

ENCS3320: Computer Networks 2023/2024 Section 1 Project #1 Report

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Part one:

1. <u>Ping:</u>is a network utility that checks the connection between two devices by sending an Internet Control Message Protocol (ICMP) echo request and waiting for a response.

<u>Tracert:</u> (or traceroute) traces the route that packets take from your computer to a destination, showing the network hops in between.

Nslookup: is a command-line tool for querying Domain Name System (DNS) to obtain domain name or IP address information.

<u>Telnet</u>: is a protocol that allows you to connect to and interact with a remote computer as if you were physically present, but it's less secure compared to SSH.re

2.1.

```
C:\Users\Tala Dabbagh>ping 79.178.57.74

Pinging 79.178.57.74 with 32 bytes of data:
Reply from 79.178.57.74: bytes=32 time=7ms TTL=64
Reply from 79.178.57.74: bytes=32 time=1ms TTL=64
Reply from 79.178.57.74: bytes=32 time=3ms TTL=64
Reply from 79.178.57.74: bytes=32 time=2ms TTL=64

Ping statistics for 79.178.57.74:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 7ms, Average = 3ms
```

The results indicate a successful communication with the destination, with all four packets sent receiving replies. The round-trip times, ranging from 1ms to 7ms, with an average of 3ms, suggest a low-latency connection,

characteristic of a local or nearby network. The absence of packet loss (0%) further supports the reliability of the connection.

Based on the ping results, and my IP address 79.178.57.74 is assigned to my device in Palestine, it is evident that the response is not from the USA. The low round-trip times (1ms to 7ms) indicate a relatively low-latency connection, which is consistent with a local or nearby network. Therefore, the response is from Palestine, not the USA.

2.2

```
C:\Users\Tala Dabbagh>ping www.cornell.edu

Pinging part-0015.t-0009.t-msedge.net [13.107.213.43] with 32 bytes of data:

Reply from 13.107.213.43: bytes=32 time=18ms TTL=119

Reply from 13.107.213.43: bytes=32 time=19ms TTL=119

Reply from 13.107.213.43: bytes=32 time=18ms TTL=119

Reply from 13.107.213.43: bytes=32 time=21ms TTL=119

Ping statistics for 13.107.213.43:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 18ms, Maximum = 21ms, Average = 19ms
```

The ping command tested the connectivity to the domain www.cornell.edu, which resolved to mylP address 13.107.213.43. The results indicate successful communication with the destination, with all four packets sent receiving replies. The round-trip times range from 18ms to 21ms, with an average of 19ms, suggesting a moderate latency connection. The absence of packet loss (0%) further supports the reliability of the connection.

The distance from Palestine to the USA is 10,853 km.

To estimate the round-trip time (RTT) based on distance:

One-way latency = Distance / Propagation Speed

Let's assume the propagation speed is close to the speed of light in fiber optic cables, which is approximately 2×10⁸ meters per second.

One-way latency = $10,853,000 (m) / 2 \times 10^8 (m/s)$

One-way latency $\approx 0.054265(s)$

to estimate round trip time:

RTT = 2×One-way latency

RTT $\approx 2 \times 0.054265$ seconds

RTT \approx 0.10853 seconds

RTT ≈ 108.53 milliseconds

So, based on the simplified model, the estimated round-trip time for a distance of 10,853 km is approximately 108.53 milliseconds, which is for sure not accurate but could give us an idea.

