## AI LINE Bot 開發資源

# AILINE Bot 開發流程說明



# AI LINE Bot 開發流程



## AI LINE Bot 開發資源

# **GitHub** 帳號



# GitHub 特點

## ① 版本控制

GitHub 的核心功能就是 Git 版本控制。開發者可以使用它來追蹤他們代碼的 變化,可以隨時回退到任何之前的版本。這對於協作和疑難排解非常有用。

## ② 協作

GitHub 提供了一個平台讓開發者共享他們的項目,並與其他開發者一同合作。 使用者可以對他人的倉庫進行「fork」和「clone」操作,並提交「pull request」以提議對源代碼的修改。

## ③ 問題追蹤

GitHub 的 Issue 功能讓開發者能夠追蹤和管理他們的項目中的問題和任務。 每個 Issue 都可以有自己的討論串,並且可以被指派給特定的人或標記為特定的類型。

## ④ 大量整合

GitHub 可以與許多其他工具和服務進行整合,例如 Slack、Jira、Trello、 Travis CI 等,提供更全面的開發解決方案。





## 申請網址:<u>https://github.com/</u>





# Already have an account? Sign in →

#### Welcome to GitHub!

Let's begin the adventure

#### Enter your email\* Continue -

By creating an account, you agree to the Terms of Service. For more information about GitHub's privacy practices, see the GitHub Privacy Statement. We'll occasionally send you account-related emails.



#### Already have an account? Sign in →

#### Welcome to GitHub!

Let's begin the adventure

#### Enter your email\*

→ school.ccwork@gmail.com

By creating an account, you agree to the Terms of Service. For more information about GitHub's privacy practices, see the GitHub Privacy Statement. We'll occasionally send you account-related emails.



	Already have an account? Sign in →
• Welcome to GitHub! Let's begin the adventure Enter your email* √ school.ccwork@gmail.com	
Create a password <sup>*</sup> → ○ Cd ∞ 使用高強度密碼 9wZ7uxS3rwcGb@M	ontinue
你不需要記住這組密碼,系統會將這組密碼儲存至 school.ccwork@gmail.com的 <u>Google 密碼管理工具</u> 中。	

By creating an account, you agree to the Terms of Service. For more information about GitHub's privacy practices, see the GitHub Privacy Statement. We'll occasionally send you account-related emails.



$\bigcirc$		Already have an account?	Sign in →
	Welcome to GitHub!		
	Let's begin the adventure		
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	Password is strong		
	Make sure it's at least 15 characters OR at least 8 characters including a		
	number and a lowercase letter.		

By creating an account, you agree to the Terms of Service. For more information about GitHub's privacy practices, see the GitHub Privacy Statement. We'll occasionally send you account-related emails.



Welcome to GitHub! Let's begin the adventure

#### Enter your email\*

✓ school.ccwork@gmail.com

#### Create a password\*

/ •••••••••

#### Enter a username<sup>\*</sup>

 $\rightarrow$  ccworkschool

#### ccworkschool is available.

By creating an account, you agree to the Terms of Service. For more information about GitHub's privacy practices, see the GitHub Privacy Statement. We'll occasionally send you account-related emails.







# √ n Verify your account ٠ ٠ ٠

By creating an account, you agree to the Terms of Service. For more information about GitHub's privacy practices,

# (义 收信查看驗證碼,再回去網站輸入驗證碼)

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# **Welcome to GitHub**

We are glad you're here.

This will help us guide you to the tools that are best suited for your projects.

How many team members will be working with you?





# 選擇你感興趣的議題

# The tools you need to build what you want.

### Soup to nuts, GitHub has it all.

# What specific features are you interested in using?

Select all that apply so we can point you to the right GitHub plan.

Collaborative coding

Codespaces, Pull requests, Notifications, Code review, Code review assignments, Code owners, Draft pull requests, Protected branches, and more.



Automation and CI/CD

Actions, Packages, APIs, GitHub Pages, GitHub Marketplace, Webhooks, Hosted runners, Self-hosted runners, Secrets management, and more.

0

 $\Box$ 

Security

Private repos, 2FA, Required reviews, Required status checks, Code scanning, Secret scanning, Dependency graph, Dependabot alerts, and more.

