Flask

- flask는 경량 WSGI 웹 어플리케이션 프레임워크 입니다,
- 빠르고 쉽게 웹 어플리케이션을 개발할수 있도록 설계되었습니다.
- install
  - pip install flask
  - conda install -c anaconda flask

프로젝트 생성

In [1]:

```
!rm -rf hello
!mkdir -p hello/static
!mkdir -p hello/templates
!touch hello/hello.py
!touch hello/templates/index.html
!tree hello
```

```
hello
├── hello.py
├── static
└── templates
    └── index.html

2 directories, 2 files
```

- hello.py
  - was의 app객체를 생성하는 파일
  - route 설정 : request를 받기위한 코드 작성
- static
  - 자바스크립트, css, image 파일등 정적인 코드 파일을 저장
- templates
  - html 코드를 저장

hello.py 작성

In [2]:

```
%%writefile hello/hello.py
from flask import *

app = Flask(__name__)

@app.route("/")
def hello():
    return "Hello Flask"

# returns an HTML webpage
@app.route("/user/<username>")
def user(username):
    return render_template('index.html', name=username)

# retruns a piece of data in JSON format
@app.route("/people")
def people():
    people = {"alice": 25, "jin":35}
    return jsonify(people)

# run was
app.run(debug=True)
```

```
Overwriting hello/hello.py
```

index.html 작성

In [3]:

```
%%writefile hello/templates/index.html
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <title>Flask Basic</title>
</head>
<body>

    Hello {{name}}

    <button id="getData">Get Data</button>

    <div class="result"></div>

    <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>
    <script type="text/javascript">
        $(document).ready(function() {
            $("#getData").click(function() {
                $.getJSON("/people", function(data) {
                    console.log(data);
                    var tag = "<p>alice : " + data.alice + "</p>";
                        tag += "<p>jin : " + data.jin + "</p>";
                    $(".result").html(tag);
                })
            })
        })
    </script>

</body>
</html>
```

```
Overwriting hello/templates/index.html
```

run python code

In [4]:

```
!python hello/hello.py
```

```
 * Serving Flask app 'hello'
 * 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 (http://127.0.0.1:5000)
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 143-203-566
127.0.0.1 - - [27/Apr/2023 14:58:56] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [27/Apr/2023 14:58:56] "GET /favicon.ico HTTP/1.0" 404 -
127.0.0.1 - - [27/Apr/2023 14:59:07] "GET /user/kt HTTP/1.0" 200 -
127.0.0.1 - - [27/Apr/2023 14:59:10] "GET /people HTTP/1.0" 200 -
^C
```