your apps to your channels, and start building!

Create a new provider

Create a new provider

Provider name [?]

ChatGPT

- ✓ Don't leave this empty
- ✓ Don't use special characters (4-byte Unicode)
- ✓ Enter no more than 100 characters

A provider is an individual developer, company, or organization that provides services. For more details, see the [documentation](#).

Cancel

Create

ChatGPT

➤ Token取得 (Line)

- 選擇Create a Messaging API channel並填寫基本資料

This provider doesn't have any channels yet

To create one, choose a channel type below



Create a LINE Login channel



Create a Messaging API channel



Create a Bloc



ChatGPT

Admin

Messaging API

Basic settings

Messaging API

LIFF

Security

Statistics

Roles

Basic settings

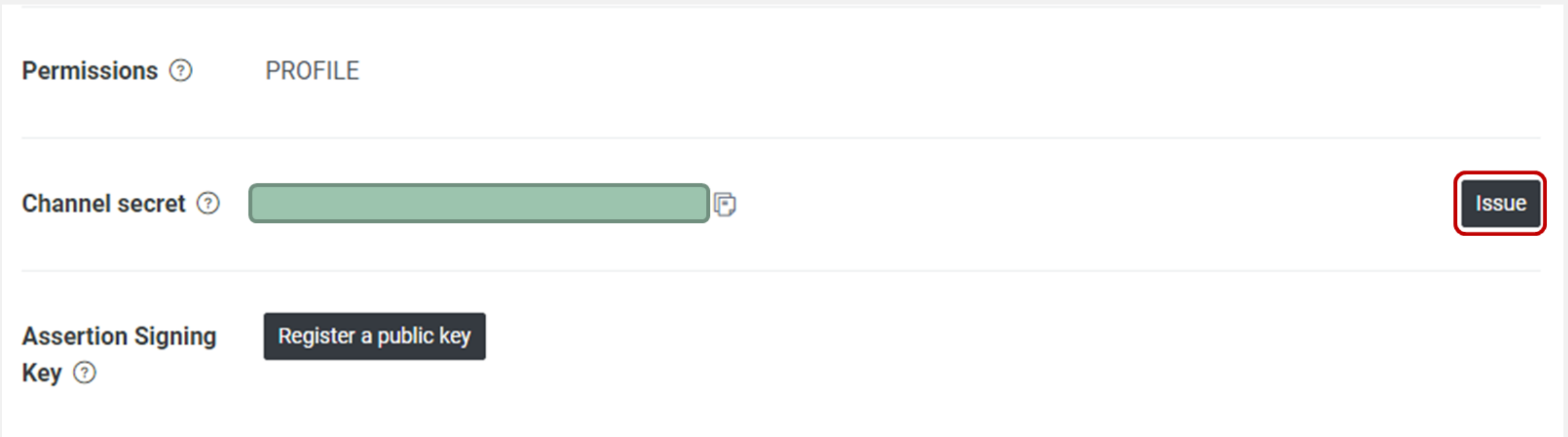
Basic information

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

ChatGPT

➤ Token取得 (Line)

- 在Basic Settings下方找到Channel Secret，按下後面的Issue按鈕產生新secret key，之後會用到



The screenshot shows the 'Basic Settings' page for a Line Bot. At the top, there are two tabs: 'Permissions' (with a help icon) and 'PROFILE'. Below the tabs, there are three main sections:

- Channel secret** (with a help icon): This section contains a green input field for the channel secret and a blue 'Issue' button to the right. The 'Issue' button is highlighted with a red border in the image.
- Assertion Signing Key** (with a help icon): This section contains a dark grey button labeled 'Register a public key'.

ChatGPT

➤ Token取得 (Line)

- 在Massaging API下方找到Channel access token，按下後面的Issue按鈕產生新token，之後會用到

Channel access token

Channel access token (long-lived) ?

Issue

Channel access token

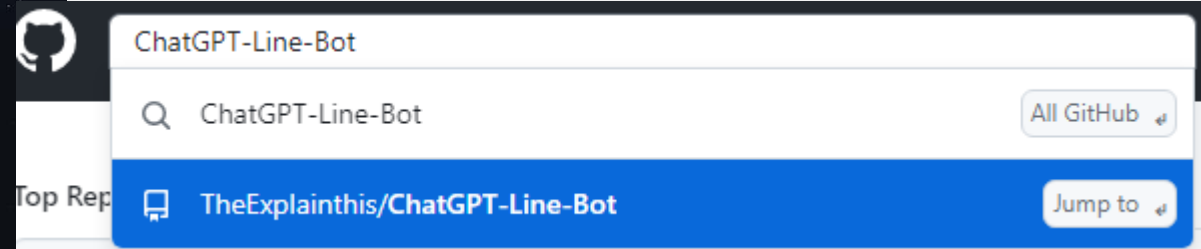
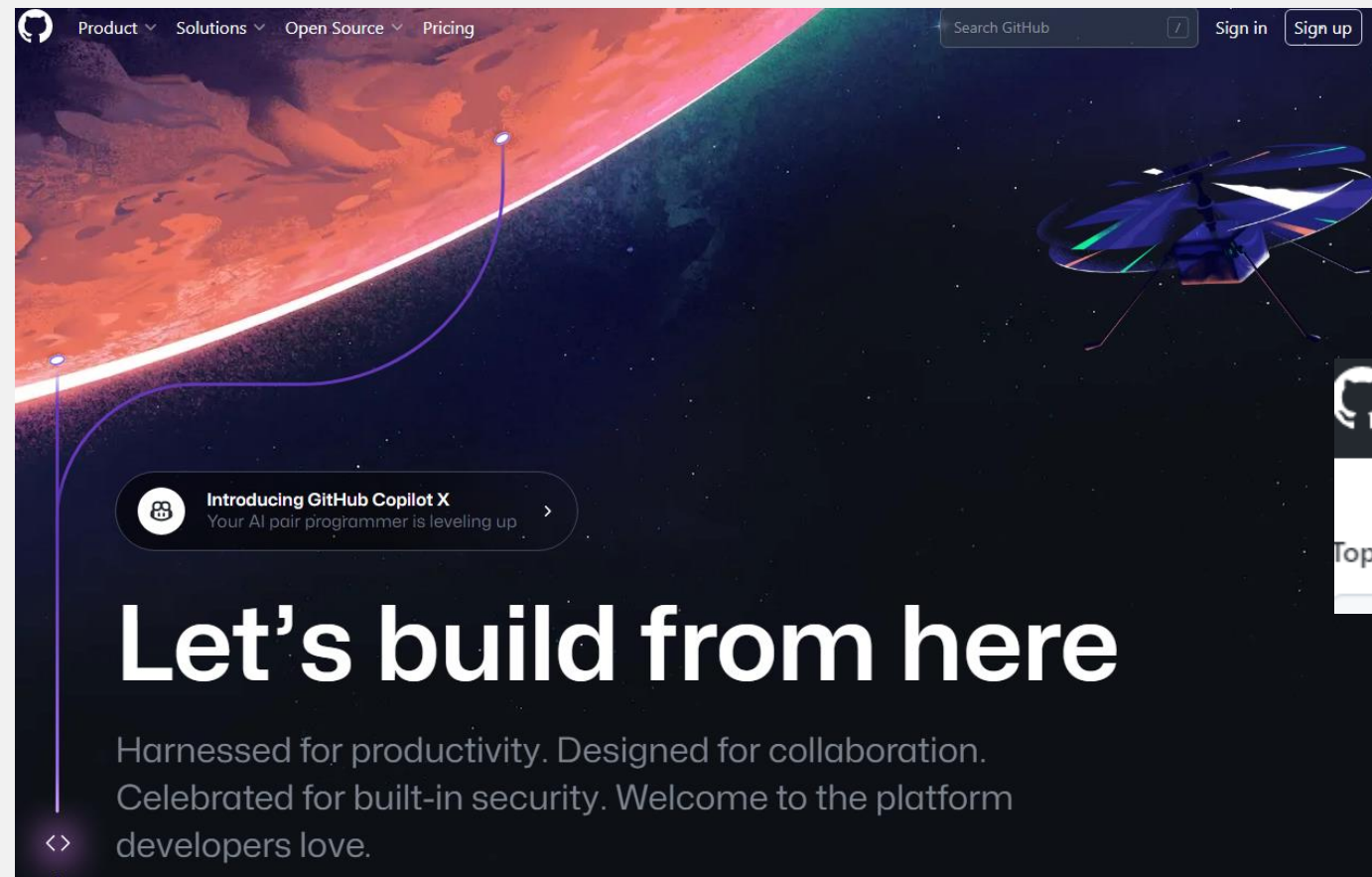
Channel access token (long-lived) ?