Client Apps



## <u>\*</u>`<u>A</u> A<sup>2</sup>A<sup>2</sup>

# Real-world tools, engaged students.

GitHub gives teachers free access to industry-standard tools for training developers.

#### Free

- > Unlimited public/private repositories
- > 2,000 CI/CD minutes/month Free for public repositories
- > 500MB of Packages storage Free for public repositories

### Get additional teacher benefits

#### **GitHub Team**



#### Protect your branches

Ensure that collaborators on your repository cannot make irrevocable changes to branches.

Draft pull requests





#### **GitHub Classroom**



#### Automate your course

Track and manage assignments in your dashboard, grade work automatically, and help students when they get stuck.

#### **GitHub Campus Advisors**



#### Join a community for teachers

GitHub Campus Advisors master Git and GitHub, and champion the use of real-world tools at their school.

#### Apply for your GitHub teacher benefits

Skip personalization





...

 $\bigcirc$  Use tools of the trade

## AI LINE Bot 開發資源

# LINE 開發者帳號



# LINE Developer 常用服務

## ① LINE Messaging API

讓開發者能夠建立自己的 LINE 機器人,用於與使用者互動。例如, 你可以建立一個客服機器人來自動回答常見問題,或者建立一個購 物機器人來推薦商品。

## ② LINE Login

允許第三方應用使用 LINE 的登入機制,使得使用者可以直接用他們的 LINE 賬戶來登入這些應用。

## ③ LIFF (LINE Front-end Framework)

這是一個讓開發者可以在 LINE 聊天視窗中執行網頁應用的前端框架。 你可以使用它來建立與你的機器人相關的互動應用。

## ④ 各種工具和SDK

LINE Developer 提供了各種工具和SDK · 用於開發和測試你的應用。 這包括用於測試機器人的模擬器 · 以及用於設定你的機器人行為的 管理面板。





## 申請網址: <u>https://developers.line.biz/zh-hant/</u>



Products



# 選擇自己的 LINE 帳號 或 商用帳號

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<u>服務條款</u>等規定,登入後即視為您同意相關 條款內容。

#### ⑦ 關於LINE商用ID

每日日子



	LINE
電子郵件帳號	
密碼	
	登入
	一 使用其他方式登入 ————————————————————————————————————
	NEW 透過行動條碼登入
	忘記電子郵件帳號或密碼?

輸入名稱、Email、並同意條款

### Hi, Silvia.L! Welcome to the LINE Developers Console.

Enter your information and select "Create my account".

You can still change your developer information later.



have read and agreed to the LINE Developers Agreement  $\square$  .



Developer name ②

school.ccwork

✓ Don't leave this empty

✓ Enter no more than 200 characters

Your email 3

#### school.ccwork@gmail.com

- ✓ Don't leave this empty
- ✓ Enter a valid email address
- ✓ Enter no more than 100 characters

I have read and agreed to the LINE Developers Agreement <sup>I</sup>.

✓ Select the checkbox after reading the related document

### Create my account





© LINE Corporation Terms and policies About trademarks Found any problems? Please use our inquiry form 2.

## AI LINE Bot 開發資源

# **OpenAl** 帳號



# **OpenAl API** 特點

## ① 先進的語言模型

OpenAl 的 GPT 系列語言模型是目前最先進的語言生成模型之一。 它能夠理解和生成自然語言,可以用於各種語言處理任務,如問答、 文本生成、文本摘要等。

## ② 易於使用

OpenAl API 提供了一個簡單易用的 HTTP API, 開發者可以輕鬆地 在他們的應用或服務中使用 OpenAl 的模型。OpenAl 也提供了多 種語言的 SDK, 使得開發者能夠更方便地使用該 API。

## ③ 彈性定價

OpenAI API 根據使用者的需求和使用量提供了不同定價方案。這讓 各種規模的公司和組織都能夠根據需要和預算來使用這個 API。

## ④ 安全和隱私

OpenAI 對於使用其 API 的安全和隱私問題非常重視。他們對使用 者的數據進行了嚴格的保護,並且會定期審核他們的安全措施。





## 申請網址:<u>https://platform.openai.com/</u>

S Overview Documenta	tion API reference Examples		Log in Sign up
	GPT-4 API general availability and final update	to the Completions API Learn more X	
	Welcome to the OpenAI	platform	
	Start with the basics		
	Quickstart tutorial	Examples	
	Learn by building a quick sample app	Explore some example tasks	



## **Create your account**

Note that phone verification may be required for signup. Your number will only be used to verify your identity for security purposes.

