

bot framework與LUIS



陳葵懋 lan Chen

http://codeian.idv.tw/

codeian.idv.tw



- Microsoft MVP
- ▶ TechDays Taiwan 2014 / 2015講師
- ▶ 2015 微軟實戰課程日講師
- ▶ Channe 9線上課程講師
- ▶ K.NET & Study4.TW社群講師
- ▶ HTML5 & JavaScript 程式開發實戰書籍共同作者
- ▶ Microsoft MSDN 技術文章作者



Agenda

- bot framework
- facebook message + bot
- **LUIS**
- Q&A



軟銀服務型機器人Pepper進軍台灣

亞太電信與沛博科技聯手引進日本軟體銀行設計的服務型機器人 Pepper,鎖定企業市場,採租賃方式開放國內企業租用,民眾未來將有 機會在家樂福、台新銀行、第一銀行、國泰人壽等與Pepper互動。

┢ 讚 3 萬 按讚加入iThome粉絲團

→ 讚 632 分享

G+1 3

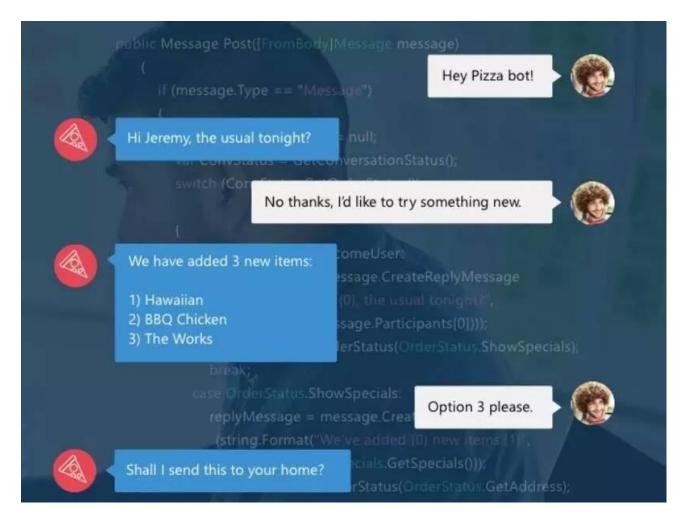
文/蘇文彬 2016-07-25 發表



消費者互動服務Robot Talking for Pepper 以語言、肢體動作與消費者 進行互動

bot framework

- ▶ Build 2016 推出
- conversation as a platform
- easy build your bots service



對談式bot

- 對談服務
- ▶ 使用者UI
- ▶ 語意分析



bot framework

Your Bot Framework Bot



Tools and services to build great bots that converse wherever your users are.

- Open source SDK on Github for Node.js, .NET and REST
- From simple built-in prompts and command dialogs to simple to use yet sophisticated 'FormFlow' dialogs
- Support for rich attachments (image, card, video, doc, etc.); support for calling (Skype)
- Online/offline chat Emulator
- Add bot smarts with Cognitive Services for language understanding and more



Developer Portal

Connect your bots to text/sms, Skype, Slack, Facebook Messenger, Office 365 mail and other channels.

- Register, connect, publish and manage your bot through your bot's dashboard
- Automatic card normalization across channels
- · Skype channel auto-configured
- · Embeddable Web chat control
- Host your bot in your app via the Direct Line API
- Fast, scalable message routing
- Diagnostic tools





Bot Directory

Try, use, and add published bots to the world's top conversation experiences.

- Public directory of bots registered and published with Microsoft Bot Framework
- Users can try your bot from the directory via the Web chat control
- Users can discover and add your bot to the channels on which it is configured when the Directory is made public to end users

coming soon

bot connector (機器人連接器)

