

Flask를이용하여 파이썬으로 웹사이트 만들기



- 간단한 웹 사이트나 API 서버를만드는데 특화되어있는 **Python Web Framework**
- **WSGI** 기반으로 하는 **Python**의 클래스 인스턴스



- 웹 어플리케이션이나 웹 서비스를 구현하는데 필요한 패키지나 모듈을 제공하여 개발과정을 수월하고 빠르게 만들어줌
- 요청 라우팅과같은 저차원적인 일들에 신경을 덜 쓸 수 있음
- 디버깅이나 테스트를 위한 라이브러리들 제공



Frame + Work = Framework

(틀, 규칙)

(일, 소프트웨어의 목적)

목적에 따라 효율적으로 구조를 짜놓은 개발 방식



개인카페



스*벅스
메*커피
컴*즈 커피
etc...

- 목적에 필요한것을 고민할 필요 없이 이용할 수 있도록 일괄로 가져다 쓰도록 만들어 놓은 구조화된 틀

애플의 애플리케이션을 개발하기 위해 필요한 프레임워크



Additional Tools for Xcode 15.3

March 6, 2024

[Hide Details ^](#)

This package enables UNIX-style development via Terminal by installing command line developer tools, as well as macOS SDK **frameworks** and headers. Many useful tools are included, such as the Apple LLVM compiler, linker, and Make. If you use Xcode, these tools are also embedded within the Xcode IDE.

[Additional Tools for Xcode 15.3.dmg](#)

33.99 MB



Command Line Tools for Xcode 15.3

March 6, 2024

[View Details](#)



Command Line Tools for Xcode 15.3 Release Candidate 2

March 4, 2024

[View Details](#)



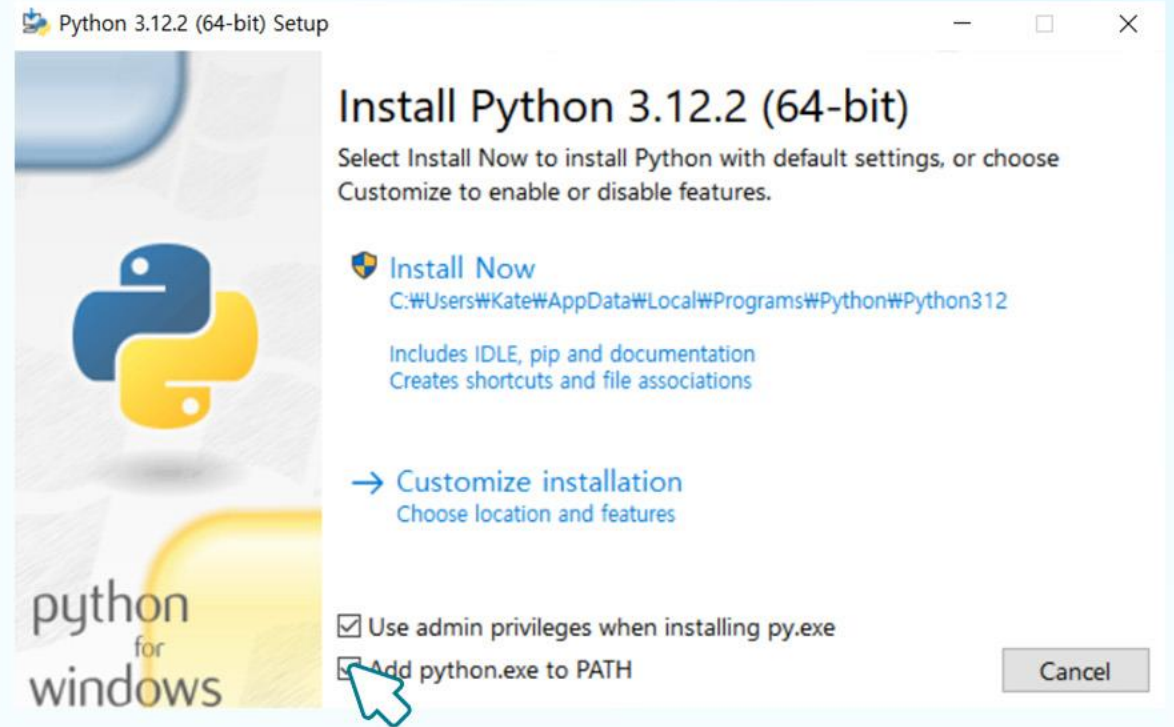
Command Line Tools for Xcode 15.3 Release Candidate