- Email address

Continue

Already have an account? Log in

- OR

#### G Continue with Google

Continue with Microsoft Account

Continue with Apple



\$

Overview

Documentation API reference

Examples Playground



#### API REFERENCE

Introduction

Authentication

Making requests

Models

Chat

Completions

Images

Embeddings

Audio

Files

Fine-tunes

Moderations

Edits

Parameter details

You can interact with the API through HTTP requests from any language, via our official Python bindings, our official Node.js library, or a **community-maintained library**.

To install the official Python bindings, run the following command:

#### pip install openai

Introduction

To install the official Node.js library, run the following command in your Node.js project directory:

npm install openai

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### Authentication

The OpenAI API uses API keys for authentication. Visit your **API Keys** page to retrieve the API key you'll use in your requests.

## AI LINE Bot 開發資源

# 免費雲端 Server





# 免費雲端 Server 介紹

## ① Vercel

主要專注於前端開發者,特別是Next.js和React的使用者。它提供了一個易於使用、前端導向的平台。

## ② render

提供了一個更廣泛的平台,可以支援各種語言和框架。 這使得Render可以同時處理前端和後端的需求。

## ③ Heroku

則是一個較早提供平台即服務(PaaS)的供應商,它支援多種程式語言,並提供一整套的開發、部署、運行、 監控應用程序的解決方案。



## 免費雲端 Server

# Vercel





## 申請網址: <u>https://vercel.com/</u>



Vercel's frontend cloud gives developers the frameworks, workflows, and infrastructure to build a faster, more personalized Web.



Get a Demo



### Vercel

## Create Your Vercel Account

#### Hobby

I'm working on personal projects

Pro

I'm building commercial projects

By joining, you agree to our Terms of Service and Privacy Policy

Have a complex company use case? Get enterprise-grade assistance



### Vercel

 $\sim$ 

Hobby

I'm working on personal projects

Pro

I'm building commercial projects

#### Your Name

Creator Training School

Continue

By joining, you agree to our Terms of Service and Privacy Policy

Have a complex company use case? Get enterprise-grade assistance



### Vercel

Contact Log In

## Let's connect your Git provider



By joining, you agree to our Terms of Service and Privacy Policy

Have a complex company use case? Get enterprise-grade assistance















### Verification

Please enter your phone number to verify your login. You will receive a single use code to submit.

▼ +886

We won't ever message you — other than for verification purposes.

Continue

收到手機簡訊的驗證碼後,輸入下方四碼



### Verification

Log In

Contact

A code has been sent to **+886 921 968 706**. Enter it below to complete your sign up.







Feedback Help

## Û

## Let's build something new.

To deploy a new Project, import an existing Git Repository or get started with one of our Templates.

<u>0</u> +	Coll	abo	rate	with	a '	Team
<b>C</b>		000	ate	WICH	G	Cam

Import Git Repository	
Select a Git Namespace	Q Search
You're	Almost There
Select a GitHub account or orga	anization on the top left to see your Git
reg	positories.

### **Clone Template**



## 免費雲端 Server

# render





## 申請網址:<u>https://render.com/</u>





## Sign up for Render

	OR	
Email		
your@email.cc	om	

#### Password

correct horse battery staple

Email me about Render product updates

COMPLETE SIGN UP















## Sign up for Render

One last step — please confirm your email below.

Email

school.ccwork@gmail.com

Email me about Render product updates

COMPLETE SIGN UP

By signing up you agree to our terms of service.



## 🐉 Almost there!

We've sent you an email at school.ccwork@gmail.com

Please follow the instructions in the email.

