

Python Flask Tutorial: Full-Featured Web App Part 1

Flask

목차

- ▶ Getting Started

1. Getting Srarted

Install flask

```
(flask) C:\Users\whclee>pip install flask
Requirement already satisfied: flask in c:\Users\whclee\anaconda3\envs\flask\lib\site-packages (1.1.2)
Requirement already satisfied: itsdangerous>=0.24 in c:\Users\whclee\anaconda3\envs\flask\lib\site-packages (from flask) (1.1.0)
Requirement already satisfied: Jinja2>=2.10.1 in c:\Users\whclee\anaconda3\envs\flask\lib\site-packages (from flask) (2.11.2)
Requirement already satisfied: click>=5.1 in c:\Users\whclee\anaconda3\envs\flask\lib\site-packages (from flask) (7.1.2)
Requirement already satisfied: Werkzeug>=0.15 in c:\Users\whclee\anaconda3\envs\flask\lib\site-packages (from flask) (1.0.1)
Requirement already satisfied: MarkupSafe>=0.23 in c:\Users\whclee\anaconda3\envs\flask\lib\site-packages (from Jinja2>=2.10.1->flask) (1.1.1)

(flask) C:\Users\whclee>python
Python 3.6.10 |Anaconda, Inc.| (default, May 7 2020, 19:46:08) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import flask
>>> exit()

(flask) C:\Users\whclee>
```

Conda create -n 가상폴더명 python=3.6 anaconda
설치하면 flask도 같이 설치되어 있음
작업할 디렉토리도 하나 만들어줍니다.

1. Getting Started

Graph terminology

flaskblog.py ✕

```
1 > flaskblog.py > hello
1  from flask import Flask
2  app = Flask(__name__)
3
4  @app.route('/')
5  def hello():
6      return 'Hello World!'
```

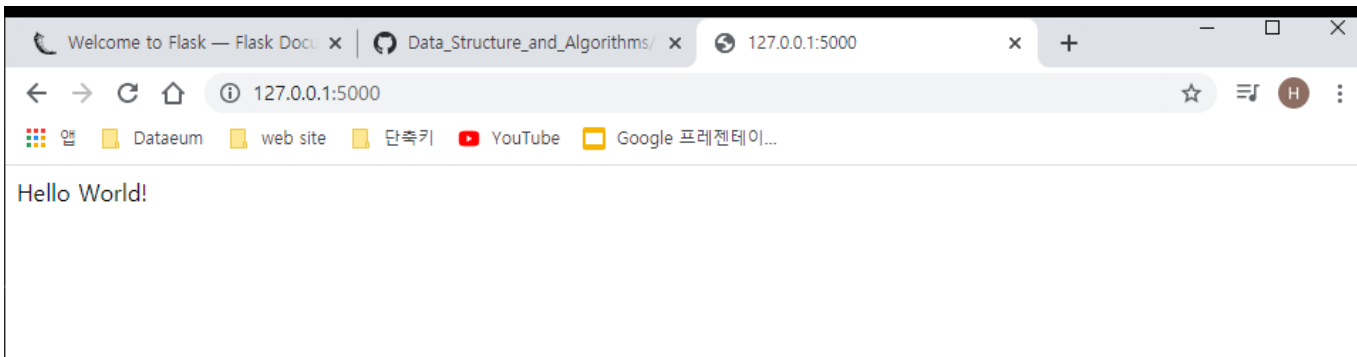
```
hcleee@DESKTOP-6GF025B MINGW64 /d/github/Flask/1
$ export FLASK_APP=flaskblog.py
```

- Flask class를 import
- Setting Flask class
- __name__ : passing
- Create route : 브라우저가 인식 할 경로
- 예를 들어, 웹사이트에 방문했을때 about이나 contact같은 페이지로 가는 경로를 만듭니다.
- Cmd에서 mac이나 linux에서는
- export FLASK_APP=flaskblog.py 입력
- set FLASK_APP=flaskblog.py
- export는 환경변수를 쓰는것
- echo는 출력하는것