Channels

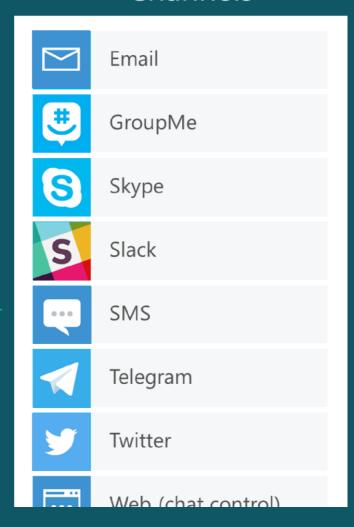
Bots

Bot Connector

Your bot's Web Service **Bot Connector**

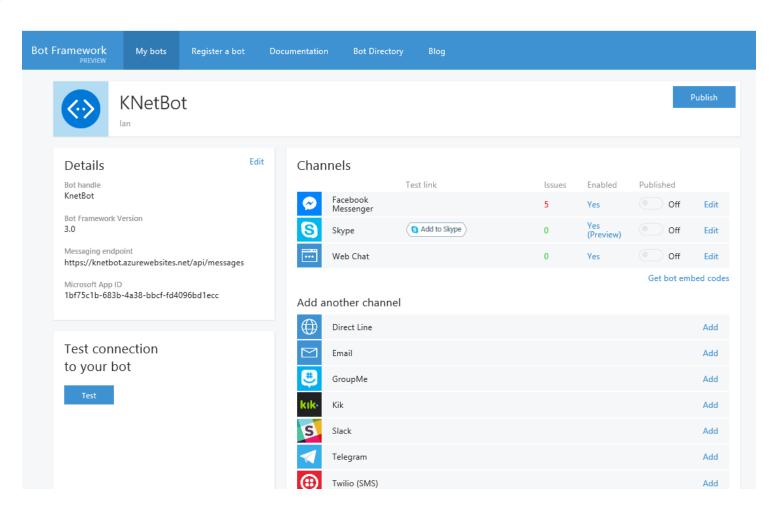
Send/receive messages
Store state
Translation
Telemetry

• • •



bot dev portal

- Register bot
- Configure Channel
- Test
- Manage



LUIS - 語意分析

- Language Understanding Intelligent Service
- 分析識別用戶端的語意

Language Understanding Intelligent Service (LUIS) offers a fast and effective way of adding language understanding to applications. With LUIS, you can use pre-existing, world-class, pre-built models from Bing and Cortana whenever they suit your purposes -- and when you need specialized models, LUIS guides you through the process of quickly building them.

LUIS draws on technology for interactive machine learning and language understanding from Microsoft Research and Bing, including Microsoft Research's Platform for Interactive Concept Learning (PICL). LUIS is a part of a project of Microsoft Cognitive Services.



FaceBook Message bot

FaceBook

- 建立粉絲團
- ▶ Facebook dev 建立APP
 - https://developers.facebook.com/



FaceBook

我的應用程式 ▼



- a 🔯 KNetBot
 - AzureMobileApps
 - AzureDemo2
 - MobielService
 - GlobalAzureBootCamp...
 - TestSocialAuth