Mo
Vgr

ChatGPT

➤ 專案設置 (Fork Github專案)

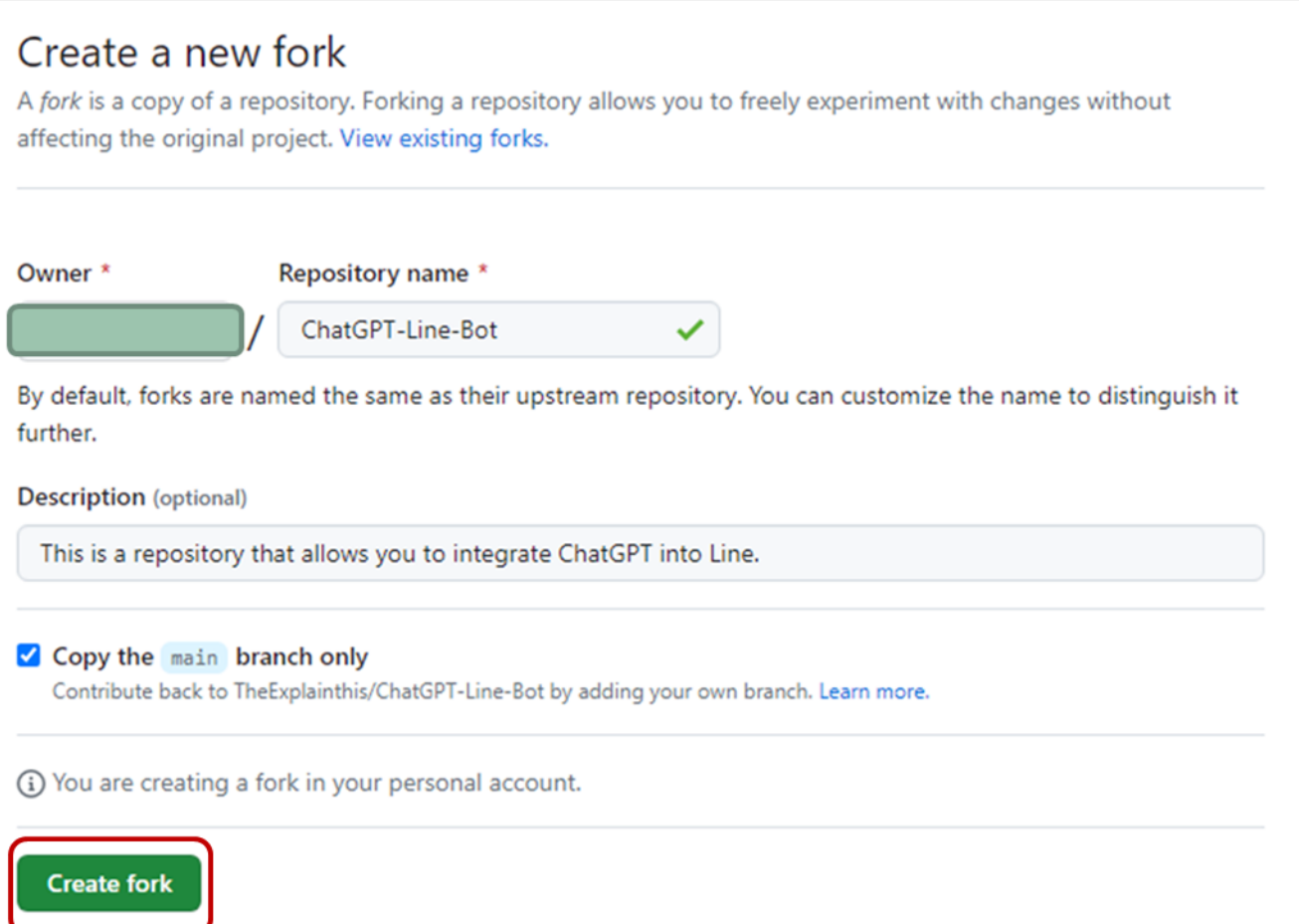
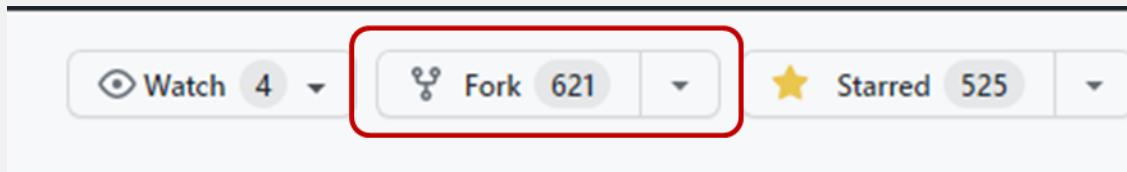
- 登入/註冊[Github](#)
- 搜尋ChatGPT-Line-Bot並點選Jump to



ChatGPT

➤ 專案設置 (Fork Github專案)