1. Getting Started

Graph terminology

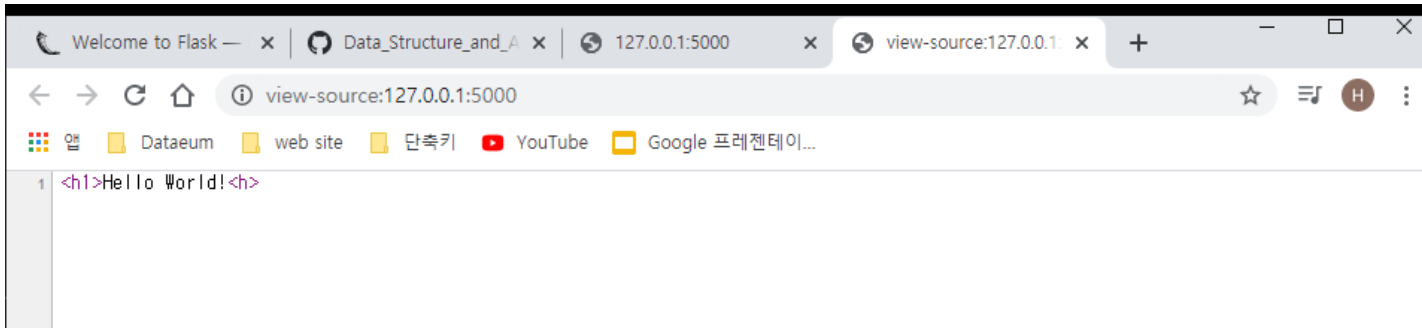
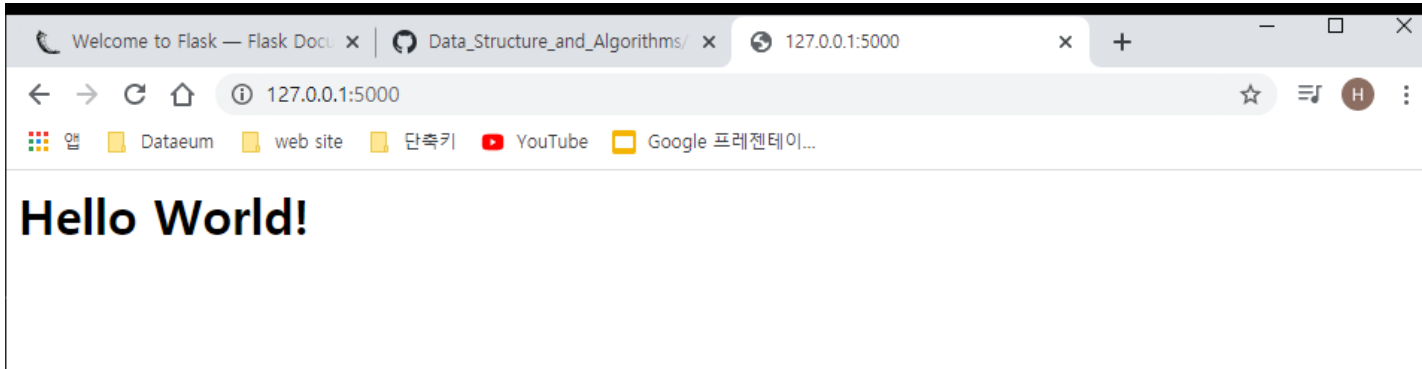
```
hcllee@DESKTOP-6GF025B MINGW64 /d/github/Flask/1
$ flask run
* Serving Flask app "flaskblog.py"
* Environment: production
  WARNING: This is a development server. Do not use it in a
  production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```



- Flask run으로 실행
- Error가 없으면 127.0.0.1에서 앱프로그램이 실행되고 있다.
- IP는 local address고 port: 5000
- IP주소 대신에 localhost:5000으로 접속 가능

1. Getting Started

Graph terminology



- Return 'Hello World'
 - Return '<h1>Hello World</h1>'
 - 로 수정을 하게 되면
 - 웹페이지에서 새로그침을 해도 바뀌지 않는다
 - 터미널로 들어와 종료(Ctrl+c)를 하고 다시 flask run을 해서 새로그침을 눌러야 한다.
-
- 마우스 우클릭을 통해 페이지 소스보기
 - Ctrl + u

1. Getting Started

Graph terminology

```
hcllee@DESKTOP-6GF025B MINGW64 /d/github/Flask/1
$ export FLASK_DEBUG=1

hcllee@DESKTOP-6GF025B MINGW64 /d/github/Flask/1
$ flask run
* Serving Flask app "flaskblog.py" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with windowsapi reloader
* Debugger is active!
* Debugger PIN: 160-379-627
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

```
hcllee@DESKTOP-6GF025B MINGW64 /d/github/Flask/1
$ python flaskblog.py
* Serving Flask app "flaskblog" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with windowsapi reloader
* Debugger is active!
* Debugger PIN: 233-698-591
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [23/Jun/2020 13:02:50] "GET / HTTP/1.1" 200 -
```

- 매번 수정하고 종료하고 새로고침을 할 수 없으니 debug 설정을 해줘야한다.