The observed round-trip time of 19 milliseconds is relatively low, indicating a quick response and low latency, which suggests that the destination server is physically closer than the USA to us.

```
C:\Users\Tala Dabbagh>tracert www.cornell.edu
Tracing route to part-0015.t-0009.t-msedge.net [13.107.213.43]
over a maximum of 30 hops:
     134 ms
               92 ms
                        71 ms
                               myhome.mynet [10.0.0.138]
                               bzq-179-37-1.cust.bezeqint.net [212.179.37.1]
      81 ms
               89 ms
                        97 ms
     111 ms
               70 ms
                        83 ms
                               10.250.91.25
                               bzq-25-77-22.cust.bezeqint.net [212.25.77.22]
               40 ms
                        59 ms
     110 ms
  5
                               10.250.109.5
                        25 ms
      82 ms
              132 ms
      214 ms
                               ae60-0.ier01.tlv31.ntwk.msn.net [104.44.196.231]
              223 ms
                        27 ms
               57 ms
                        31 ms
                               ae26-0.rwa05.tlv20.ntwk.msn.net [104.44.231.242]
     133 ms
  8
      287 ms
               27 ms
                        23 ms
                               ae22-0.ier01.tlv30.ntwk.msn.net [104.44.231.250]
 9
     115 ms
               33 ms
                        23 ms 13.104.140.42
                               Request timed out.
 10
                *
                         *
       *
 11
               70 ms
     219 ms
                        94 ms 13.107.213.43
Trace complete.
C:\Users\Tala Dabbagh>
                       Q Search
                                  <u>•₩</u> 🕮 😥 💼 🤨 🗒 💆 🖂
```

The tracert output traces the route from a local computer to www.cornell.edu. It begins at the local router, passes through an ISP's network, navigates Microsoft's network, and reaches the destination server at 13.107.213.43. The varying response times indicate the duration for each hop. "Request timed out" suggests some routers didn't respond, which is common and may not indicate an issue.

```
C:\Users\Tala Dabbagh>nslookup www.cornell.edu
        myhome.mynet
Server:
Address:
         10.0.0.138
                                        Non-authoritative answer:
Name:
        part-0015.t-0009.t-msedge.net
Addresses: 2620:1ec:bdf::43
         2620:1ec:46::43
         13.107.246.43
         13.107.213.43
         www.cornell.edu
Aliases:
         cornell-edge-ekhkdhg5czdmb2bf.z01.azurefd.net
         star-azurefd-prod.trafficmanager.net
         shed.dual-low.part-0015.t-0009.t-msedge.net
                           Q Search
```

The nslookup output shows the domain resolution information for www.cornell.edu.

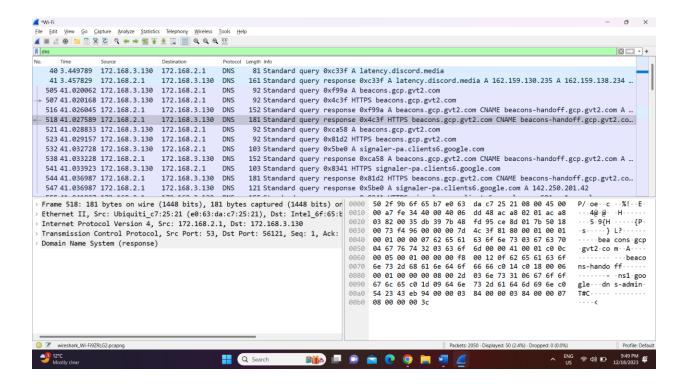
The DNS server used is myhome.mynet with the IP address 10.0.0.138. The "non-authoritative answer" section provides the resolved IP addresses for www.cornell.edu:

IPv6 Addresses: 2620:1ec:bdf::43, 2620:1ec:46::43

• IPv4 Addresses: 13.107.246.43, 13.107.213.43

Additionally, it shows "aliases" associated with www.cornell.edu, including cornell-edge-ekhkdhg5czdmb2bf.z01.azurefd.net and star-azurefd-prod.trafficmanager.net, suggesting the involvement of Microsoft Azure's content delivery network (CDN) infrastructure in serving Cornell University's website. The shed.dual-low.part-0015.t-0009.t-msedge.net alias points to the specific server handling the request within the Microsoft Edge server network.

3. General look

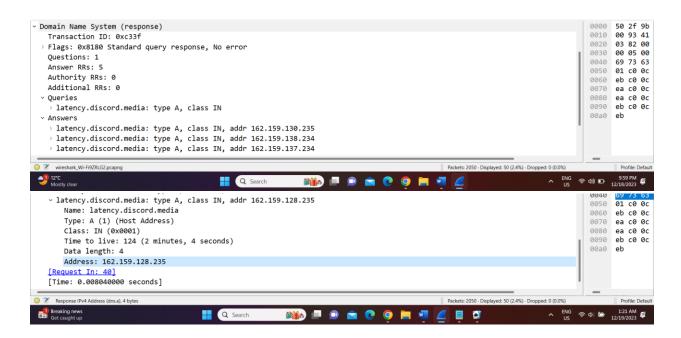


- 172.168.2.1 = represents the DNS Server of my wifi which is in student housing.
- 172.168.3.130 = represents the IP address of my device
- "Src Port" represents the standard DNS which is 53.
- The Destination Port is 55741, where the DNS response is being sent.