**RESEND VERIFICATION EMAIL** 

	收信點	擊啟用連結					
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<ul> <li>☆ 已加星號</li> <li>① 已延後</li> <li>▶ 寄件備份</li> <li>□ 草稿</li> <li>▼ 更多</li> </ul>	10	Render <no-reply@render.com> 寄給我 ▼ Hi there, Thank you for signing up for Render. Click on the link below to verify your email: <u>https://dashboard.render.com/email-confirm/?token=ZLo9snVzci1jaXNlb2NsZ2t1dmdzNnlwNmjnpdPJW56&amp;next=/</u></no-reply@render.com>	下午4:11 (1 分鐘前) <mark>J2RhZ3LYgMROVQhRfTjvZfZzDRux7</mark> s	☆ SV1uLSe	<u>بان</u>	:	<ul> <li>⊘</li> <li>▲</li> <li>+</li> </ul>
標籖	+	This link will expire in 24 hours. If you did not sign up for a Render account, you can safely ignore this email. Best, The Render Team					



render

Dashboard

Blueprints Env Groups Docs

Help Community

New

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### Get started in minutes

Static Sites

Static Sites are automatically served over a global CDN. Add a custom domain and get free, fullymanaged SSL.

New Static Site

#### Web Services

Web Services include zerodowntime deploys, persistent storage and PR previews. Scale up and down with ease.

New Web Service

PostgreSQL

Fully-managed hosted PostgreSQL with internal and external connectivity, and automated daily backups.

**Private Services** 

Private Services are only accessible within your Render network and can speak any protocol.

New Private Service

----Redis

A cloud based in-memory key value datastore. Render offers fully managed hosted Redis instances.

**Background Workers** 

Background Workers are suitable for long running processes like consumers for queues and streaming.

New Worker

**Blueprints** 

A **Blueprint** specifies your Infrastructure as Code in a single file. Use it to set up all your services at once.

**Cron Jobs**  $\bigcirc$ 

With Cron Jobs, you can schedule any command or script to run on a regular interval.

## 免費雲端 Server

# Heroku





## 申請網址:<u>https://www.heroku.com/</u>

## Salesforce Developers / Heroku HEROKU Products V Marketplace V Pricing Documentation Support More V Q Log in or Sign up SPOTLIGHT Data on Heroku Build data-driven apps with fully managed data services. Sign Up **Explore Managed Data Services**



### Heroku account

Create apps, connect databases and add-on services, and collaborate on your apps.

### Your app platform

A platform for apps, with app management & instant scaling, for development and production.

### Deploy now

Go from code to running app in minutes. Deploy, scale, and deliver your app to the world.

First name *	
First name	
Last name *	
Last name	
Email address *	
Email address	
Company name	
Company name	
Role *	
Role	\$
Country/Region *	
Country/Region	\$
Primary development language *	
Select a language	\$



Salesforce Developers / Heroku



#### Log in to your account

1	Email address
ISSW	ord
4	Password
	Log In
	New to Heroku? <u>Sign Up</u>



Salesforce Developers / Heroku



#### Log in to your account

1	school.ccwork@gmail.com
ssw	ord
۵	••••••
	Log In
	Log In
	Log In
	Log In New to Heroku? <u>Sign Up</u>





### 註冊驗證方式

#### 選取要註冊的驗證方式。



Salesforce Authenticator 將您的帳戶與 Salesforce Authenticator 連線。

#### 

與產生驗證碼的 Authenticator 應用程式連線。

◆ 全金鑰 將安全金鑰與您的帳戶連線。

# 「一下載 Salesforce Authenticator,取得驗證碼



把手機上的「雙字片語」,輸入在網頁上



#### 連線 Salesforce Authenticator

使用 Salesforce Authenticator 來驗證您的身分和機密交易。 Authenticator 是免費的應用程式,可在 iOS 或 Android 行動裝置上執 行。

1. 從 App Store 或 Google Play 下載 Salesforce Authenticator 並將其安 裝在您的行動裝置上。

連線

2. 開啟應用程式,然後按一下「新增帳戶」

取消

3. 應用程式便會顯示唯一的雙字片語。輸入片語。

雙字片語





### 驗證您的身分

使用 Salesforce Authenticator 來批准要求。



沒收到通知嗎?

手機上按「使用者名稱」,出現數字時即驗證成功







A payment method is required to build, deploy, and run apps.

Add payment method

Create your first app and deploy your code to a running dyno.

Create new app

Create a team Create teams to collaborate on

your apps and pipelines.

Create a team

## AI LINE Bot 開發資源

# 課後練習



- ① 申請:Github 帳號
- ② 申請:免費雲端 Server
  - Vercel 帳號
  - render 帳號
  - Heroku 帳號
- ③ 申請:LINE 開發者帳號
- ④ 申請: OpenAI 帳號

