

Basic Web App with Flask

(Part I)

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Flask
web development,
one drop at a time

Requirements



Flask

web development,
one drop at a time

Request Response



HTTP Methods

GET

<http://site.com/page?x=1234>



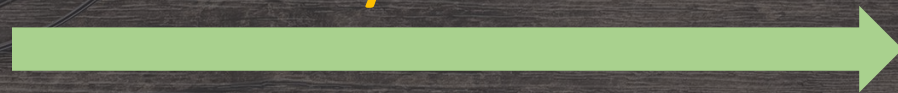
POST

<http://site.com/page>



Try GET!!

“Python”

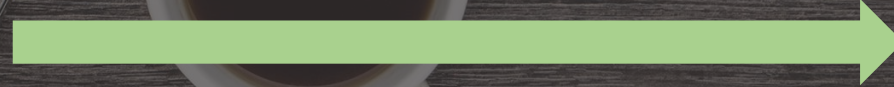


www.google.com

Try GET!!



"Python"



www.google.com

get.html

```
1 <form method="GET" action="http://www.google.com">
2   <input name="q">
3   <input type="submit">
4 </form>
```


What is Flask?



Flask is a microframework for Python based on Werkzeug, Jinja 2 and good intentions. And before you ask: It's [BSD licensed](#)!

Setup

By python PIP

```
>python -m pip install Flask
```




Let's get start

Clone my project on GitHub

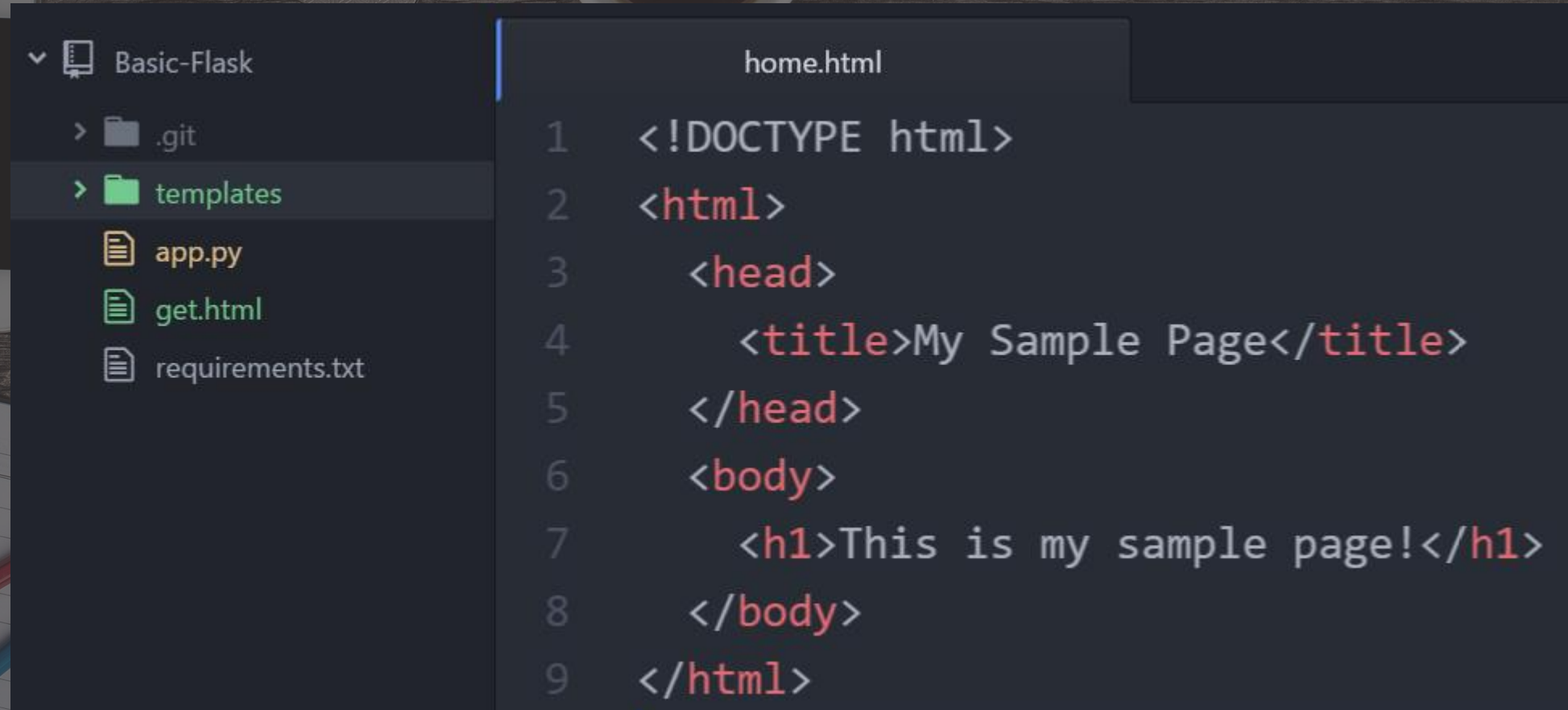
```
>git clone https://github.com/DreamN/Basic-Flask.git
```


Sample!

```
1  ▾ #####
2  #      Basic Flask Course @tedESL ESL, KMITL      #
3  #      Github:https://github.com/DreamN/Basic-Flask  #
4  #####
5
6  from flask import Flask
7  app = Flask(__name__)
8
9  @app.route('/')
10 ▾ def Home():
11     return "Hello World"
12
13 ▾ if __name__ == '__main__':
14     app.debug = True
15     app.run(host='0.0.0.0', port=8000)
```


Template!

Import “render_template” and create sample html page



```
home.html
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>My Sample Page</title>
5    </head>
6    <body>
7      <h1>This is my sample page!</h1>
8    </body>
9  </html>
```


Variable -> Templates

app.py

```
def Home():  
    x = "foo"  
    return render_template('home.html', x=x)
```

Variable

```
<body>  
  <h1>{{x}}</h1>
```

Condition, loop,

```
{% for x in x_list %}  
  <h1>{{x}}</h1><br>  
{% endfor %}
```


Variable -> Templates (2)

app.py

```
from flask import Flask, render_template
```

```
@app.route('/myFav')
def MyFavGame():
    game_list = ['Mario', 'Pokemon', 'Pacman', 'Rockman', 'Kirby']
    return render_template('game.html', game_list=game_list)
```

game.html

```
1 <h1> My Fav Game is: </h1>
2 <ul>
3     {% for game in game_list %}
4     <li>{{game}}</li>
5     {% endfor %}
6 </ul>
```


Play with @app.route

Challenge!:

/hello/name

then render:

greeting page with template

URLs with Variables

/path/<var_type: var_name>/path/

app.py

```
@app.route('/greeting/<string:name>/')
def Greeting(name):
    return render_template('greeting.html', name=name)
```

greeting.html

```
<h1>Hello {{name}} !</h1>
```




Q & A

<https://github.com/DreamN/Basic-Flask>