



编程2-4 代理浏览器报告

1. 基础信息

- python 版本：3.9
- 浏览器：Edge 110

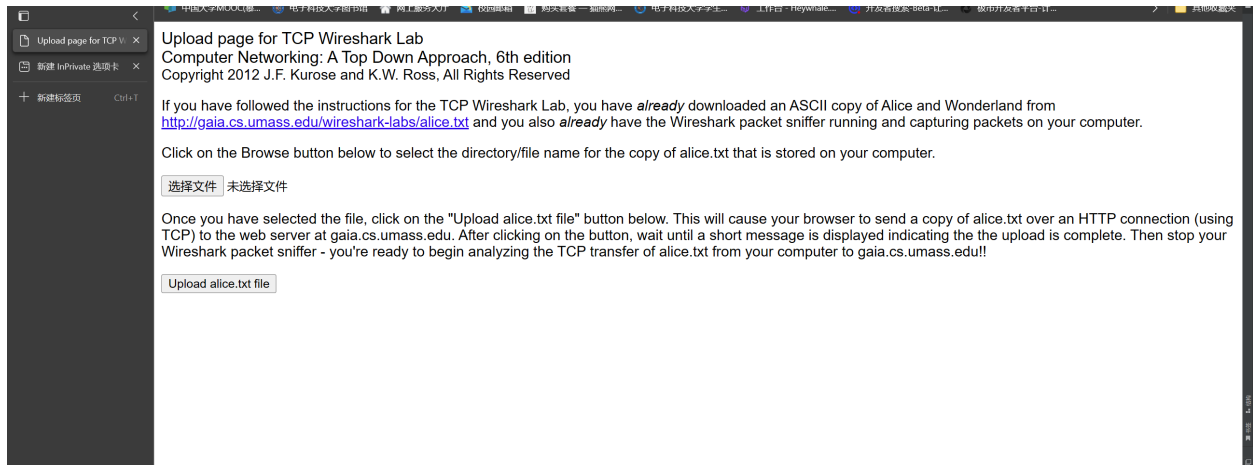
2. Web代理服务器运行截图

```
1 # Define thread process
2 def Server(topClisock, addr):
3
4     BUFSIZE = 1024
5     print('Received a connection from:', addr)
6     data = topClisock.recv(BUFSIZE).decode() #fill-in-start #fill-in-end
7     print(data)
8
9     if len(data):
10         # Extract the filename from the received message
11         getFile = data.split()[1]
12         print('getFile:',_getFile)
13
14         # Form a legal filename
15         web_name = "/".join(getFile.split("/")[:1])
16         filename = "/".join(getFile.split("/")[:2])#fill-in-start #fill-in-end
17         filename_new = ".".join(getFile.split("/")[:2])
18         print('filename:', filename)
19
20         # Check whether the file exist in the cache
21         if os.path.exists(filename_new):
22             print('File exist')
23             # ProxyServer finds a cache hit and generates a response message
24             f = open(filename_new, "r")
25
26     if len(data): else : try
```

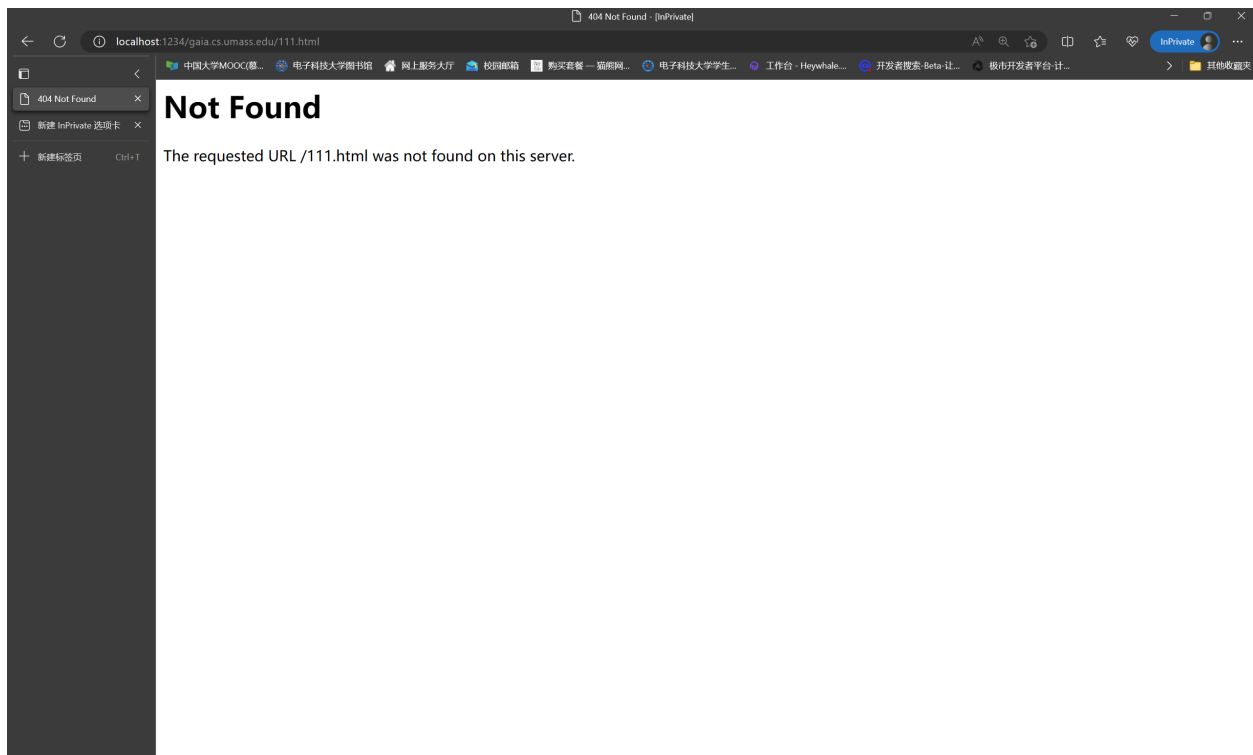
```
运行: 2-4-Web代理服务器通信代码
Received a connection from: ('127.0.0.1', 3959)
GET /gaia.cs.umass.edu/wireshark-labs/TCP-wireshark-file1.html HTTP/1.1
Host: localhost:1234
Connection: keep-alive
sec-ch-ua: "Microsoft Edge";v="111", "Not(A:Brand);v="8", "Chromium";v="111"
sec-ch-ua-mobile: ?0
sec-ch-ua-platform: "Windows"
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36 Edg/111.0.1661.54
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: none
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Accept-Encoding: gzip, deflate, br
```

3. 客户端浏览器截图

3.1 有文件



3.2 无文件



4. 缓存文件