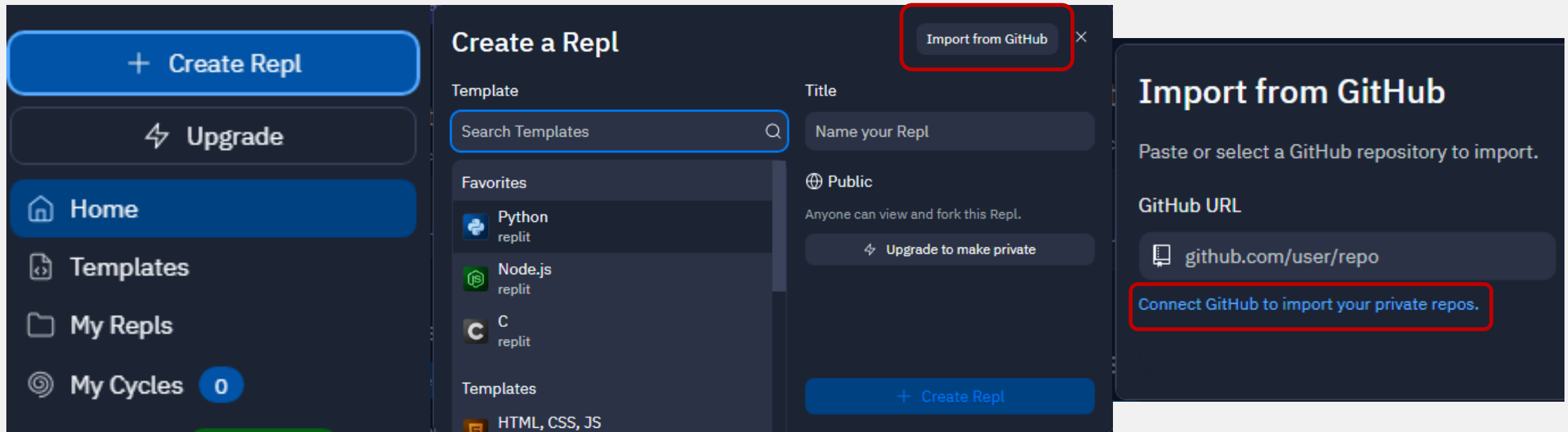
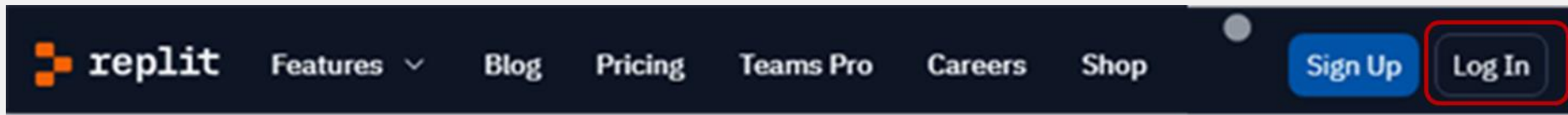
- 支持一下開發者 (點Star)
- 複製程式到自己的空間 (點Fork)



ChatGPT

➤ 專案設置 (部署)

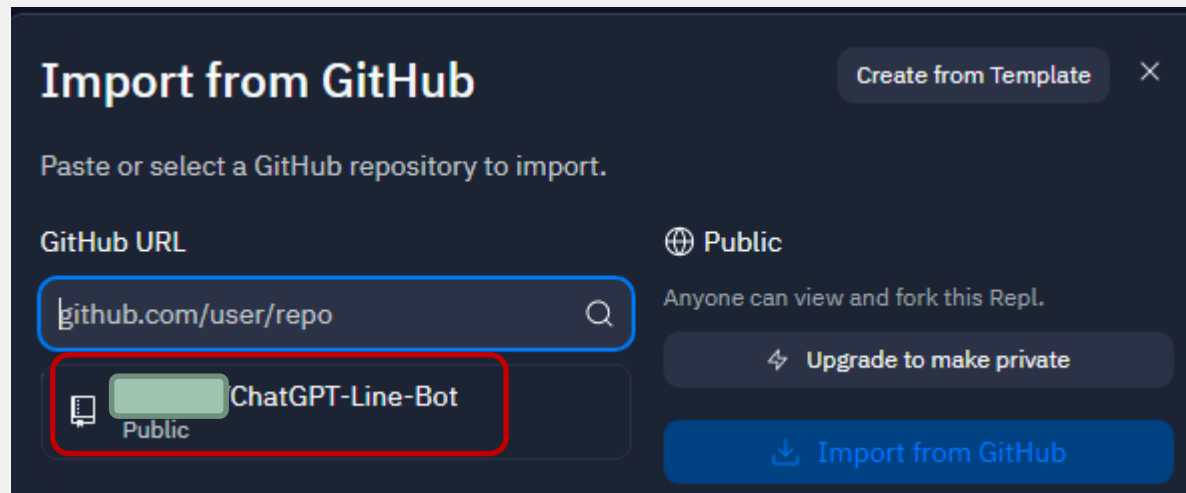
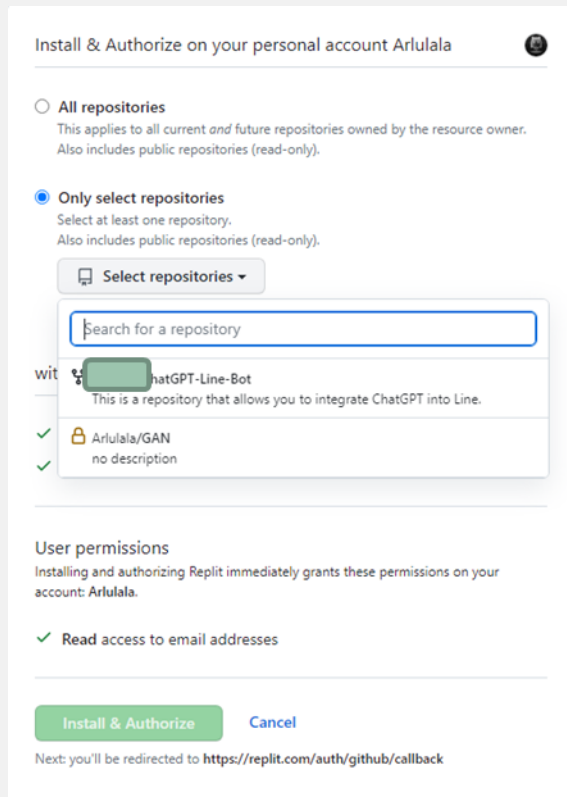
- 登入 [replit](#) (使用Github帳號並授權)
- 選Create -> 右上角Import from Github -> Connect Github to import your private repos



ChatGPT

➤ 專案設置 (部署)

- 勾選Only select repositories並選擇ChatGPT-Line-Bot
- 關閉原本Import from GitHub視窗並再一次選擇Create，URL選擇ChatGPT-Line-Bot並按下Import from GitHub



