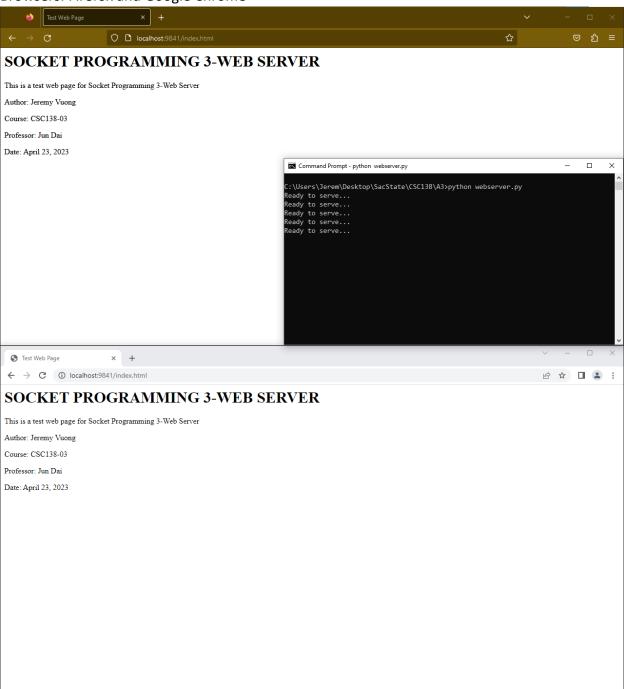
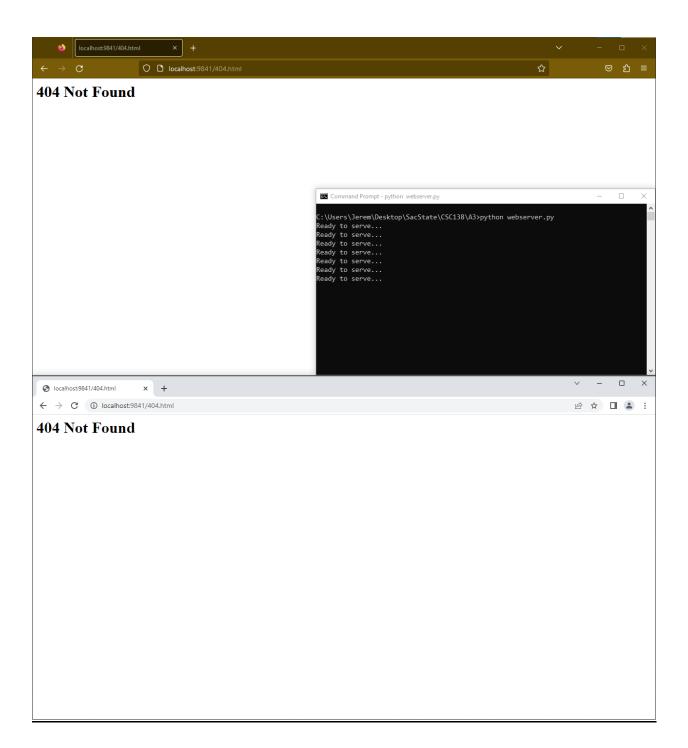
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Course: CSC 138-03
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Date: 04/23/2023

## Socket Programming Assignment 3 - Web Server

Browsers: Firefox and Google Chrome





## Source code for webserver.py

```
# import socket module
from socket import *
import sys
# Create a (TCP) server socket
serverSocket = socket(AF_INET, SOCK_STREAM)
# Prepare a server socket
PORT = 9841
serverSocket.bind(("", PORT))
serverSocket.listen(1)
while True:
  # Establish the connection
  print('Ready to serve...')
  connectionSocket, addr = serverSocket.accept()
  try:
    # Receive the HTTP request message from the client
    message = connectionSocket.recv(1024).decode()
    filename = message.split()[1] # Get the requested file
    # Open the requested file
    f = open(filename[1:])
    # Read the contents of the file
    outputdata = f.readlines()
    # Send the HTTP response header to the client
    connectionSocket.send("HTTP/1.1 200 OK\r\n".encode())
       connectionSocket.send("Content-Type: text/html\r\n".encode())
       connectionSocket.send("\r\n".encode())
    # Send the content of the requested file to the client
    for i in range(0, len(outputdata)):
      connectionSocket.send(outputdata[i].encode())
```

```
connectionSocket.send("\r\n".encode())
    # Close the connection
    connectionSocket.close()
 except IOError:
    # Send a 404 Not Found response message to the client
    connectionSocket.send('HTTP/1.1 404 Not Found\r\n'.encode())
      connectionSocket.send("Content-Type: text/html\r\n")
    connectionSocket.send("\r\n")
    connectionSocket.send("<html><head></head><body><h1>404 Not
Found</h1></body></html>\r\n")
    # Close the connection
    connectionSocket.close()
# Close the server socket
serverSocket.close()
sys.exit() # Terminate the program after sending the corresponding data
                              Source code for index.html
<html>
<head>
      <title>Test Web Page</title>
</head>
<body>
      <h1>SOCKET PROGRAMMING 3-WEB SERVER</h1>
      This is a test web page for Socket Programming 3-Web Server
                   Jeremy Vuong
      Author:
      Course:
                   CSC138-03
      Professor: Jun Dai
      Date:
                   April 23, 2023
</body>
</html>
```