新增應用程式

Add a New App

Select a platform to get started

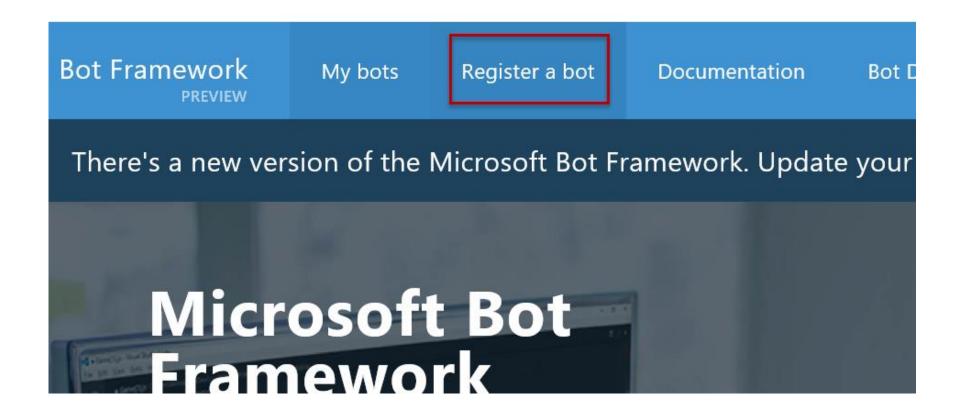


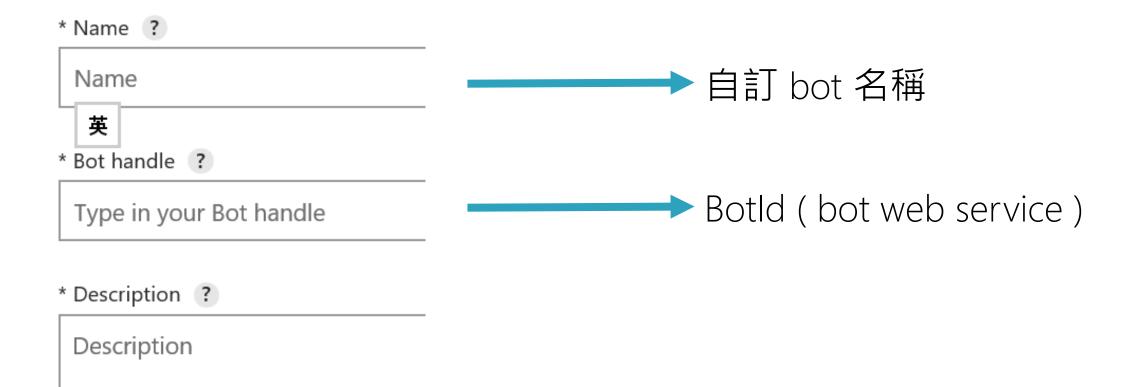






https://dev.botframework.com/







Configuration

Messaging endpoint ?

https URL

* Microsoft App ID ?

Microsoft App ID from the Microsoft App registration portal

Create Microsoft App ID and password

產生 App 識別碼及密碼

應用程式名稱



Publisher profile

* Publisher name Your company name * Publisher Email kmcchen@seed.net.tw * Privacy statement URL to bot's privacy statement * Terms of Use URL to bot's Terms of Use

發佈者基本資訊以及隱私權聲明的URL

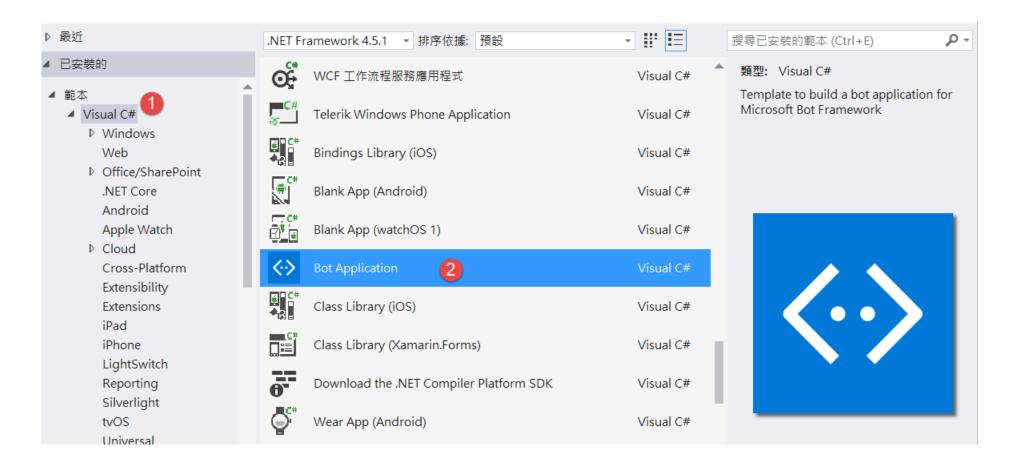
bot Service

- Visual Studio 2015 with Update3
- download bot project template
 - http://aka.ms/bf-bc-vstemplate
 - %USERPROFILE%\Documents\Visual Studio
 2015\Templates\ProjectTemplates\Visual C#
- Azure Account



bot Service

Create bot project



bot Service

- Create bot project
- Modify web.config
- Publish to Azure Web APP

連接bot與bot Service

Configuration

Messaging endpoint ?

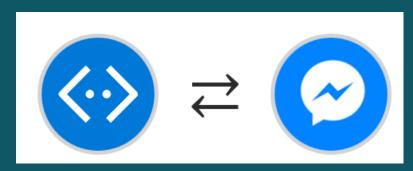
HTTPS Rest endpoint that the bot implements to send and receive messages.