ChatGPT

The screenshot shows the Replit IDE interface for a project named "ChatGPT-Line-Bot". The main editor displays the README.en.md file with the following content:

```
1 # ChatGPT Line Bot
2
3 [中文](README.md) | English
4
5 [[license](https://img.shields.io/pypi/l/ansicolortags.svg)](LICENSE) [[
6 [Release](https://img.shields.io/github/v/release/TheExplainthis/ChatGPT-
7 Line-Bot)](https://github.com/TheExplainthis/ChatGPT-Line-Bot/releases/)
8
9 ## Update
10 - 2023/03/23 Update summary of Youtube videos and news articles (supports:
11 United Daily News, SET, Yahoo News, Central News Agency, Storm Media,
12 TVBS, Liberty Times, ETtoday, China Times, Line News, TTV News)
13 - 2023/03/18 Added Whisper service, users can now add their own tokens,
14 and added command (refer to the documentation below)
15 - 2023/03/03 Model change to chat completion: `gpt-3.5-turbo`
16
17 ## Introduction
18 Import the ChatGPT bot to Line and start interacting with it by simply
19 typing text in the input box. In addition to ChatGPT, the model for DALL-E
20 2 is also integrated. Enter `/imagine + text` to return the corresponding
21 image, as shown in the figure below:
22
23 ![Demo](https://github.com/TheExplainthis/ChatGPT-Line-
24 Bot/blob/main/demo/chatgpt-line-bot.gif)
25
26 ## Installation Steps
27 ### Token Retrieval
28 1. Retrieve the OpenAI API Token:
29 1. Register/login to your [OpenAI](https://beta.openai.com/) account.
30 2. Click on the avatar on the top right corner and select `View API
31 keys`.
32 3. Click on `Create new secret key` in the middle, and the generated
33 token will be `OPENAI_API` (to be used later).
34 - Note: Each API has a free quota and restrictions. For details,
35 please refer to [OpenAI Pricing](https://openai.com/api/pricing/).
36 2. Retrieve the Line Token:
37 1. Login to [Line Developer](https://developers.line.biz/zh-hant/).
38 2. Create a bot:
39 1. Create a `Provider` -> click `Create`.
40 2. Create a `Channel` -> select `Create a Messaging API channel`.
```

The right sidebar shows the "Configure Repl" panel with the following options:

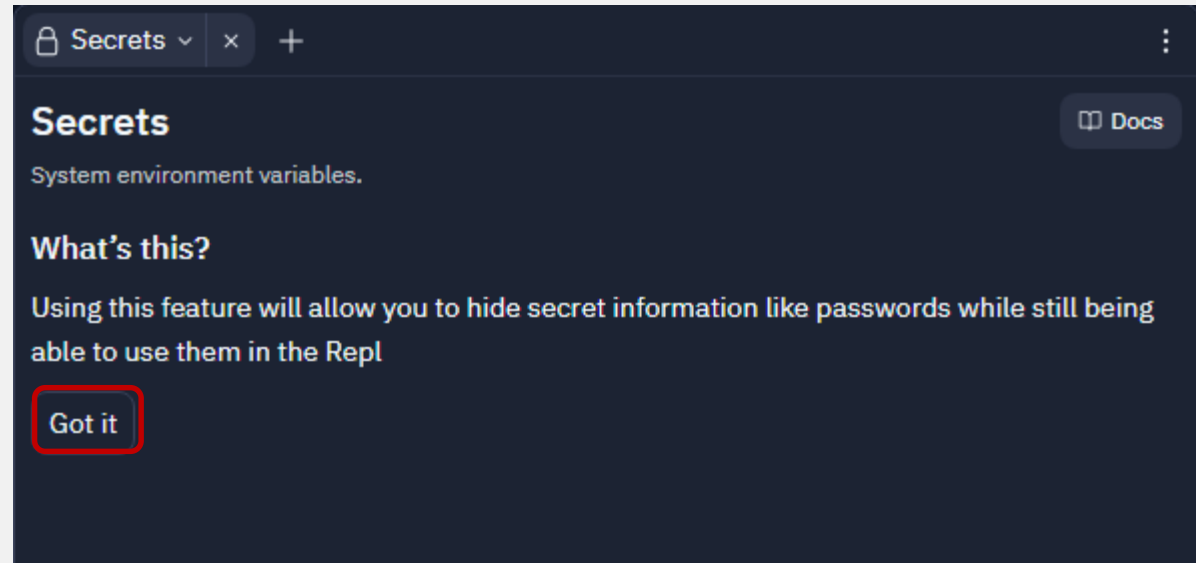
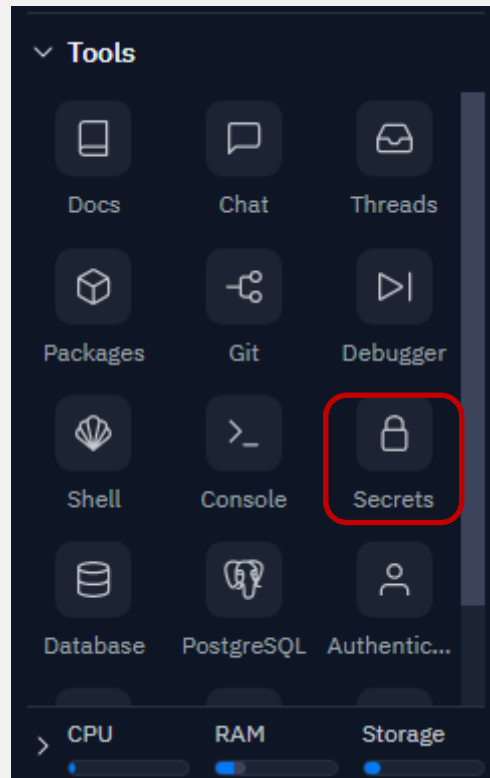
- Use run command
- Use default interpreter
- Configure entry point: .env.example
- Not sure what to do?
- Done

The bottom console shows the following tabs: Console, Shell, and a plus sign for additional tabs.

