

PROJECT 4 – HTTP SERVER

CPSC 254 - Fall 2015

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1. Program's source code

```
import socket, sys, io
HOST, PORT = 'nptjr29', 8000
count = 0

listen_socket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
listen_socket.setsockopt(socket.SOL_SOCKET, socket.SO_REUSEADDR, 1)
listen_socket.bind((HOST, PORT))
listen_socket.listen(1)
listen_socket.accept()

while True:
    client_connection, client_address = listen_socket.accept()
    request = client_connection.recv(1024)

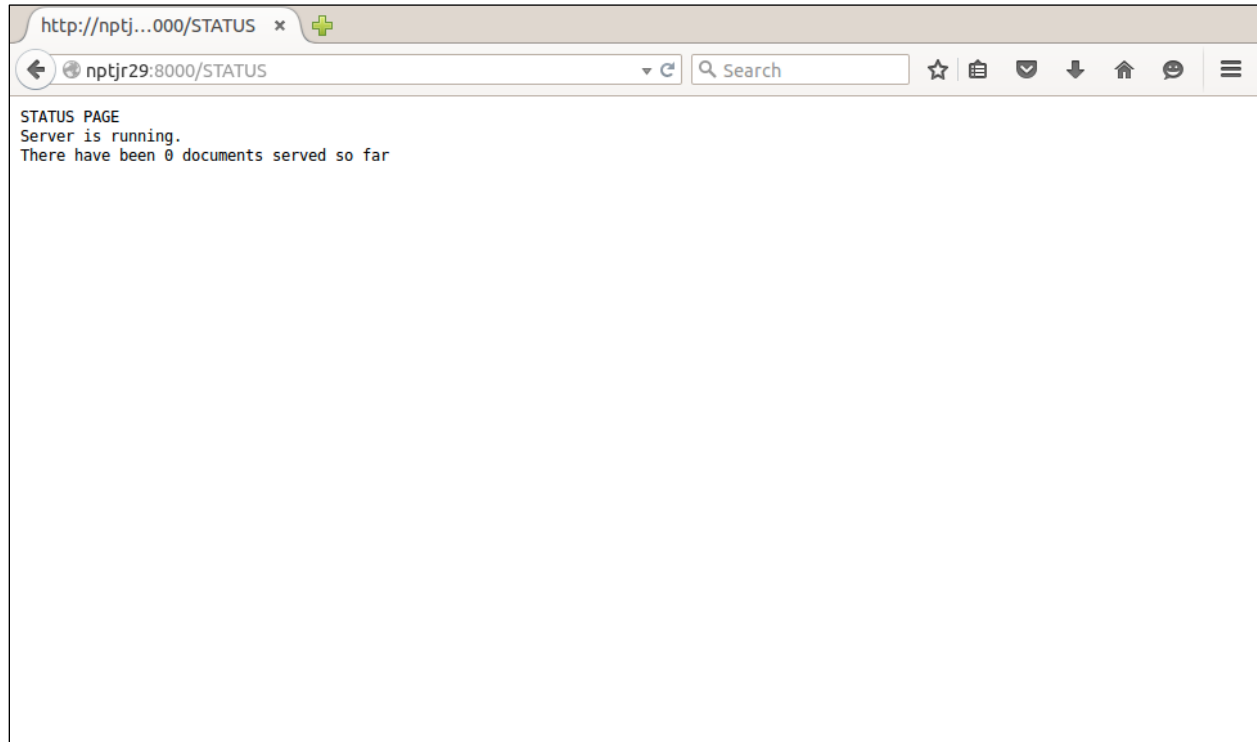
    if request[:4] != "GET ":
        http_response = "400 Bad Request"