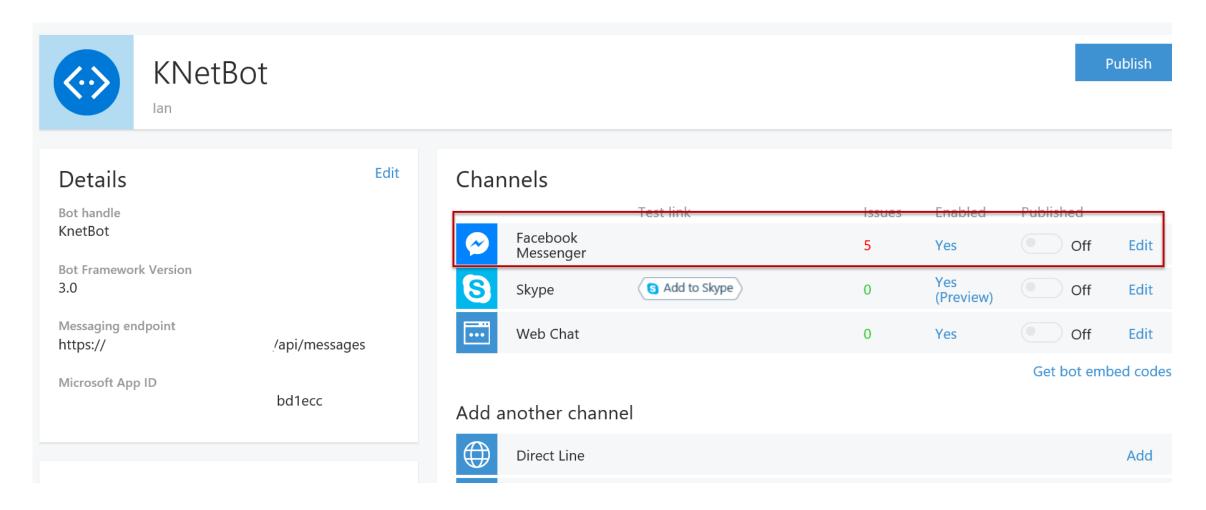
https URL

Describe your bot here and your terms of use etc.

Visit Bot Framework to register your bot. When you register it

https://your_bots_hostname/api/messages





Credentials have been validated.				
Facebook Page Id				
Facebook App Id				
Facebook App Secret				
Page Access Token				

Facebook Page Id



	我們熱愛技術,但不盲從。 我們重視分享,但不造神。
創立時間	+ 輸入粉絲專頁成立日期
獎項	+ 輸入獎項
商品	每週三常態性聚會活動 (於星 期舉辦小型研討會。
電子郵件	regionbbs@gmail.com
網站	http://knet.io
官方粉絲專頁	輸入和粉絲專頁相關的官方品
Facebook 專頁編號	759