ChatGPT

➤ 專案執行 (新增環境變數)

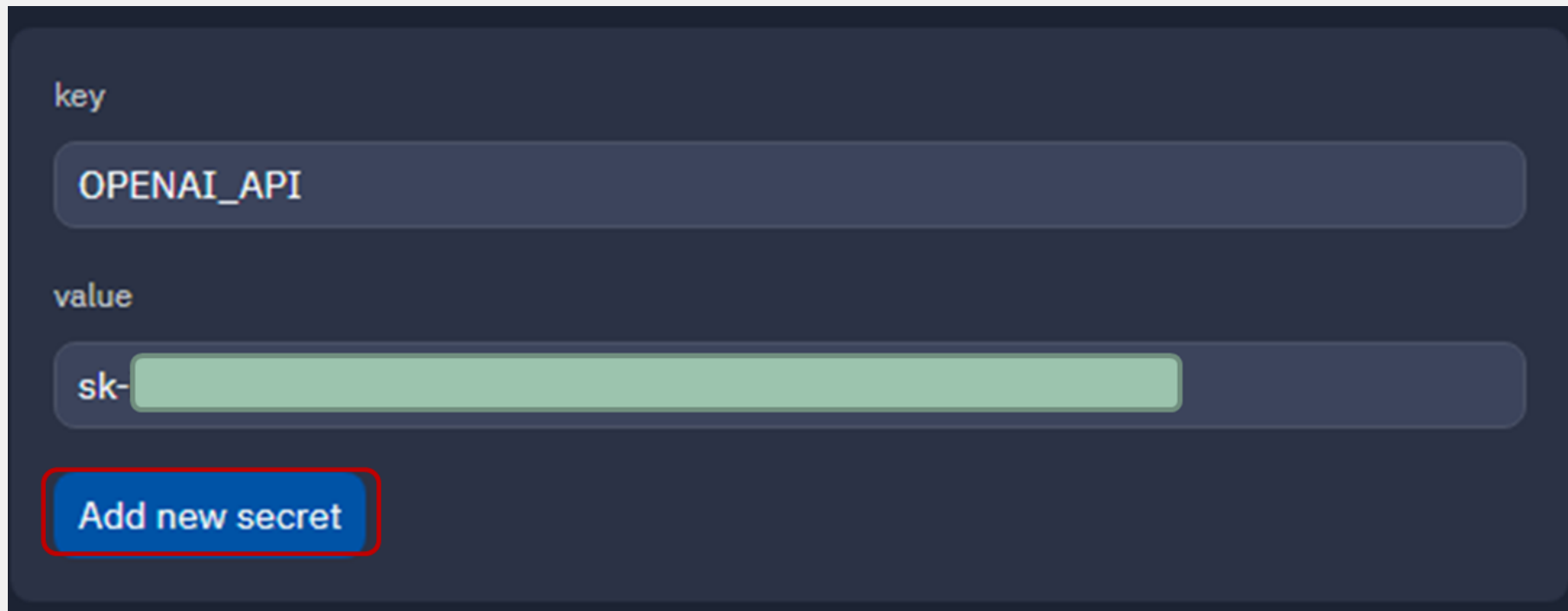
- Tools -> Secrets
- 右方 -> Got it 可新增環境變數 (OpenAI API Token、Line Channel Secret、以及Line Channel Token)



ChatGPT

➤ 專案執行 (新增環境變數)

- OpenAI Token
 - ❑ Key: OPENAI_API
 - ❑ Value: 前面產生的OpenAI Token
 - ❑ Add new secret

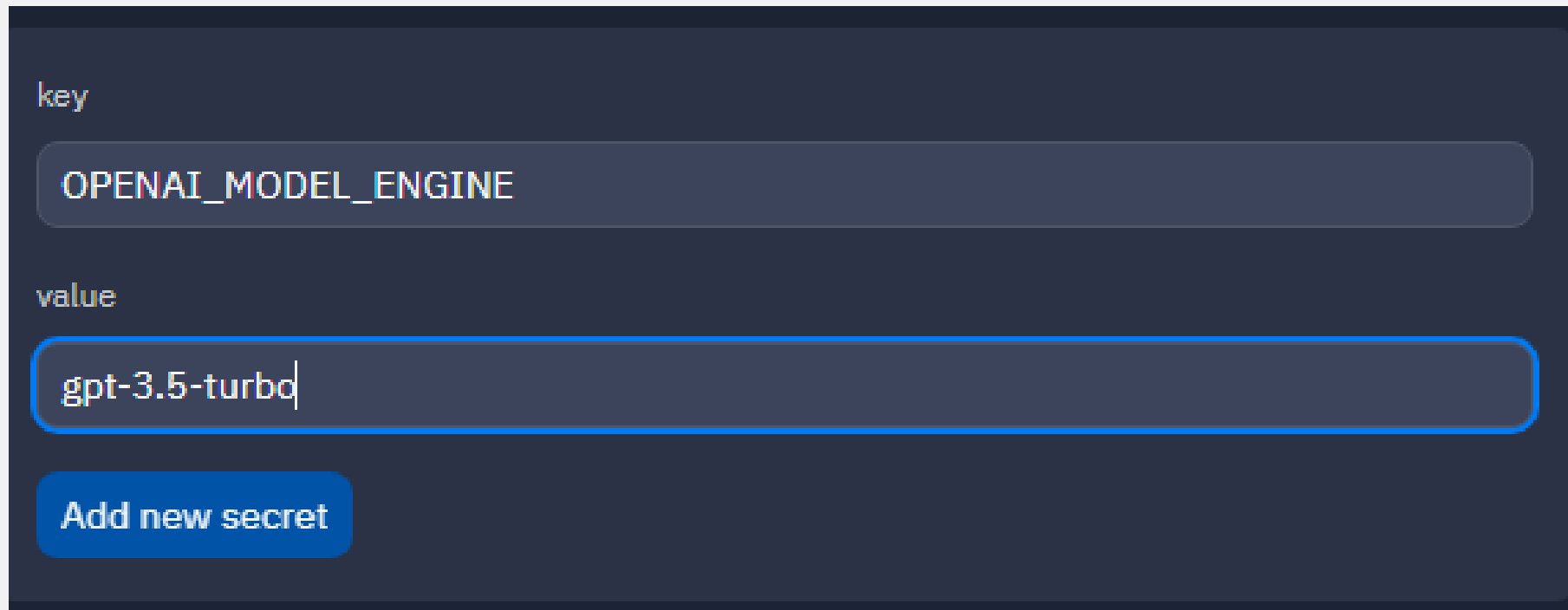


The screenshot shows a dark-themed interface for adding a new secret. It features two input fields: one for the 'key' labeled 'OPENAI_API' and another for the 'value' labeled 'sk-'. The 'value' field is highlighted with a green background. Below the input fields is a blue button labeled 'Add new secret', which is highlighted with a red border.

