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Assignment: Web Server

<mark>Web Server Source Code:</mark>

```python
#import socket module
from socket import*
import sys # In order to terminate the program
serverSocket = socket(AF_INET, SOCK_STREAM)

#Prepare a sever socket
serverPort = 9642
serverSocket.bind(("", serverPort))
serverSocket.listen(1)
while True:

        #Establish the connection
        print ('Ready to serve...')
        connectionSocket, addr = serverSocket.accept()

        try:
                message = connectionSocket.recv(1024)
                filename = message.split()[1]
                f = open(filename[1:])
                outputdata = f.read()

                #Send one HTTP header line into socket
                connectionSocket.send ("\n HTTP/1.1 200 OK\r\n")

                #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())
```

```
            connectionSocket.close()

        except IOError:

                #Send response message for file not found

                connectionSocket.send('\nHTTP/1.0 404 Not Found\n\n')

                #Close client socket

                connectionSocket.close()

serverSocket.close()
sys.exit()
#Terminate the program after sending the corresponding data
```

```
<html>

   <body>
        Hello. Welcome to CSC138!
</body>
</html>
```

Screen Shots