Assignment: Socket1\_WebServer

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Server Code:

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| --- |
| #import socket module  from socket import \*  serverSocket = socket(AF\_INET,SOCK\_STREAM)  #perpare a server socket  #Fill in start  serverPort = 9187  serverSocket.bind(("",serverPort))  serverSocket.listen(1)  #Fill in end  while True:  #Establish the connection  print 'Ready to serve....'  #Fill in start  connectionSocket,addr = serverSocket.accept()  #Fill in end  try:  #Fill in start  message = connectionSocket.recv(1024)  #Fill in end  filename = message.split()[1]  f = open(filename[1:])  #Fill in start  outputdata = f.read()  #Fill in end  #Send one HTTP header line into socket  #Fill in start  connectionSocket.send("HTTP/1.1 200 We got this html page!!!\r\n\r\n")  #Fill in end  # Send the content of the requested file to the connection socket  for i in range(0, len(outputdata)):  connectionSocket.send(outputdata[i])  connectionSocket.close()  except IOError:  # Send HTTP response message for file not found  #Fill in start  connectionSocket.send("HTTP/1.1 404 Not Found\r\n\r\n")  connectionSocket.send("<html><body><h1>Sorry, The page you are looking for isn't exist!!!</h1></body></html>\r\n")  #Fill in end  # Close the client socket  #Fill in start  connectionSocket.close()  #Fill in end  serverSocket.close() |

Screen Shots

1. Server is ready



1. Open an exist page



1. Open an Not Found page



1. Sniffer by the WireShark



Optional Question:

No. 2

Client Code:

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| --- |
| from socket import \*  serverName = input("Type in the serverName")  serverPort = int(input("Type in the serverPort"))  fileName = input("Type in the fileName")  clientSocket = socket(AF\_INET,SOCK\_STREAM)  clientSocket.connect((serverName,serverPort))  clientSocket.send(fileName)  inforGet = clientSocket.recv(1024)  print 'From Server:',inforGet  clientSocket.close() |

Screen Shots:

File exist



File not exist

