

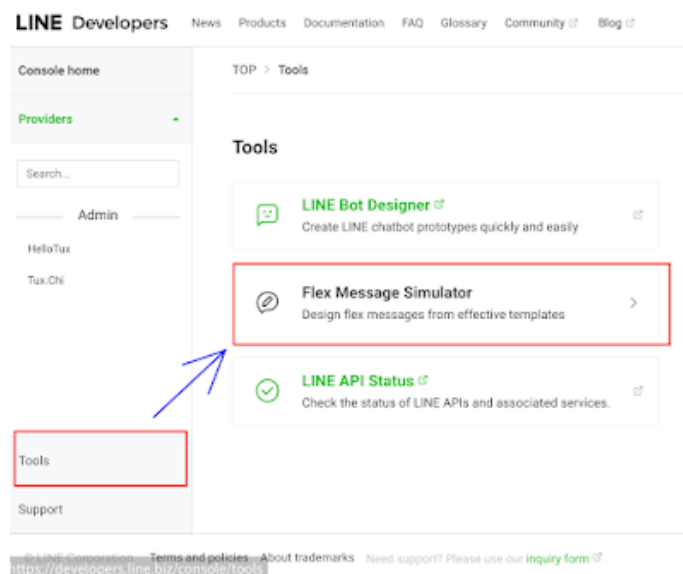
Line Bot 上的 FlexMessage 用法

學習目標：

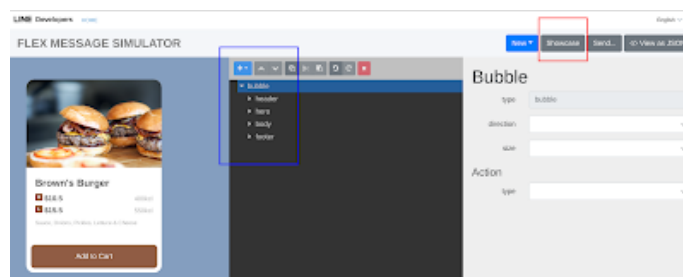
- 了解 Line Bot 上的 FlexMessage 用法！
- 設定 FlexMessage 連結 Line Bot 機器人資料庫！

產生 FlexMessage 程式碼

1. 登入 Line Developers ，查看 Flex Message Simulator



2. 利用「Showcase」選擇自己想要的範例！利用「View as JSON」可以查看檔案內容！



3. 新增 app/flexmodules 子目錄，方便存放 Flex Message 程式！
4. 利用 Python 程式，產生所需要的 JSON 檔案格式，傳送給 Line 平台！

例：flexmessages.py

```
def fleximage(url):  
    return { "type": "image",  
            "url": url,  
            "size": "full",  
            "aspectRatio": "20:13",  
            "aspectMode": "cover" }
```

```

def flextext(text, size, color, weight='regular', wrap=False):
    return { "type": "text",
            "text": text,
            "size": size,
            "color": color,
            "weight": weight,
            "wrap": wrap }

def flexlogo(text='大學麵店'):
    return flextext(text, size='md', color='#066BAF', weight='bold')

def flextitle(text):
    return flextext(text, size='xl', color='#066BAF', weight='bold')

def flexhead(text):
    return flextext(text, size='xl', color='#555555')

def flexnote(text):
    return flextext(text, size='md', color='AAAAAA', wrap=True)

def flexseparator(margin='xl'):
    return { "type": "separator", "margin": margin }

def flexbutton(label, data, display_text):
    return { "type": "button",
            "action": {
                "type": "postback",
                "label": label,
                "data": data,
                "display_text": display_text },
            "style": "link",
            "color": "#066BAF",
            "height": "sm" }

def flex_index():
    hero_url = "https://scdn.line-apps.com/n/channel_devcenter/img/fx/01_2_restaurant.png"
    bodys = [flexlogo(),
            flextitle('歡迎光臨'),
            flexseparator(),
            flexhead('菜單列表'),
            flexnote('# 查詢所有資料'),
            flexseparator()]
    footers = [flexbutton('菜單列表', '菜單', '菜單列表'),
            flexbutton('單項查詢', '單項', '單項菜單查詢') ]

    FlexMessage = { 'type': 'bubble',
                    'hero': fleximage(hero_url),
                    'body': {
                        'type': 'box',
                        'layout': 'vertical',
                        'spacing': 'md',
                        'contents': bodys},
                    'footer': {
                        'type': 'box',
                        'layout': 'vertical',
                        'contents': footers}}

    return FlexMessage