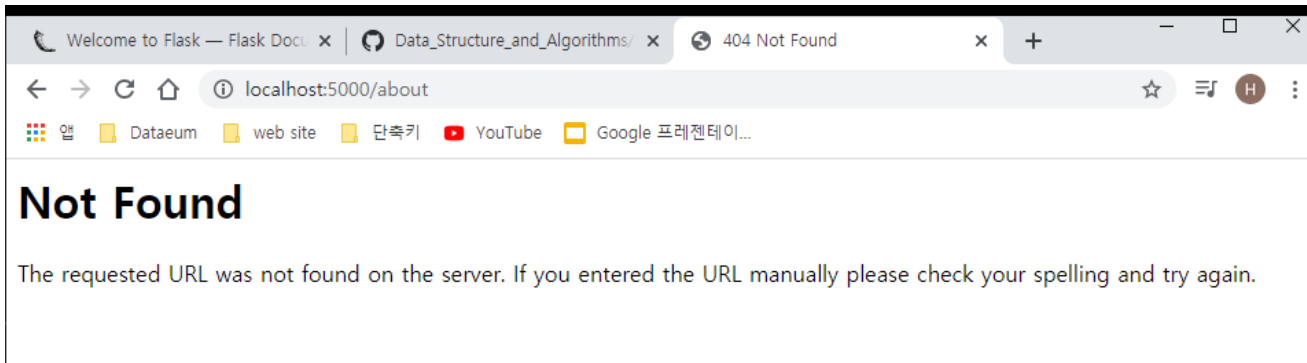
- 파이썬으로 실행하는 방법
- If 문추가
- Debug=True : debug를 활성화
- Python flaskblog.py 로 실행

```
@app.route('/')
def hello():
    return '<h1>Hello World<h>'

if __name__ == '__main__':
    app.run(debug=True)
```

1. Getting Started

Graph terminology



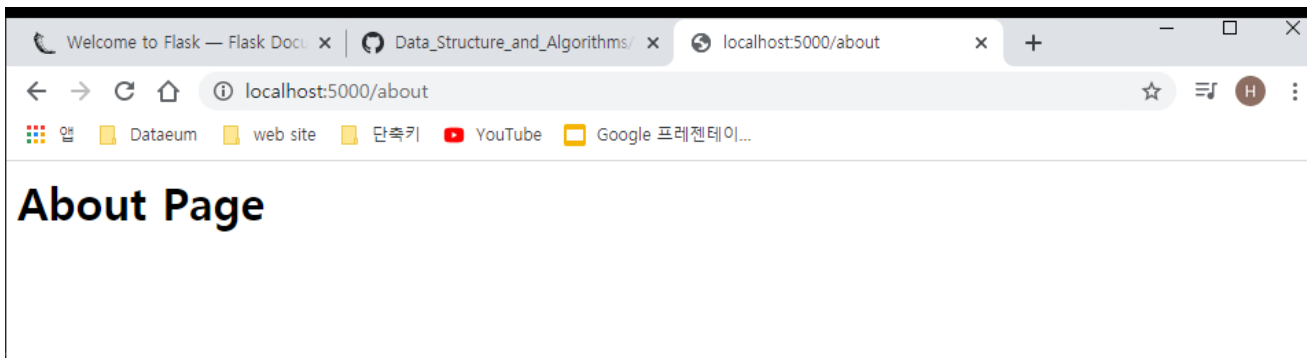
- About 페이지로 이동
- Terminal 창에 404 error 반환
- 이 페이지에 대한 경로를 만든다

```
* Restarting with windowsapi reloader
* Debugger is active!
* Debugger PIN: 233-698-591
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [23/Jun/2020 13:06:12] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [23/Jun/2020 13:07:20] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [23/Jun/2020 13:07:25] "GET /about HTTP/1.1" 4
04 -
```


1. Getting Started

Graph terminology

```
1 > flaskblog.py > ...
1  from flask import Flask
2  app = Flask(__name__)
3
4  @app.route('/')
5  def hello():
6      return '<h1>Hello World!<h>'
7
8  @app.route('/about')
9  def about():
10     return '<h1>About Page<h>'
11
12  if __name__ == '__main__':
13     app.run(debug=True)
```



- 경로는 /about
- Name 바꿔준다
- 저장하고 웹으로 들어가서 새로그침!
- About page가 나타나고
- Terminal창에 더 이상 404 error가 안뜬다.

1. Getting Started

Graph terminology

```
flaskblog.py > ...
1  from flask import Flask
2  app = Flask(__name__)
3
4  @app.route('/')
5  @app.route('/home')
6  def home():
7      return '<h1>Hello World!<h>'
8
9  @app.route('/about')
10 def about():
11     return '<h1>About Page<h>'
12
13 if __name__ == '__main__':
14     app.run(debug=True)
```

- 경로를 두개를 가질수 있다
- `@app.route('/home')` 을 추가
- `Localhost:5000/home`
- 으로 접속할수도 있다.
- 동일한 기능을 가리키는 두 개의 경로이다.

