

20200824信息安全实训

笔记本: 我的第一个笔记本

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面向对象 (OO)

类 class (模板) 实例化 对象 object/instance 实例

类方法 (函数) 参数

类属性/类字段

重写 __init__()方法

线程 thread

```
1 from bs4 import BeautifulSoup
2 import requests
3 from urllib.parse import urljoin
4 from urllib.parse import urlparse
5 import threading
6
7 class HrefFetcher(threading.Thread):
8
9     def __init__(self, url):
10         threading.Thread.__init__(self)
11         self.url = url
12         self.hrefs = set()
13
14     def run(self):
15
16         res = requests.get(self.url, verify=False)
17
18         soup = BeautifulSoup(res.text, 'html.parser')
19
20         for link in soup.find_all('a'):
21             href = link.get("href")
22             href_parse = urlparse(href)
23             if self.url in href:
24                 self.hrefs.add(href)
25             elif href_parse[1] == '' and 'javascript' not in href:
26                 self.hrefs.add(urljoin(self.url, href))
27
28 t = HrefFetcher('https://www.sz1anyou.com')
29 t.start()
30 t.join()
31
32 print(t.hrefs)
```

```

29
30 results = []
31 targets = ['https://www.szlanyou.com',]
32 pool = []
33 while True:
34     if len(pool) < MAX_TH_NUM and len(targets) > 0:
35         t = HrefFetcher(targets.pop())
36         t.start()
37         pool.append(t)
38     elif len(pool) == 0 and len(targets) == 0:
39         break
40
41     for t in pool:
42         if t.is_alive() == False:
43             pool.pop(pool.index(t))
44             for href in t.hrefs:
45                 if href not in results and href not in targets:
46                     print(href)
47                     results.append(href)
48                     targets.append(href)
49
50 print("done.")

```

菜鸟教程

python web frame

```

1 from bottle import route, run, template
2
3 @route('/hello/<name>')
4 def index(name):
5     return template('<b>Hello {{name}}</b>!', name=name)
6
7 run(host='0.0.0.0', port=8080)

```

```

1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>List</title>
5   </head>
6   <body>
7     <h1>Site List Page</h1>
8     <table>
9       <thead>
10        <th>ID</th>
11        <th>Domain name</th>
12      </thead>
13      <tbody>
14        <tr>
15          <td>1</td>
16          <td>https://www.szlangyou.com</td>
17        </tr>
18      </tbody>
19    </table>
20  </body>
21 </html>

```

```

1 from bottle import route, run, view
2
3 @route('/list', method='GET')
4 @view('list')
5 def site_list():
6     sites = [
7         (0, 'https://www.szlangyou.com'),
8         (1, 'https://www.szlangyou.com'),
9         (2, 'https://www.szlangyou.com')
10    ]
11    return {'sites': sites}
12
13 run(host='0.0.0.0', port=8000)

```



```

1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>List</title>
5   </head>
6   <body>
7     <h1>Site List Page</h1>
8     <table>
9       <thead>
10        <th>ID</th>
11        <th>Domain name</th>
12      </thead>
13      <tbody>
14        % for site in sites:
15          <tr>
16            <td>{{ site[0] }}</td>
17            <td>{{ site[1] }}</td>
18          </tr>
19        % end
20      </tbody>
21    </table>
22  </body>
23 </html>

```

./app.py

13,1

all ./views/list.tpl

1,1

all

"./views/list.tpl" 23L, 505C

```

1 import bottle
2 import bottle.ext import sqlite
3 from bottle import route, run, view
4
5 app = bottle.Bottle()
6 plugin = sqlite.Plugin(dbfile='./scanner.db')
7 app.install(plugin)
8
9 @app.route('/list', method='GET')
10 @view('list')
11 def site_list(db):
12     sites = [
13         (0, 'https://www.szlangyou.com'),
14         (1, 'https://www.szlangyou.com'),
15         (2, 'https://www.szlangyou.com')
16     ]
17     return ('sites': sites)
18
19 app.run(host='0.0.0.0', port=8080)

```

```

1 import sqlite3
2
3 create_table_sites = '''
4 create table sites
5 (
6     id integer primary key,
7     url text not null
8 )
9 '''
10
11 conn = sqlite3.connect('./scanner.db')
12
13 cursor = conn.cursor()
14

```

管理 控制 视图 热键 设备 帮助

```

1 import sqlite3
2
3 create_table_sites = '''
4 create table sites
5 (
6     id integer primary key autoincrement,
7     url text not null
8 )
9 '''
10
11
12 conn = sqlite3.connect('./scanner.db')
13
14 cursor = conn.cursor()
15
16 cursor.execute(create_table_sites)
17
18 cursor.execute('insert into sites values (null,"https://www.szlangyou.com")')
19 cursor.execute('insert into sites values (null,"https://www.szlangyou.com")')
20 cursor.execute('insert into sites values (null,"https://www.szlangyou.com")')
21
22 conn.commit()
23
24 for row in cursor.execute('select * from sites'):
25     print(row)
26
27 conn.close()

```

```
1 import bottle
2 from bottle.ext import sqlite
3 from bottle import route, run, template
4
5 app = bottle.Bottle()
6 plugin = sqlite.Plugin(dbfile='./scanner.db')
7 app.install(plugin)
8
9 @app.route('/list', method='GET')
10 def site_list(db):
11     sites = db.execute('select * from sites')
12     return template('list', sites=sites)
13
14 app.run(host='0.0.0.0', port=8000)
```