```

5. 新增程式 app/flexmodules/flextalks.py ，回應 line bot 平台的訊息！

```

from app.flexmodules import flexmessages
from linebot.models import FlexSendMessage

```

```

from app import line_bot_api, handler

def query_menu(event):
    if '菜單查詢' in event.message.text:
        line_bot_api.reply_message(
            event.reply_token,
            FlexSendMessage(alt_text='query record: index',contents=flexmessages.flex_index())
        )
        return True
    else:
        return False

```

6. 修改 app/linebotmodules.py 裡的程式，加上呼叫 flextalks.py 的程式！

```

(前面略過....)
    replay = False

    if not replay:
        reply = flextalks.query_menu(event)
(後面略過....)

```

7. 上傳至 Heroky 專案內！進行測試！

製作 PostbackEvent 程式碼

1. 修改 app/linebotmodules.py 裡的程式！在最後一行加上下列程式碼：

```

(前面略過....)
# line 回應的訊息
@handler.add(PostbackEvent)
def handle_postback(event):
    print(event)
    flextalks.query_menu_back(event)

```

2. 修改程式 app/flexmodules/flextalks.py，import 資料庫連結程式，並加入回應 line bot 平台的訊息！

```

(前面略過....)
from app import line_bot_api, handler
from app.dataSQL import connectDB
(中間略過....)
def query_menu_back(event):
    query = event.postback.data
    print(query)
    if '=' in query:
        print(query.split('=')[1])
        data = connectDB.queryItem(query.split('=')[1])
        menu_name = [i[2] for i in data]
        line_bot_api.reply_message(
            event.reply_token,
            FlexSendMessage(
                alt_text=f"query record: column {query}",
                contents= flexmessages.flex_menu_prize(query,menu_name)
            )
        )
        return True
    elif '菜單' in query:
        data = connectDB.showallMenu()
        menu_name = [i[1] for i in data]
        line_bot_api.reply_message(
            event.reply_token,

```

```

        FlexSendMessage(
            alt_text=f"query record: column {query}",
            contents= flexmessages.flex_menu(query,menu_name)
        )
    )
    return True
else:
    return False

```

3. 修改程式 app/flexmodules/fflexmessages.py，在檔案最後面，加上下列程式：

```

(前面略過....)
def flex_menu(keywords, data):
    bodys = [flexlogo(),
              flextitle(f'{keywords}'),
              flexseparator()]

    footers = [flexbutton(f"{i}",f"{keywords}={i}",f"查詢 {i}") for i in data]

    FlexMessage = {'type': 'bubble',
                    'body': {
                        'type': 'box',
                        'layout': 'vertical',
                        'spacing': 'md',
                        'contents': bodys},
                    'footer': {
                        'type': 'box',
                        'layout': 'vertical',
                        'contents': footers}}
    return FlexMessage

def flex_menu_prize(keywords, data):
    keyword = keywords.split('=')[1]
    bodys = [flexlogo(),
              flextitle(f'{keyword}'),
              flexseparator(),
              flexnote(f'價格:{data}'),
              flexseparator()]

    footers = [flexbutton("菜單查詢","菜單查詢","菜單列表")]

    FlexMessage = {'type': 'bubble',
                    'body': {
                        'type': 'box',
                        'layout': 'vertical',
                        'spacing': 'md',
                        'contents': bodys},
                    'footer': {
                        'type': 'box',
                        'layout': 'vertical',
                        'contents': footers}}
    return FlexMessage

```

4. 修改 app/dataSQL/connectDB.py，加入單項查詢的資料庫語法：

```

(前面略過....)
def queryItem(keyword):
    DATABASE_URL = os.environ['DATABASE_URL']
    connection_db = psycopg2.connect(DATABASE_URL,sslmode='require')
    cursor = connection_db.cursor()
    SQL_cmd = f"\"SELECT * FROM menu WHERE menuname = %s;\""
    cursor.execute(SQL_cmd,[keyword])
    connection_db.commit()

```

```
    rows = cursor.fetchall()
    data = []
    for row in rows:
        data.append(row)

    cursor.close()
    connection_db.close()
    return data
(後面略過....)
```

5. 上傳 Heroku 專案後，進行測試！