

機器人主動推送通知

學習目標：

- 在 Flask 上，寫一個網頁，防止 Heroku 主機休眠！
- 寫一個定時推送通知的 Line Bot 機器人程式！

寫個簡易的 Flask 小網頁

1. 修改 app/router.py 的內容

```
(前方省略....)
from flask import render_template

# 設定預設網頁
@app.route("/")
def home():
    return render_template("home.html")
(後方省略....)
```

2. 在專案目錄 LineBot 下，建立 app/templates/home.html 的 HTML 檔案：

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>MyLineBot</title>
</head>
<body>
    <h1>Hello, World</h1>
</body>
</html>
```

3. 將專案推向 Heroku 主機....

4. 打開瀏覽器，輸入<http://你的專案.herokuapp.com/>

定時推送通知的機器人程式

1. 安裝 APScheduler

```
C:\> pip install APSchedule
```

2. 在專案目錄中，寫一個 timer.py 的時鐘程式

```
from apscheduler.schedulers.blocking import BlockingScheduler
import urllib.request

scheduleEvent = BlockingScheduler()
```

```
@scheduleEvent.scheduled_job('cron',day_of_week='mon-fri',minute='*/20')
def scheduled_job():
    website = "https://mylinebothellotux.herokuapp.com/"
    connection = urllib.request.urlopen(website)

    for i, value in connection.getheaders():
        print(i,value)

scheduleEvent.start()
```

3. 修改 Procfile 檔案內容

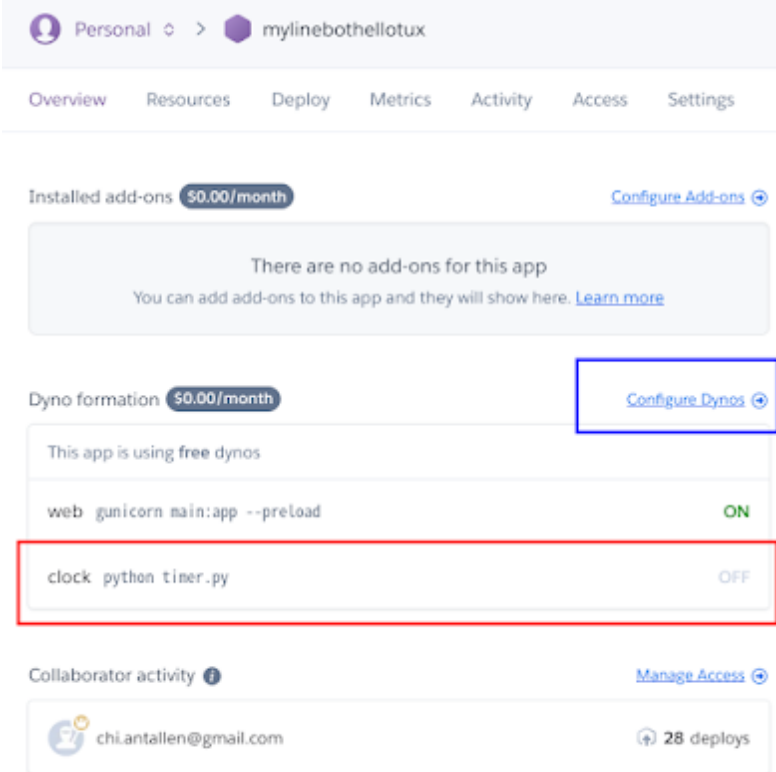
```
web: gunicorn main:app --preload
clock: python timer.py
```

4. 修改 requirements.txt 檔案內容

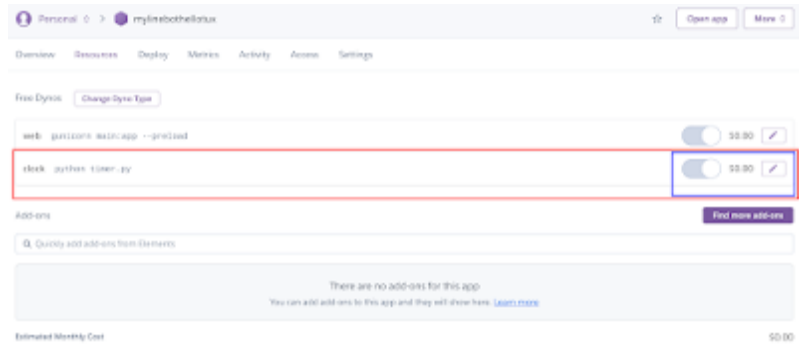
```
Flask>=1.1.1
gunicorn>=20.0.4
line-bot-sdk>=1.15.0
APScheduler>=3.6.1
```

5. 上傳專案到 heroku

6. 修改 Heroku 的設定值



The screenshot shows the Heroku dashboard for the application 'mylinebothellotux'. The top navigation bar includes links for Overview, Resources, Deploy, Metrics, Activity, Access, and Settings. Below this, the 'Installed add-ons' section shows a total cost of \$0.00/month and a 'Configure Add-ons' link. A message states 'There are no add-ons for this app'. The 'Dyna formation' section shows a total cost of \$0.00/month and a 'Configure Dynos' link. It lists two processes: 'web' (gunicorn main:app --preload) which is 'ON', and 'clock' (python timer.py) which is 'OFF'. The 'Collaborator activity' section shows a user 'chi.antallen@gmail.com' with 28 deployments.



7. 建立主動推送通知的方式：

```
line_bot_api.push_message(to, TextSendMessage(text='Morning Sir'))
```

8. 修改成需要的樣子：linebotmodules.py

(前方省略....)

```
except:
    #hello_text = echo(event.message.text)
    line_bot_api.push_message(
        '你的 User ID',
        TextSendMessage(text='沒找到')
    )
```

9. 推送上 Heroku ！

10. 在手機 line 上，輸入任何一個句子！