Closer look(capture 1):



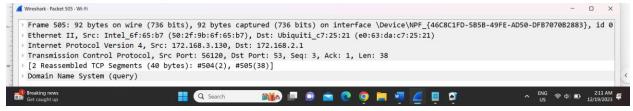
In this DNS capture (Frame 41), a 161-byte packet was sent from source IP 172.168.2.1 to destination IP 172.168.3.130 using UDP ports source 53 and destination 55741. The packet is a DNS response, originating from MAC address e0:63:da:c7:25:21. And, the network packet is using Internet Protocol version 4 (IPv4).



Domain Name System (DNS) Response:

This DNS response contains information related to the DNS query made between the source and destination IP addresses. Every packet is given a transaction ID, in this case it's "0xc33f". The flags indicate a successful standard query response. The server can perform queries, and there's one question and five answer resource records for "latency.discord.media" with associated IP addresses. Each answer has a Time to Live of 124 seconds. The response, which took 0.00804 seconds, shows no errors in the query process.

Closer look(capture 2):



In this DNS capture (Frame 505), a 92-byte packet was sent from source IP 172.168.3.130 (my computer) to destination 172.168.2.1 using Transmission Control Protocol (TCP) source port 56120, destination port 53, a sequence number of 3, acknowledgment number of 1, and a length of 38 bytes.



This DNS query has a length of 38 bytes, and a transaction ID of 0xf99a. The flags indicate a standard query, with one question, zero answer resource records (RRs), zero authority RRs, and zero additional RRs. It requests the IPv4 address for "beacons.gcp.gvt2.com" using the standard query format within the IN class. The response is expected to be in Frame 516.



This information indicates the reconstruction of TCP segments within the captured frames. Specifically, two TCP segments from Frame 504 (2 bytes) and Frame 505 (38 bytes) have been combined, forming a total reconstructed TCP length of 40 bytes. The hexadecimal data at the end represents the content of the rebuilt TCP data, which is likely containing encoded information related to a DNS query.

Part Two:

This is the TCP client and server code to implement the request:

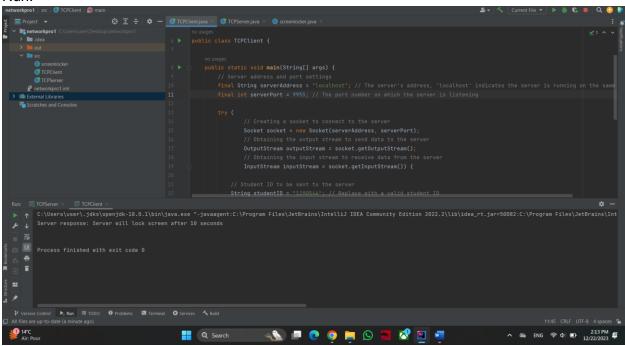
TCP Client Code:

This code is a TCP client. It is designed to connect to a TCP server running on the local machine (localhost) at port 9955. The client establishes a socket connection to the server and then obtains both output and input streams for sending and receiving data, respectively. The client sends a student ID, which is a string "1190546", to the server via the output stream. It then waits for a response from the server, reading it through the input stream into a buffer. Once the response is received, the client reads the bytes from the buffer up to the number of bytes read, converts them into a string, and prints out the server's response to the console.

```
public class TCPClient {
           int bytesRead = inputStream.read(buffer);
           System.out.println("Server response: " + new String(buffer, 0,
```

```
e.printStackTrace();
}
}
```

Run:



TCP Server Code:

This Java code represents a TCP server that listens for client connections on a specified port, in this case, port 9955. The server is designed to run indefinitely, constantly listening for new connections. Upon accepting a connection from a client, it spawns a new thread to handle the client-server communication without blocking other incoming connections.