ChatGPT

➤ 專案執行 (新增環境變數)

- 選擇的模型
 - ❑ Key: OPENAI_MODEL_ENGINE
 - ❑ Value: gpt-3.5-turbo
 - ❑ Add new secret



The screenshot shows a dark-themed interface for adding a new secret. It features two input fields: one for the 'key' and one for the 'value'. The 'key' field contains the text 'OPENAI_MODEL_ENGINE'. The 'value' field contains the text 'gpt-3.5-turbo'. Below the input fields is a blue button labeled 'Add new secret'.

```
key
OPENAI_MODEL_ENGINE

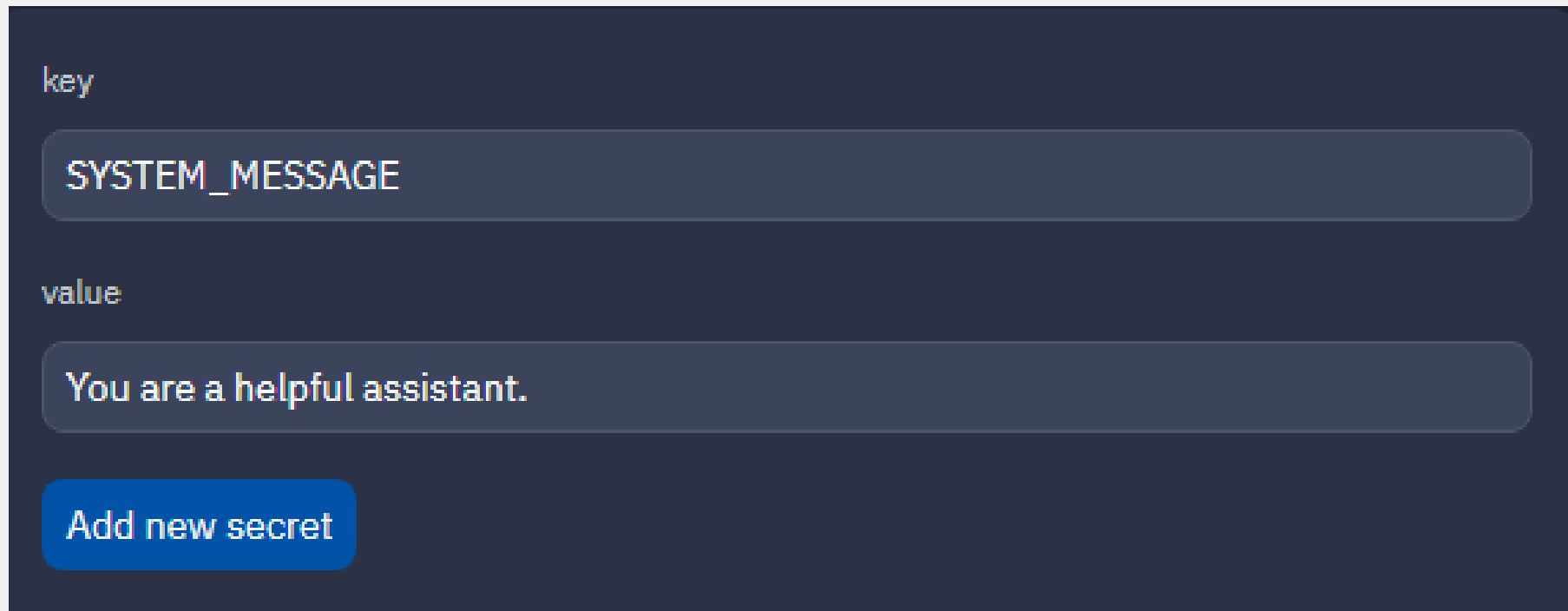
value
gpt-3.5-turbo

Add new secret
```

ChatGPT

➤ 專案執行 (新增環境變數)

- 選擇的模型
 - ❑ Key: SYSTEM_MESSAGE
 - ❑ Value: You are a helpful assistant.
 - ❑ Add new secret



The screenshot shows a dark-themed interface for adding a new secret. It features three input fields and a button. The first field is labeled 'key' and contains the text 'SYSTEM_MESSAGE'. The second field is labeled 'value' and contains the text 'You are a helpful assistant.'. Below these fields is a blue button with the text 'Add new secret'.

ChatGPT

➤ 專案執行 (新增環境變數)

- 選擇的模型
 - ❑ Key: LINE_CHANNEL_SECRET
 - ❑ Value: 複製Line Channel Secret
 - ❑ Add new secret

key

LINE_CHANNEL_SECRET

value

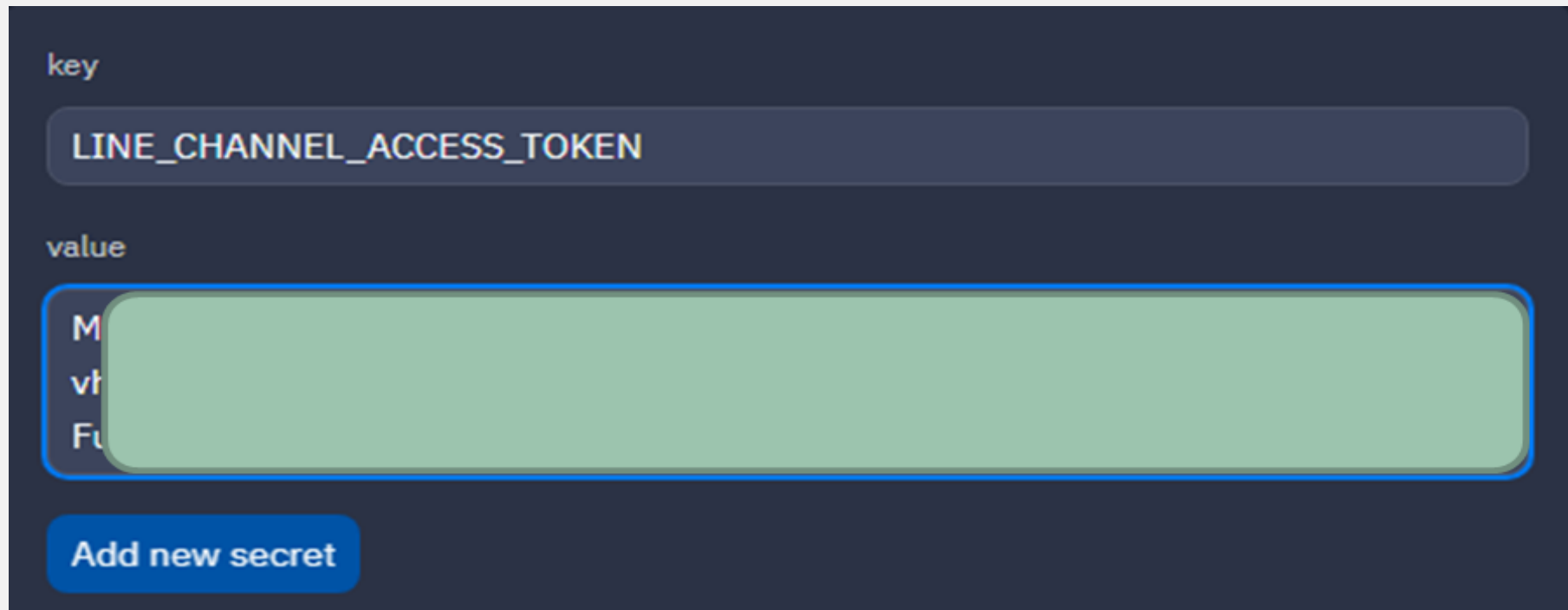
1:

