

**GTU Department of Computer Engineering  
CSE 476/575 Mobile Communication Networks  
Fall 2021 - Term Project Assignments Report**

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## Assignment 1: Web Server

Prepare a sever socket

```
# Fill in start
serverPort = 5000
serverSocket.bind('', serverPort)
serverSocket.listen(1)
print('server running on 127.0.0.1:', serverPort)
# Fill in end
```

\*As you can see, port is 5000.

Start to listen connection

```
print('Ready to serve...')
connectionSocket, addr = serverSocket.accept() # Fill in start #Fill in end
```

Read coming data

```
message = connectionSocket.recv(1024) # Fill in start
filename = message.split()[1]
f = open(filename[1:])
outputdata = f.read() # Fill in start #Fill in end
# Send one HTTP header line into socket
```

Send Success messages

```
# Fill in start
connectionSocket.send('\nHTTP/1.1 200 OK\n\n'.encode())
# 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())
connectionSocket.close()
```

Send Error messages

```
# Send response message for file not found
# Fill in start
connectionSocket.send("\nHTTP/1.1 404 Not Found\n\n".encode())
# Fill in end
# Close client socket
# Fill in start
connectionSocket.close()
# Fill in end
```

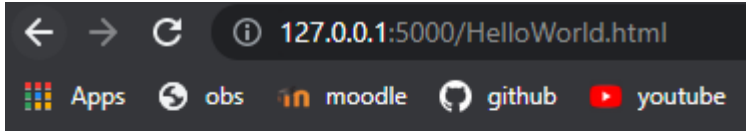
Testing

In order to test, I create a simple HelloWorld.html file.

## Start

```
server running on 127.0.0.1: 5000  
Ready to serve...
```

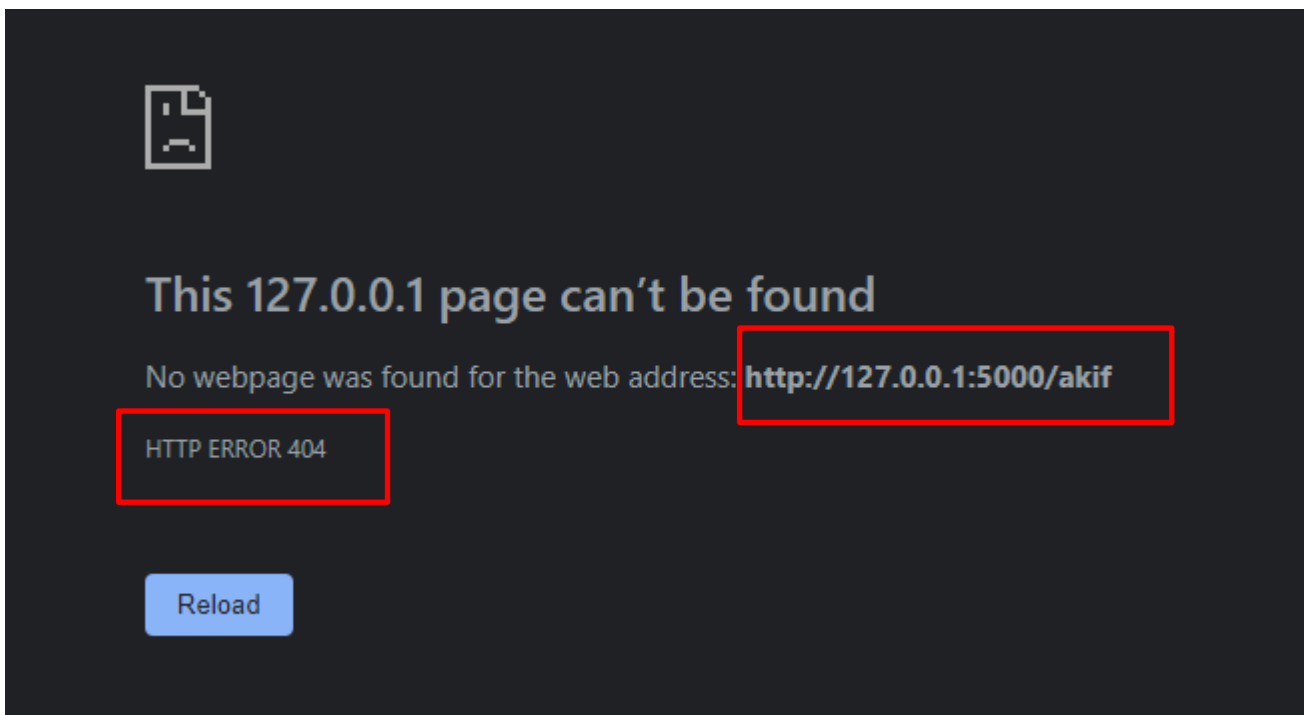
## Connect



# Hello World!

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## Try to Connect wrong address



\*As you can see we got **error 404** as expected

## How to run

Just run python files.