        print "Bad Request"
    elif request[:11] == "GET /STATUS":
        http_response = ""\
STATUS PAGE
Server is running.
There have been %s documents served so far
"" %count
        print("Sent STATUS")
    else:
        filename = request[5:15]
        try:
            f=open( filename, "r" )
            http_response = f.read()
            print("Sent %s" %filename)
            count = count + 1
        except IOError:
            http_response = "404 File Not Found"
            print ("Could not find %s" %filename)

    client_connection.sendall(http_response)
    client_connection.close()

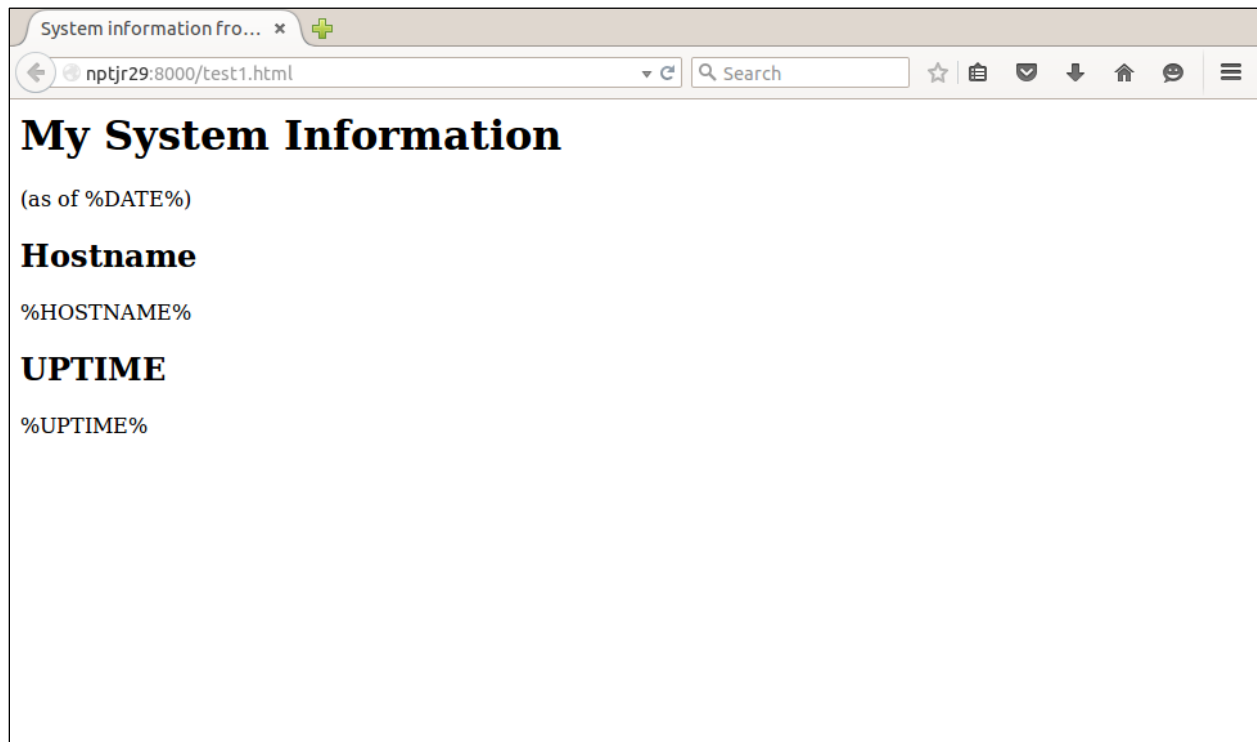
-- INSERT --
```