February 27, 2024

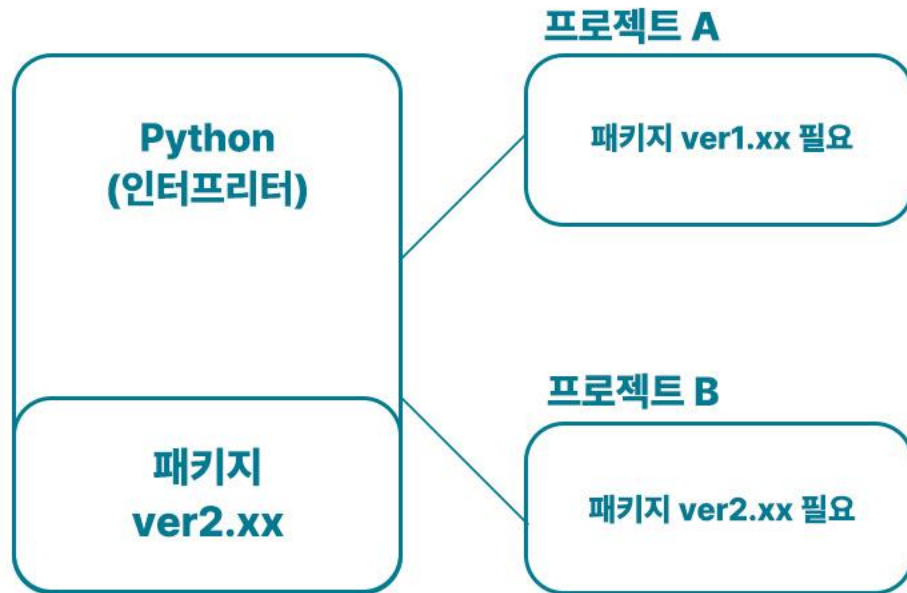
[View Details](#)

Web Server Gateway Interface





전역설치



가상환경 구성



Flask 설치 - 가상 환경 설정 및 플라스크 설치

폴더 생성
및
가상 환경 설정&활성화

```
mkdir flaskproject
cd flaskproject
py -3 -m venv project
project\Scripts\activate
```

플라스크 설치 →

```
pip install Flask
```

플라스크 서버
활성화

```
flask run

Ctrl+c

set FLASK_DEBUG=true

flask run
```

```
(project) C:\Users\Kate\Desktop\웹프로그래밍 응용\flaskproject>pip install Flask
Collecting Flask
  Downloading flask-3.0.2-py3-none-any.whl.metadata (3.6 kB)
Collecting Werkzeug>=3.0.0 (from Flask)
  Downloading werkzeug-3.0.1-py3-none-any.whl.metadata (4.1 kB)
Collecting Jinja2>=3.1.2 (from Flask)
  Downloading Jinja2-3.1.3-py3-none-any.whl.metadata (3.3 kB)
Collecting itsdangerous>=2.1.2 (from Flask)
  Downloading itsdangerous-2.1.2-py3-none-any.whl.metadata (2.9 kB)
Collecting click>=8.1.3 (from Flask)
  Downloading click-8.1.7-py3-none-any.whl.metadata (3.0 kB)
Collecting blinker>=1.6.2 (from Flask)
  Downloading blinker-1.7.0-py3-none-any.whl.metadata (1.9 kB)
Collecting colorama (from click>=8.1.3->Flask)
  Downloading colorama-0.4.6-py2.py3-none-any.whl.metadata (17 kB)
Collecting MarkupSafe>=2.0 (from Jinja2>=3.1.2->Flask)
  Downloading MarkupSafe-2.1.5-cp312-cp312-win_amd64.whl.metadata (3.1 kB)
Downloading flask-3.0.2-py3-none-any.whl (101 kB)
101.3/101.3 kB 968.7 kB/s eta 0:00:00
Downloading blinker-1.7.0-py3-none-any.whl (13 kB)
Downloading click-8.1.7-py3-none-any.whl (97 kB)
97.9/97.9 kB 1.9 MB/s eta 0:00:00
Downloading itsdangerous-2.1.2-py3-none-any.whl (15 kB)
Downloading Jinja2-3.1.3-py3-none-any.whl (133 kB)
133.2/133.2 kB 2.7 MB/s eta 0:00:00
Downloading werkzeug-3.0.1-py3-none-any.whl (226 kB)
226.7/226.7 kB 2.8 MB/s eta 0:00:00
Downloading MarkupSafe-2.1.5-cp312-cp312-win_amd64.whl (17 kB)
Downloading colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Installing collected packages: MarkupSafe, itsdangerous, colorama, blinker, Werkzeug, Jinja2, click, Flask
Successfully installed Flask-3.0.2 Jinja2-3.1.3 MarkupSafe-2.1.5 Werkzeug-3.0.1 blinker-1.7.0 click-8.1.7 colorama-0.4.6 itsdangerous-2.1.2

C:\Users\Kate\Desktop\웹프로그래밍 응용\flaskproject\project>flask run
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit

C:\Users\Kate\Desktop\웹프로그래밍 응용\flaskproject\project>set FLASK_DEBUG=true

C:\Users\Kate\Desktop\웹프로그래밍 응용\flaskproject\project>flask run
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 773-809-645
127.0.0.1 - - [12/Mar/2024 17:08:42] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [12/Mar/2024 17:08:42] "GET /favicon.ico HTTP/1.1" 404 -
```

