

lab1 Web Server 编程作业

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1. Complete the skeleton code

2. Run Code

Put an HTML file (e.g., HelloWorld.html) in the same directory that the server is in. Run the server program. Determine the IP address of the host that is running the server (e.g., 128.238.251.26). From another host, open a browser and provide the corresponding URL. For example:

http://localhost:9000/Web_server.html

3. Require

You will hand in the complete server code along with the screen shots of your client browser

1. complete server code:

```
# import socket module
from socket import *
import sys # In order to terminate the program

serverSocket = socket(AF_INET, SOCK_STREAM)
# Prepare a sever socket
# Fill in start
HOST = ''
PORT = 9000
BUFSIZ = 1024
ADDRESS = (HOST, PORT)
serverSocket.bind(ADDRESS) # 绑定ADDRESS
serverSocket.listen(1)
# Fill in end
while True:
    # Establish the connection
    print('Ready to serve...')
    connectionSocket, addr = serverSocket.accept() # Fill in
    print('Connected by', addr)
    try:
        message = connectionSocket.recv(BUFSIZ) # Fill in start
#Fill in end
        print(message.split()[0], ':', message.split()[1])
        filename = message.split()[1]
        print(filename[1:])
        f = open(filename[1:], encoding='utf-8')
        outputdata = f.read() # Fill in start #Fill in end
        # Send one HTTP header line into socket
        # Fill in start
        data = 'HTTP/1.1 200 OK\r\n\r\n'
        connectionSocket.send(data.encode('utf-8'))
        # Fill in end
        # Send the content of the requested file to the client
        for i in range(0, len(outputdata)):
```

```

        connectionSocket.send(outputdata[i].encode('utf-8'))
        connectionSocket.send("\r\n".encode('utf-8'))

    connectionSocket.close()
except IOError:
    # Send response message for file not found
    # Fill in start
    data = '404 Not Found\r\n'
    print('No file')
    connectionSocket.send(data.encode('utf-8'))
    # Fill in end
    # Close client socket
    # Fill in start
    connectionSocket.close()
    # Fill in end
serverSocket.close()
sys.exit() # Terminate the program after sending the corresponding data

```

2. output

■ 失败

127.0.0.1:9000/hello.html



当前无法使用此页面

127.0.0.1 发送了无效的响应。

ERR_INVALID_HTTP_RESPONSE

刷新

```

TCPServer x
D:\software\python37\python.exe D:/pythonf
Ready to serve...
Connected by ('127.0.0.1', 62878)
b'GET' : b'/hello.html'
b'hello.html'
No file
Ready to serve...

```

■ 成功

localhost:9000/Web_server.html

应用IMDb Top 250 - L...

lab4 Web Server

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2. Run Code

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ElementsConsoleSourcesNetworkPerformance»

Filter

Hide data URLs

XHRJS CSS Img Media Font Doc WS Manifest Other

Has blocked cc

Blocked Requests

100 ms200 ms300 ms400 ms

Name	Status	Type	Initiator	Size	T...
Web_server.html	200	docu...	Other	3.6 kB	4...

右下角返回200

```
TCPServer x
Connected by ('127.0.0.1', 54594)
b'Web_server.html'
Ready to serve...
Connected by ('127.0.0.1', 54601)
b'favicon.ico'
No file
Ready to serve...
```