Each client connection is processed by the handle Connection method. This method reads data from the client through an input stream into a buffer, expecting to receive a student ID as a string. The received ID is checked against a list of valid IDs in the isValidStudentID method.

If the ID is valid, the server prints a confirmation message to its console, sends a response to the client indicating that the screen will lock after 10 seconds, and then simulates a screen lock (using a hypothetical screenlocker.lockScreen() method not implemented in this snippet). If the ID is not valid, the server sends an error message back to the client.

```
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.net.ServerSocket;
import java.net.Socket;
```

```
try (ServerSocket serverSocket = new ServerSocket(port)) { // Create
   private static void handleConnection(Socket clientSocket) {
           byte[] buffer = new byte[1024]; // Buffer to store data read from
           int bytesRead = inputStream.read(buffer); // Read data into the
           String message = new String(buffer, 0, bytesRead); // Convert the
           if (isValidStudentID(message)) {
seconds \n".getBytes());
message\n".getBytes());
```

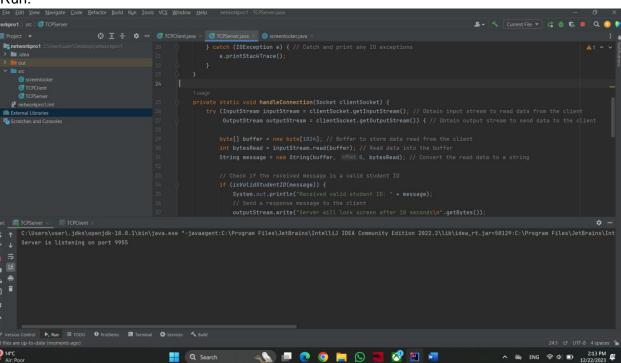
```
e.printStackTrace();
}

private static boolean isValidStudentID(String studentID) {
    // List of valid student IDs
        String[] validStudentIDs = {"1190546", "1190547", "1190548"}; //
Expand the list as needed

    // Check if the received student ID is in the list of valid IDs
    for (String validID : validStudentIDs) {
        if (studentID.equals(validID)) {
            return true; // The ID is valid
        }
    }

    return false; // The ID is invalid
}
```

Run:



lock screen code:

This Java code snippet defines a class named screen locker with a static method lock Screen() that locks the user's screen. The method determines the operating system of the user's machine by checking the system property os.name. If the operating system is identified as Windows, it proceeds to lock the screen by calling another static method within the class, lockWindowsScreen().

The lockWindowsScreen() method uses the Runtime.getRuntime().exec() function to execute a system-specific command, rundll32.exe user32.dll,LockWorkStation, which is the command in Windows for locking the workstation/screen. After executing the command, the method waits for the process to complete and checks the exit code to determine if the operation was successful. An exit code of 0 indicates success, and it prints a confirmation message to the console. If the process does not succeed, it prints an error message.

```
System.out.println("Failed to lock Windows screen");
}
catch (IOException | InterruptedException e) {
    // Catch and print any IO or Interruption exceptions
    e.printStackTrace();
}
}
```

Part Three:

