[https://programminghistorian.org/en/lessons/creating-apis-with-python-and-flask#documentation-and-examples](https://programminghistorian.org/en/lessons/creating-apis-with-python-and-flask%23documentation-and-examples)

execute：to anaconda prompt-->(base)

a) cd C:\Users\Brian\projects

b) python api.py

quit :

in prompt : type ctrl + C

in spyder console : right click “quit”

* jsonify -- > convert python list or dict to json format
* ex :

@app.route(“/yourPath”,methods = [“GET”])

def yourFunc()

………………

return result

1. 當呼叫yourFunc時，會將/yourPath 映射(map) 到http://127.0.0.5000 --> <http://127.0.0.5000/yourPath>
2. 當我們連上<http://127.0.0.5000/yourPath>，函數return 的result為我們在該連結上看到的結果

* Ex:

books = [

{'id': 0,

'title': 'A Fire Upon the Deep',

'author': 'Vernor Vinge',

'first\_sentence': 'The coldsleep itself was dreamless.',

'year\_published': '1992'},

{'id': 1,

'title': 'The Ones Who Walk Away From Omelas',

'author': 'Ursula K. Le Guin',

'first\_sentence': 'With a clamor of bells that set the swallows soaring, the Festival of Summer came to the city Omelas, bright-towered by the sea.',

'published': '1973'},

{'id': 2,

'title': 'Dhalgren',

'author': 'Samuel R. Delany',

'first\_sentence': 'to wound the autumnal city.',

'published': '1975'}

]

@app.route('/api/v1/resources/books', methods=['GET'])

def api\_id() :

part1

if "id" in request.args :

id = int(request.args['id'])

else :

return "Error : please specify book id"

part2

for book in books :

if book["id"] == id :

return jsonify(book)

return jsonify(list())

part1: 如果輸入的網頁中沒有id🡪 "Error : please specify book id"

若有id,執行part2

查找list中內是否有key == id的字典若有則回傳，沒有則回傳空list

有效回傳：

1. <http://127.0.0.1:5000/api/v1/resources/books?id=0>
2. <http://127.0.0.1:5000/api/v1/resources/books?id=1>
3. <http://127.0.0.1:5000/api/v1/resources/books?id=2>

無符合id:

1. <http://127.0.0.1:5000/api/v1/resources/books?id=10>

報錯(網址中沒有id)

1. <http://127.0.0.1:5000/api/v1/resources/books>

?-->query parameters. They’re a feature of HTTP used for filtering for specific kinds of data.

* 注意事項

1. White space(“ “) in http request must be replaced by “+”