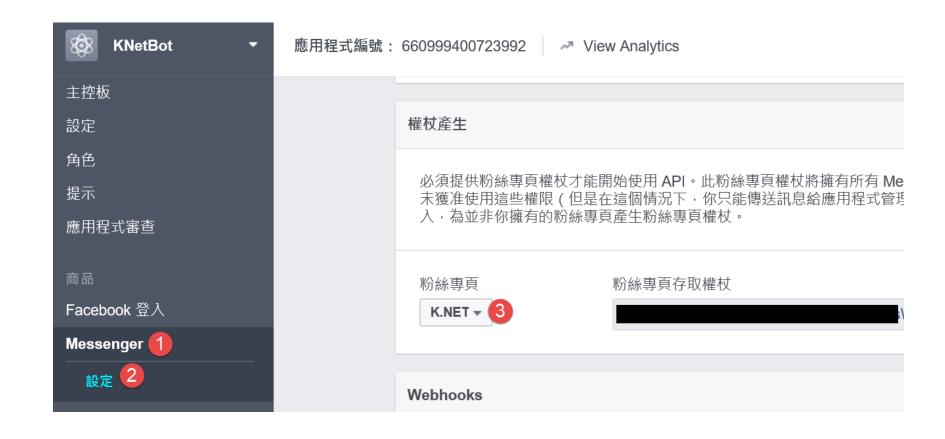
Facebook App Id



Facebook App Secret

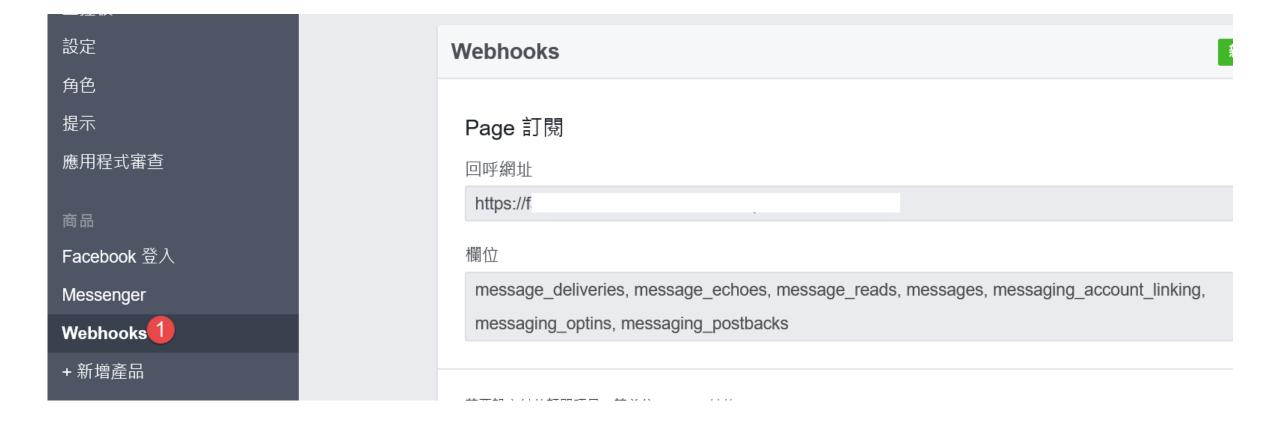


Page Access Token



Credentials have bee	n validated.	
Facebook Page Id	7	
Facebook App Id	-	
Facebook App Secret	80	db
Page Access Token	E	pFk
1	Resubmit	