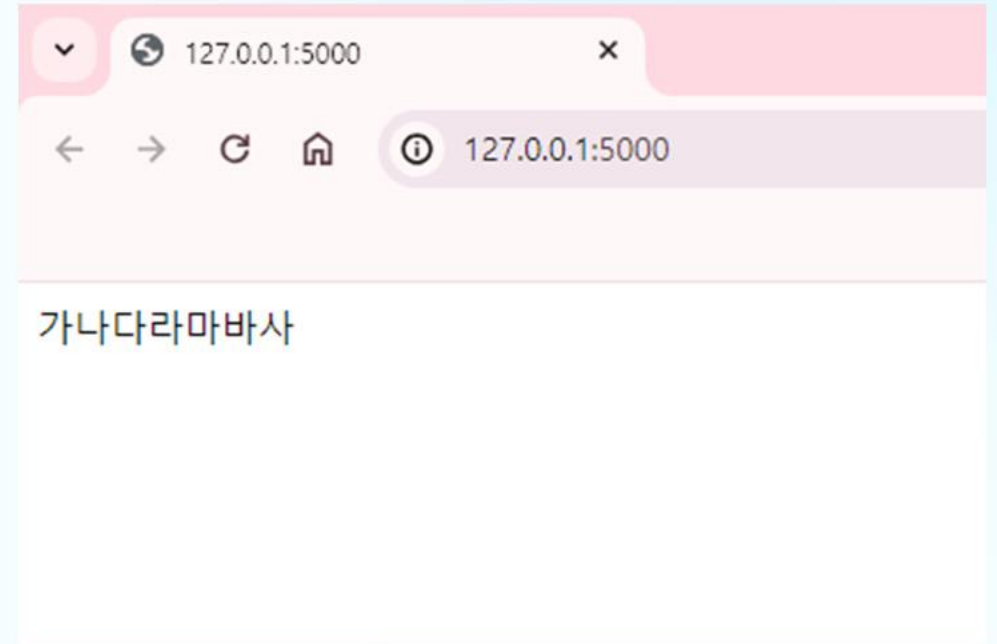
Flask를 이용해 python으로 웹 사이트 만들기

Python ▾

```
from flask import Flask
app = Flask(__name__)

@app.route('/')
def hello_world() :
    return '가나다라마바사'

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



Flask를 이용해 python으로 웹 사이트 만들기

Python ▾

```
from flask import Flask
app = Flask(__name__)

@app.route('/')
def hello_world():
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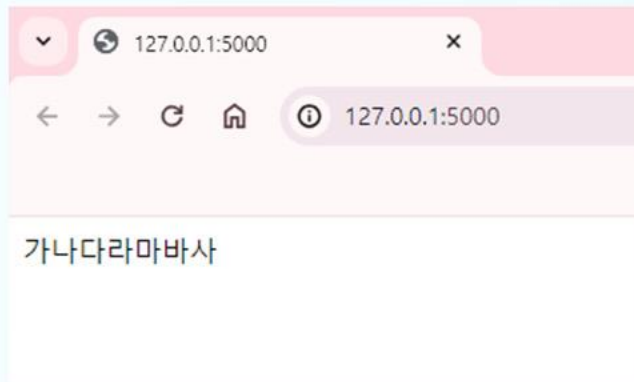
@app.route('/hello')
def hello():
    return '안녕하세요!'

@app.route('/bye')
def bye():
    return '잘가요!'