Add new secret

ChatGPT

➤ 專案執行 (新增環境變數)

- 選擇的模型
 - ❑ Key: LINE_CHANNEL_ACCESS_TOKEN
 - ❑ Value: 複製Line Token
 - ❑ Add new secret

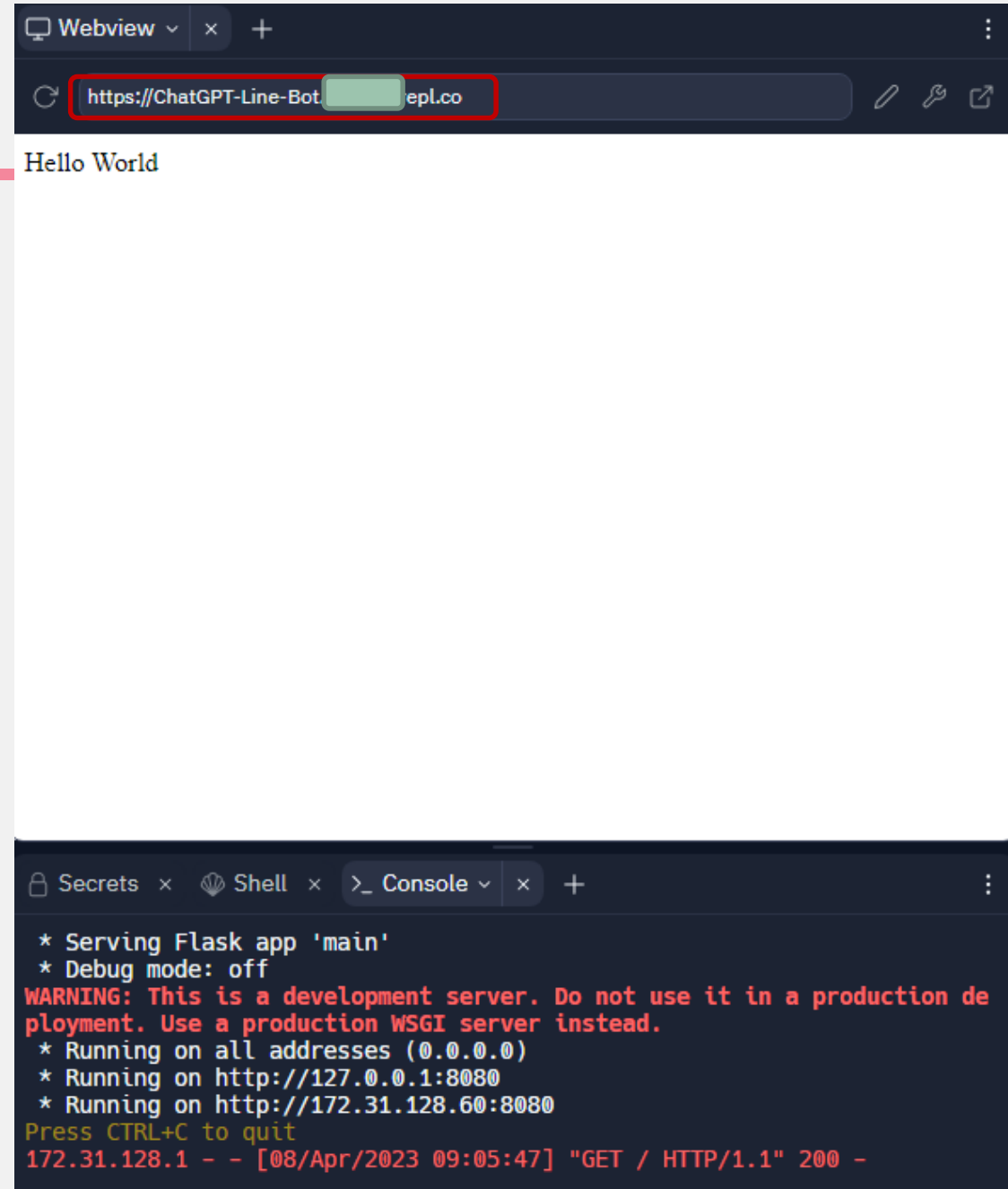


The screenshot shows a dark-themed interface for adding a new secret. It features two input fields: one for the 'key' containing the text 'LINE_CHANNEL_ACCESS_TOKEN', and another for the 'value' which is currently empty and highlighted with a blue border. Below the value field is a blue button labeled 'Add new secret'.

ChatGPT

➤ 專案執行 (執行)

- 按下上方Run -> 右邊顯示Hello World
- 複製網址



ChatGPT

➤ 專案執行 (執行)

- Line Developer -> Messaging API -> Webhook URL -> 貼上上一步網址並加上/callback
- 打開Use webhook
- 關閉Auto-reply messages

The image shows a screenshot of the Line Developer interface. At the top, the 'Webhook settings' section is visible, with the 'Webhook URL' field containing the URL: `https://ChatGPT-Line-Bot.[redacted].repl.co/callback`. Below the URL field are three green checkmarks indicating validation: 'Don't leave this empty', 'Enter a valid HTTPS URL', and 'Enter no more than 500 characters'. There are 'Update' and 'Cancel' buttons below the checkmarks.

To the right, the '回應功能' (Response Functions) section is partially visible, showing three settings:

- 聊天** (Chat): Disabled (toggle off). Description: 可透過聊天與好友互動。
- 加入好友的歡迎訊息** (Welcome message for new friends): Enabled (toggle on). Description: 當用戶將本帳號加為好友時，可自動傳送訊息內容。 [開啟「加入好友的歡迎訊息」設定畫面](#)
- Webhook**: Enabled (toggle on). Description: 當用戶傳送訊息給本帳號或將本帳號加為好友時，從LINE平台傳送Webhook事件至Webhook網址。 [開啟Messaging API的設定畫面](#)

At the bottom, there are three configuration cards:

- Use webhook**: Enabled (toggle on).
- Auto-reply messages**: Disabled. An 'Edit' button with an external link icon is circled in red, with a red arrow pointing to the '自動回應訊息' (Auto-reply messages) setting in the '回應功能' section.
- 自動回應訊息** (Auto-reply messages): Disabled (toggle off). This setting is also circled in red.