Code Server.py:

```
from os import path
import socket
import threading
def handle_cli_request():
    while True:
        user_input = input("client request (cr, so, rt): ")
        # Check if the input command is one of the predefined commands;
        if user_input in ['cr', 'so', 'rt']:
            # Dictionary mapping input commands to URL for redirection
            redirect_urls = {
                'cr': 'https://www.cornell.edu',
                'so': 'https://stackoverflow.com',
                'rt': 'https://ritaj.birzeit.edu'
            # Prepare the HTTP header
            header = f'Header : HTTP/1.1 307 Temporary Redirect\nLocation:
{redirect_urls[user_input]}\n\n'
            print(header) # Print the header to the CLI.
# function to handle incoming HTTP requests.
def handle_http_request(connection, address):
    request = connection.recv(1024).decode('utf-8')
    # Split the request string
    string_list = request.split(' ')
    method = string list[0] # extract the HTTP method
```

```
requesting_file = string_list[1] # extract the requested file or command.
   # Print the full client request
   print('\nFull Client Request:\n', request)
   # Parse the file from the request URL, ignoring query parameters
   myfile = requesting_file.split('?')[0]
   myfile = myfile.lstrip('/') # Remove the leading slash.
   # Default file assignments based on the request.
   if myfile == '' or myfile == 'en':
       myfile = 'main en.html'
   elif myfile == 'ar':
       myfile = 'main ar.html'
   # Check if the request for one of the predefined redirects
   elif myfile in ['cr', 'so', 'rt']:
        # map the commands to their respective URL
       redirect_urls = {'cr': 'https://www.cornell.edu', 'so':
https://stackoverflow.com', 'rt': 'https://ritaj.birzeit.edu'}
        # Prepare the HTTP redirection header.
       header = f'HTTP/1.1 307 Temporary Redirect\nLocation:
{redirect urls[myfile]}\n\n'
       # Encode the response to bytes and send it
       final_response = header.encode('utf-8')
        connection.send(final response)
        connection.close()
        return
   # read the requested file.
   try:
       with open(myfile, 'rb') as file:
            response = file.read()
        header = 'HTTP/1.1 200 OK\n' # Start preparing a success header
        if myfile.endswith(".jpg"):
            mimetype = 'image/jpeg'
        elif myfile.endswith(".png"):
           mimetype = 'image/png'
        elif myfile.endswith(".css"):
           mimetype = 'text/css'
        else:
            mimetype = 'text/html'
        # Append the type to the header.
        header += f'Content-Type: {mimetype}\n\n'
   # Handle the case where the requested file is not found.
   except FileNotFoundError:
       # Prepare a custom 404 error HTML response
```

```
error response = f"""<!DOCTYPE html>
                    <html lang="en">
                    <head>
                        <meta charset="UTF-8">
                        <meta http-equiv="X-UA-Compatible" content="IE=edge">
                        <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
                        <title>Error 404</title>
                        <style>
                            body {{ font-family: Arial, sans-serif; text-align:
center; }}
                            .error-message {{ color: red; }}
                            .client-info {{ font-weight: bold; }}
                        </style>
                    </head>
                    <body>
                        <h1>HTTP/1.1 404 Not Found</h1>
                        <h2 class="error-message">The file is not found</h2>
                        <div class="client-info">
                            1190546 - oday khallaf
                            1200609 - anwaar gasem 
                            1200620 - tala dabbagh 
                            {address[0]}:{address[1]}
                        </div>
                    </body>
                    </html>"""
        header = 'HTTP/1.1 404 Not Found\n\n' # Prepare the error header.
        # Encode the error response to bytes.
        response = error response.encode('utf-8')
    # Combine the header and the response content.
    final_response = header.encode('utf-8') + response
    # Send the final response to the client.
    connection.send(final response)
    connection.close() # Close the client connection.
# Set up the socket for the server.
HOST, PORT = '127.0.0.1', 9966 # Define port for the server;
# Create a socket object supporting IPv4 and TCP protocols
my_socket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
my socket.setsockopt(socket.SOL SOCKET, socket.SO REUSEADDR, 1)
my_socket.bind((HOST, PORT)) # Bind the socket to the host and port
my_socket.listen(1) # Start listening for incoming connections
print('Serving on port ', PORT)
```

```
# Start the CLI request
cli thread = threading.Thread(target=handle cli request)
cli_thread.start()
# start listening for network requests.
try:
   while True:
        # Accept an incoming connection
        connection, address = my socket.accept()
        # Start a new thread to handle the HTTP request.
        thread = threading.Thread(target=handle_http_request, args=(connection,
address))
        thread.start()
except KeyboardInterrupt:
    # Handle a keyboard interrupt to shut down the server gracefully.
    print("Server is shutting down.")
    my_socket.close()
```