Bot Dev Portal dashboard → Edit → Set webhook callback url and verify token



Test Your Bot

盧宏翊和其他 3 人都覺得你的連結很讚:「今天是星期三,礼



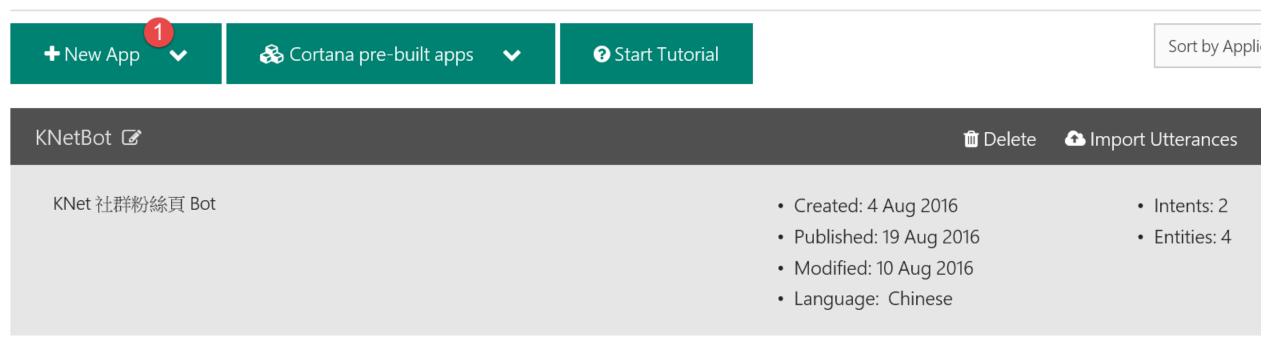
語意分析 - LUIS

- Microsoft 推出的語意分析服務
- 透過訓練可以分析用戶語意,建立互動的自然語言 對話
- https://www.luis.ai/



Create New App

My Applications



- Intents
 - 。用戶語意意向分類
- Entities
 - 。用戶語言文字項目分類

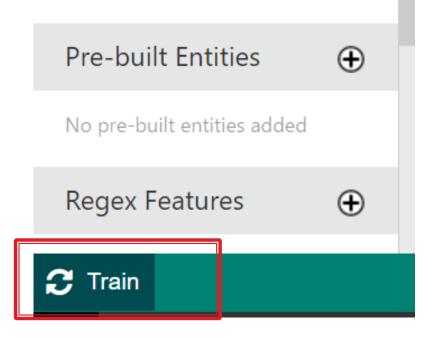


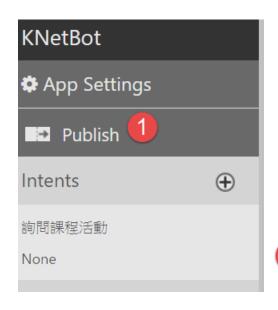


New utterances Search Suggest Review labels

下個月有什麼課程







HTTP service

Publish Current Application to URL for access

Status: Published on 2016/8/19 下午3:03:36

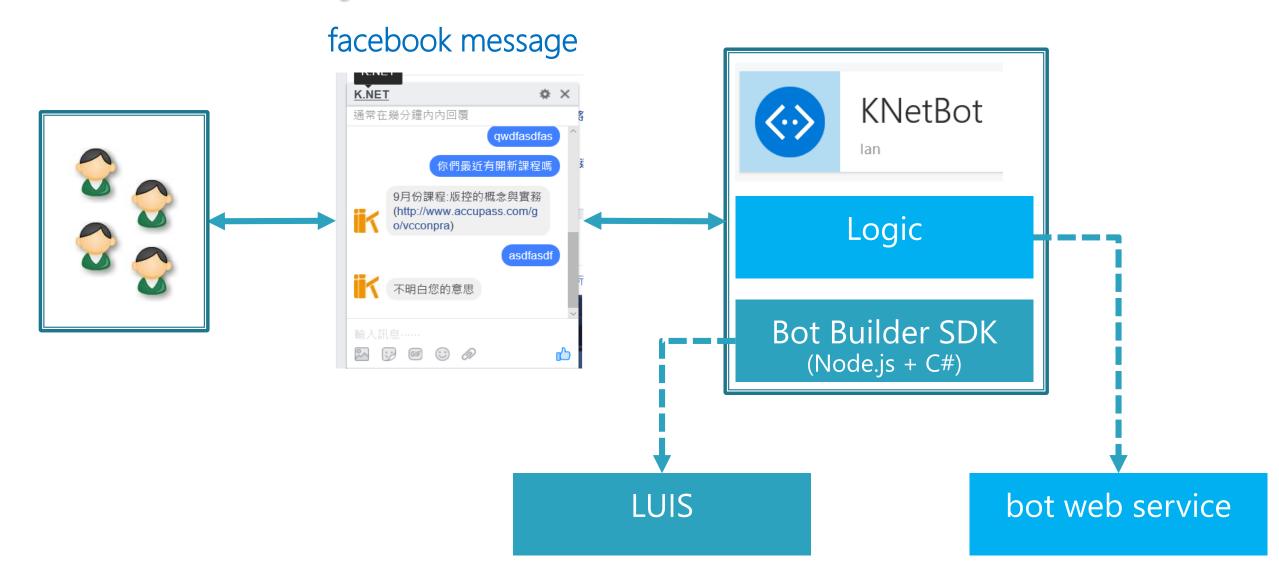
Query: 下個月會開課嗎? 2

URL: https://api.projectoxford.ai/luis/v1/application?id=c96 key=b7c88a2066c84922aaffd74e0cb71582&q=%E4%B8%8

```
"query": "下個月會開課嗎?",
"intents": [
    "intent": "詢問課程活動",
   "score": 0.82152,
    "actions": [
       "triggered": true,
       "name": "詢問課程活動",
       "parameters": [
           "name": "請問",
           "required": false,
           "value": null
           "name": "課程",
           "required": false,
           "value": null
           "name": "活動".
```

Bot + LUIS

Summary



A&Q

參考資源

- https://channel9.msdn.com/Events/Build/2016/B821
- https://dev.botframework.com/
- https://www.luis.ai/

