Part 2

Documentation

This is a simple HTTP server written in python. It can handle files of type html, rawtext, jpeg and pngs. To execute the server, simply run python part3server.py on an allv machine and then visit http://allv24.all.cs.stonybrook.edu:8920/Hello,html

Server code:

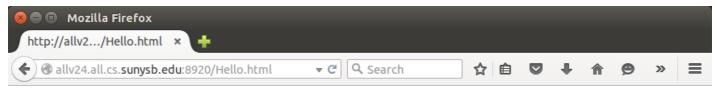
```
# pylint: disable=W,C
#Aditya Balwani, SBU ID: 109353920
#import socket module
from socket import *
#Set port number to 8920
serverPort = 8920
serverSocket= socket(AF_INET, SOCK_STREAM)
#Prepare a sever socket, bind port
serverSocket.bind((",serverPort))
serverSocket.listen(1)
while True:
  #Establish the connection
  print 'Ready to serve...'
  #Accept a request from a host
  connectionSocket, addr = serverSocket.accept()
     #On request recieved, parse the message
     message = connectionSocket.recv(2048)
     print message
     #Extract the filename and the filetype
     filename = message.split()[1]
     print filename
     fileType = filename.split(".")[1].lower()
     print fileType
```

```
#Read file type
     f = open(filename[1:], "r")
     outputdata = f.read()
     # Check file types, and define content type header
     if fileType == 'jpg' or fileType == 'jpeg':
       contentType = 'image/jpeg'
     elif fileType == 'png':
       contentType = 'image/png'
     elif fileType == 'html':
       contentType = 'text/html'
     else:
        contentType = 'text/plain'
     print contentType
     # Send HTTP OK
     connectionSocket.send("HTTP/1.1 200 OK\r\nContent-Type: "+contentType+"; charset=utf-8\r\n\r\n")
     #Send the content of the requested file to the client
     for line in outputdata:
        #print line
       connectionSocket.send(line)
     connectionSocket.close()
  except IOError:
     #Sendresponse message for file not found
     connectionSocket.send("HTTP/1.1 404 NOT FOUND\r\nContent-Type: text/html; charset=utf-8\r\n\r\n")
     # Send a 404 page
     connectionSocket.send("<html><head><title>Hi</title></head><body><h1>404 NOT FOUND</h1></body></html>")
     #Close client socket
     connectionSocket.close()
serverSocket.close()
```

Screenshots



Aditya Balwani, SBUID: 109353920



HI

- Dog
- Cat

```
🔊 🖃 📵 adi@adi-Inspiron-5537: ~/Dropbox/Notes/CSE310/Lab 3
allv24:~> python part3server.py
Ready to serve...
GET /admiral.jpg HTTP/1.1
Host: allv24.all.cs.sunysb.edu:8920
User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86 64; rv:40.0) Gecko/20100101 Fire
fox/40.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: keep-alive
/admiral.jpg
jpg
image/jpeg
Ready to serve...
GET /admiral.jpg HTTP/1.1
Host: allv24.all.cs.sunysb.edu:8920
User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86 64; rv:40.0) Gecko/20100101 Fire
fox/40.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: keep-alive
/admiral.jpg
jpg
image/jpeg
Ready to serve...
GET /Hello.html HTTP/1.1
Host: allv24.all.cs.sunysb.edu:8920
User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86 64; rv:40.0) Gecko/20100101 Fire
fox/40.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: keep-alive
/Hello.html
```