2. Screenshots of Firefox displaying...

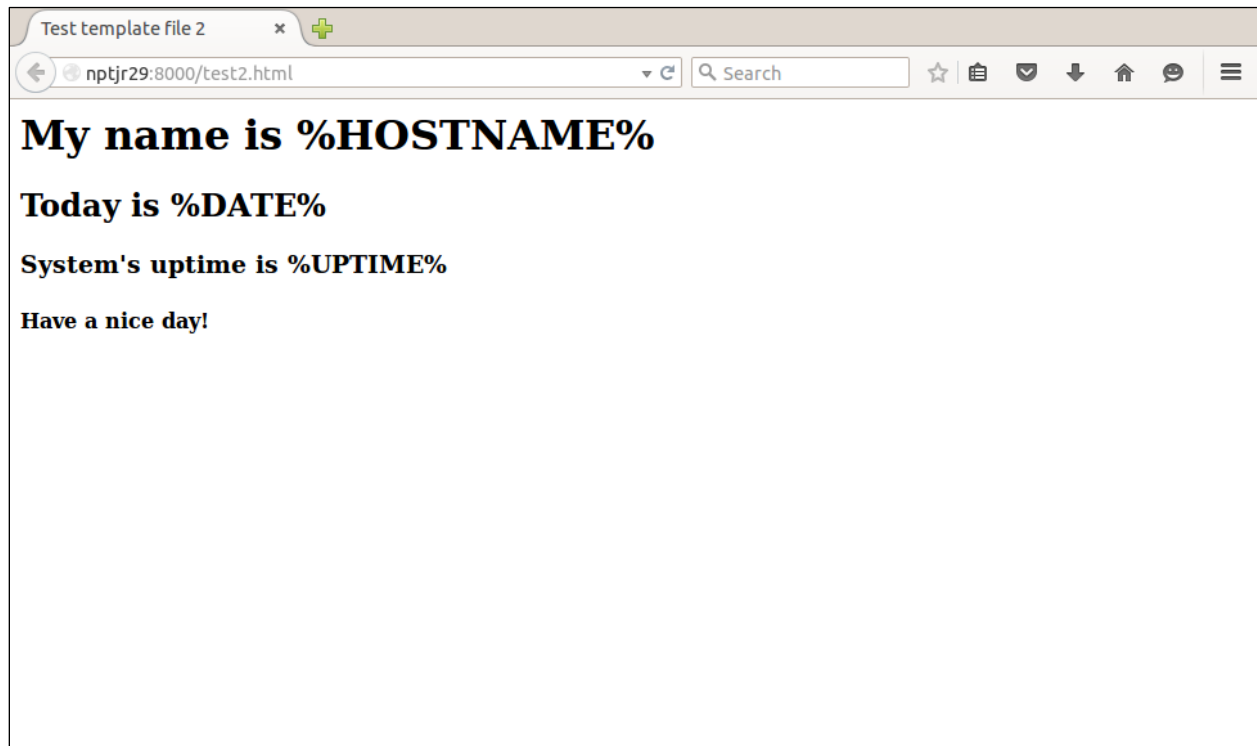
a) The status page



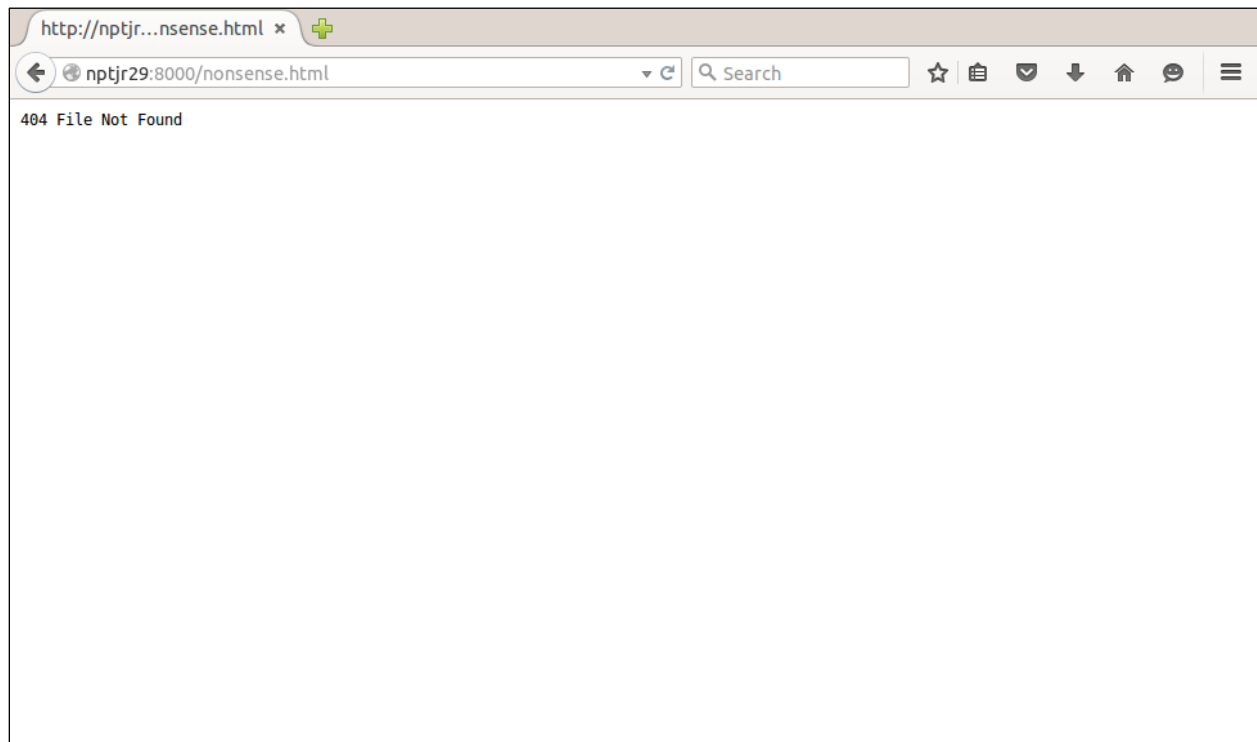
b) test1.html

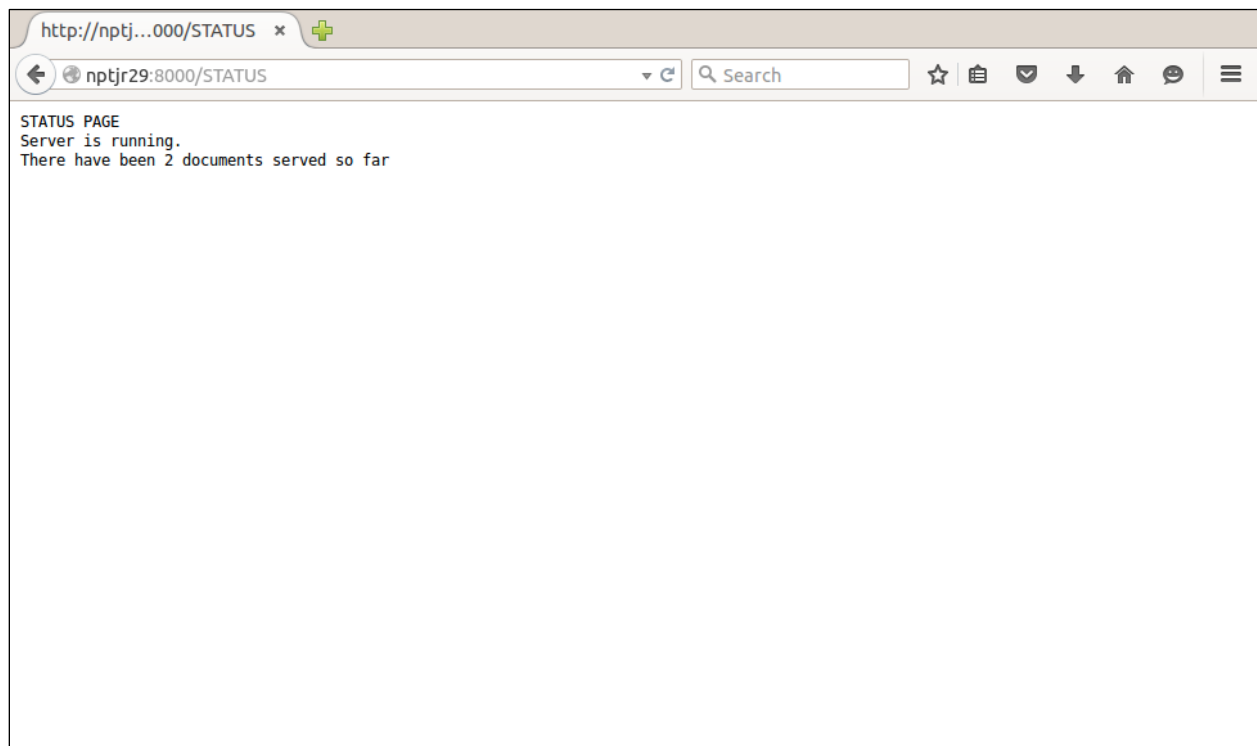


c) test2.html



d) nonsense.html (file does not exist)



e) The status page**3. The program's standard output**

```
nptjr29@nptjr29:~/Project4$ python server.py
Sent STATUS
Sent test1.html
Sent test2.html
Could not find nonsense.html
Sent STATUS
█
```