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

Press CTRL+C to quit

```
127.0.0.1 - - [13/Mar/2024 19:41:58] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [13/Mar/2024 19:42:17] "GET /bye HTTP/1.1" 200 -
127.0.0.1 - - [13/Mar/2024 19:42:39] "GET /hello HTTP/1.1" 200 -
```



Flask를 이용해 python으로 웹 사이트 만들기

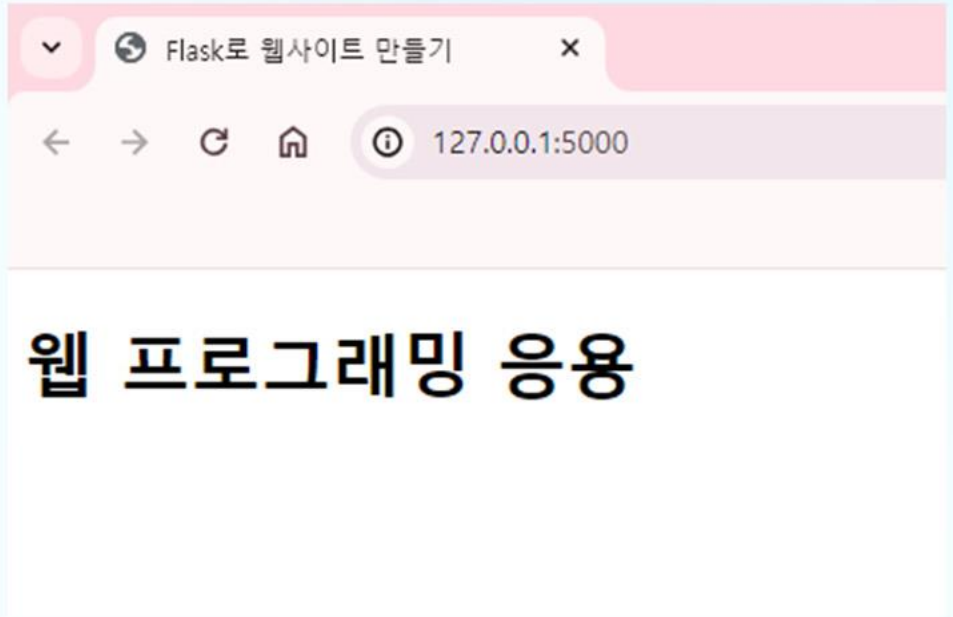
```
from flask import Flask, render_template
app = Flask(__name__)
```

```
@app.route('/')
def hello_world() :
    return render_template('index.html')
```

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

```
<!DOCTYPE html>
<html lang="en"> //굳이안적어도됨
<head>
    <meta charset="UTF-8">
    <title>Flask로 웹사이트 만들기</title>
</head>
<body>
    <h1>웹 프로그래밍 응용</h1>
</body>

</html>
```



Flask를 이용해 python으로 웹 사이트 만들기

```
from flask import Flask, render_template
import os
app = Flask(__name__)

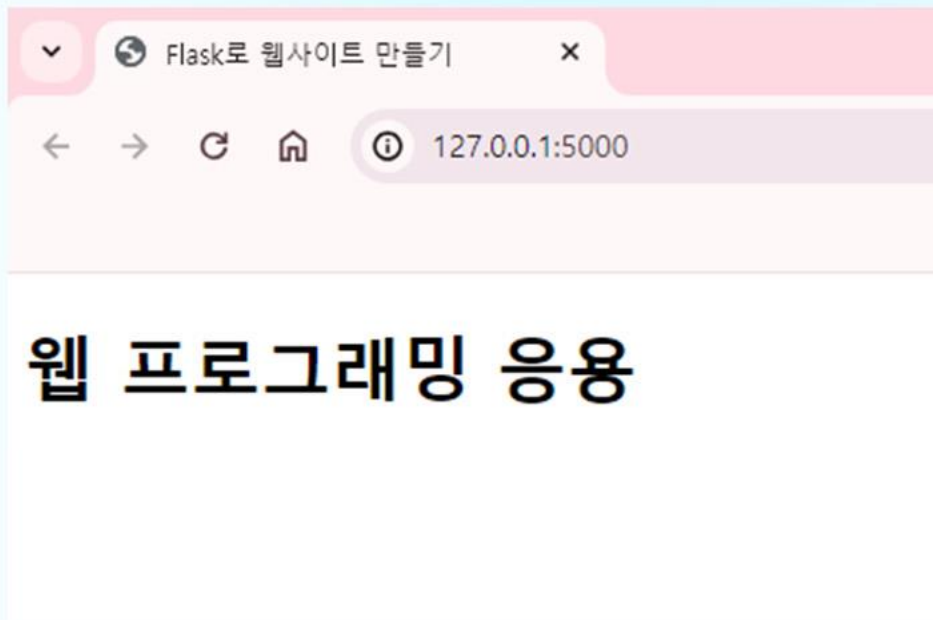
template_folder = os.path.join(os.path.dirname(os.path.abspath(__file__)), 'website')
app = Flask(__name__, template_folder=template_folder)

@app.route('/')
def hello_world() :
    return render_template('index.html')

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

<!DOCTYPE html>
<html lang="en"> //국어안적어도됨
<head>
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</body>

</html>
```



Q & A