ChatGPT

➤ 掃描QR Code

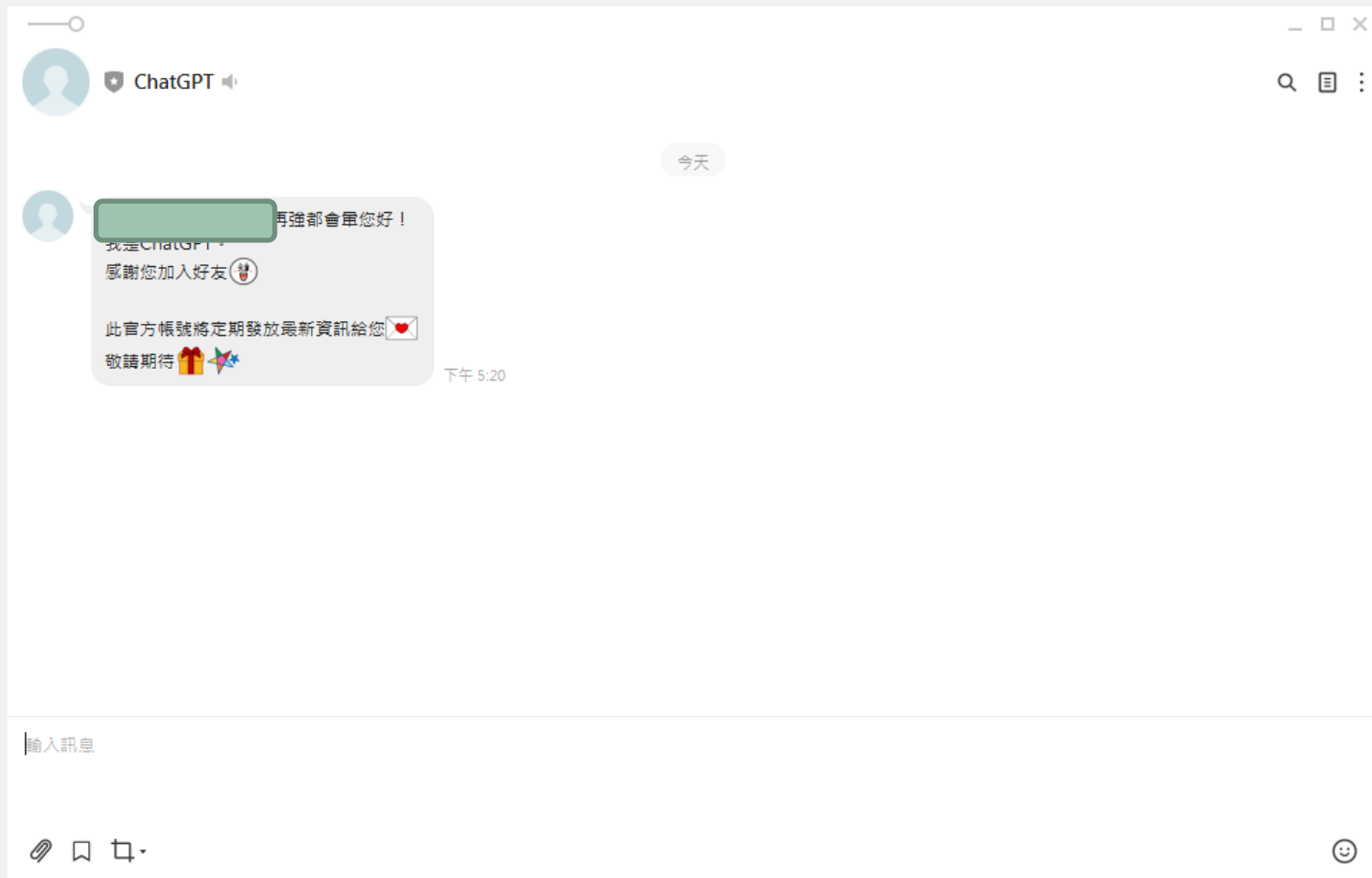

Basic settings **Messaging API** LIFF Security

Messaging API settings

Bot information

Bot basic ID

QR code



ChatGPT

今天

再強都會單您好！

我是ChatGPT
感謝您加入好友 🙌

此官方帳號將定期發放最新資訊給您 📧
敬請期待 🎁🌟

下午 5:20

輸入訊息

📎 🗑️ 🗑️ 😊

ChatGPT

➤ 掃描QR Code

指令

在文字輸入框中直接輸入文字，即可與 ChatGPT 開始對話，而其他指令如下：

指令	說明
<code>/註冊</code>	在輸入框輸入 <code>/註冊</code> + OpenAI API Token，就可以註冊 Token
<code>/系統訊息</code>	在輸入框輸入 <code>/系統訊息</code> + 可以設定希望 ChatGPT 扮演什麼角色
<code>/清除</code>	在輸入框輸入 <code>/清除</code> ，就可以清除歷史訊息
<code>/圖像</code>	在輸入框輸入 <code>/圖像</code> + 指令，就會調用 DALL·E 2 模型，即可生成圖像。
語音輸入	利用語音輸入，系統會自動將語音翻譯成文字，並且 ChatGPT 以文字回應
其他文字輸入	直接輸入文字，則會進入一般的 ChatGPT 對話模式

ChatGPT

The screenshot shows a chat window with the following messages:

- User:** 請先註冊 Token，格式為 /註冊 sk-xxxxx (下午 5:23)
- ChatGPT:** 為什麼要先註冊Token (下午 5:24)
- User:** 請先註冊 Token，格式為 /註冊 sk-xxxxx (下午 5:24)
- ChatGPT:** Token 有效，註冊成功 (下午 5:24)
- User:** /註冊 sk-[redacted] (下午 5:24)
- ChatGPT:** /圖像 美麗的風景 (下午 5:25)
- Image:** A generated image of a coastal town with a beach and blue sky. (下午 5:26)

At the bottom of the image, there are options: 儲存 | 另存新檔 | 分享 | Keep

成功!

ChatGPT

- 但一小時內沒有任何請求系統就會關閉，因此需以下步驟解決
 - 登入/註冊 [CronJob](#)
 - CREATE CRONJOB -> URL (輸入 `https://ChatGPT-Line-Bot.[redacted].repl.co`)

Dashboard

Dashboard

0

enabled cronjobs

Create cronjob

CREATE CRONJOB



COMMON



ADVANCED

Title

ChatGPT-Line-BOT

URL *

`https://ChatGPT-Line-Bot.[redacted].repl.co`



Enable job



Save responses in job history

Execution schedule



Every 5 minute(s)

ChatGPT

```
* Serving Flask app 'main'
* Debug mode: off
WARNING: This is a development server. Do not use it in production
. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:8080
* Running on http://172.31.128.75:8080
```

Press CTRL+C to quit

```
172.31.128.1 - - [09/Apr/2023 08:51:11] "GET / HTTP/1.1" 200 -
```

```
2023-04-09 08:51:28 INFO chatgpt_logger -> U392b6f33ede97824a286b43baf19c08
```

a: Hi

```
172.31.128.1 - - [09/Apr/2023 08:51:32] "POST /callback HTTP/1.1" 200 -
```

```
172.31.128.1 - - [09/Apr/2023 08:53:03] "GET / HTTP/1.1" 200 -
```

```
172.31.128.1 - - [09/Apr/2023 08:54:03] "GET / HTTP/1.1" 200 -
```