main_en.html code:

```
<link rel="stylesheet" href="dist/css/style.css">
    <script
src="https://unpkg.com/scrollreveal@4.0.0/dist/scrollreveal.min.js"></script>
</head>
<body class="is-boxed has-animations">
    <div class="body-wrap boxed-container">
        <header class="site-header">
            <div class="container">
                <div class="site-header-inner">
                    <div class="brand header-brand">
                         <h1 class="m-0">
                             <a href="#">
                                 <img class="header-logo-image asset-light"</pre>
width="50" height="50" src="img/logo.png" alt="Logo">
                                 <img class="header-logo-image asset-dark"</pre>
width="32" height="32" src="img/logo.png" alt="Logo">
                             </a>
                         </h1>
                    </div>
                </div>
            </div>
        </header>
            <section class="hero" style="background-color: antiquewhite;">
                <div class="container">
                    <div class="hero-inner">
                         <div class="hero-copy">
                             <h1 class="hero-title mt-0">Welcome to our course <h1
style="color: blue;">Computer Networks, This is a tiny webserver</h1></h1></h1>
                            <div class="hero-cta">
                                 <!-- <a class="button button-primary"
href="#">Buy it now</a> -->
                                 <div class="lights-toggle">
                                     <input id="lights-toggle" type="checkbox"</pre>
name="lights-toggle" class="switch" checked="checked">
                                 </div>
                             </div>
                         </div>
                         <div class="hero-media">
                            <div class="header-illustration">
```

```
<!-- <img class="header-illustration-image asset-
light" src="img/header2.png" alt="Header illustration">
                                 <img class="header-illustration-image asset-dark"</pre>
src="img/header2.png" alt="Header illustration"> -->
                             </div>
                             <!-- <div class="hero-media-illustration">
                                 <img class="hero-media-illustration-image asset-</pre>
light" width="300" height="300" src="img/n3.png" alt="Hero media illustration">
                                 <img class="hero-media-illustration-image asset-</pre>
dark" width="300" height="300" src="img/n3.png" alt="Hero media illustration">
                             </div>
                             <div class="hero-media-illustration">
                                 <img class="hero-media-illustration-image asset-</pre>
light" width="300" height="300" src="img/n1.png" alt="Hero media illustration">
                                 <img class="hero-media-illustration-image asset-</pre>
dark" width="300" height="300" src="img/n1.png" alt="Hero media illustration">
                             </div>
                             <div class="hero-media-container">
                                 <img class="hero-media-image asset-light"</pre>
width="400" height="400" src="img/logo2.jpg" alt="Hero media">
                                 <img class="hero-media-image asset-dark"</pre>
width="400" height="400" src="img/logo2.jpg" alt="Hero media">
                             </div>
                         </div>
                    </div>
                </div>
            </section>
            <section class="features section">
                <div class="container">
                    <div class="features-inner section-inner has-bottom-divider">
                         <div class="features-header text-center">
                             <div class="container-sm">
                                 <div class="features-image">
                                     <img class="features-illustration asset-dark"</pre>
width="100" height="100" src="img/idea.png" alt="Feature illustration">
                                     <!-- <img class="features-box asset-dark"
width="200" height="200" src="img/group.png" alt="Feature box"> -->
                                     <!-- <img class="features-illustration asset-
dark" src="dist/images/features-illustration-top-dark.svg" alt="Feature
illustration top"> -->
```

```
<img class="features-illustration asset-</pre>
light" width="100" height="100" src="img/idea.png" alt="Feature
<!-- <img class="features-box asset-light"
src="dist/images/features-box-light.svg" alt="Feature box"> -->
                                  <!-- <img class="features-illustration asset-
light" src="dist/images/features-illustration-top-light.svg" alt="Feature
illustration top"> -->
                              </div>
                           </div>
                       </div>
                       <div class="features-wrap" style="margin-top: 250px;" >
                           <div class="feature is-revealing">
                               <div class="feature-inner">
                                  <div class="feature-content" style="border:</pre>
2px solid black; width: 800px;height: 200px;">
                                      <h3 class="feature-title mt-0">1190546 -
oday khallaf </h3>
                                      I'am a computer
sinece student, i like managing and programming My skills include digital
marketing and design, and I took several courses in the field of front-end and QA
,I worked on several projects in data base, structure, and the web field
                                   </div>
                               </div>
                           </div>
                           <div class="feature is-revealing">
                               <div class="feature-inner">
                                  <div class="feature-content" style="border:</pre>
2px solid black; width: 800px;height: 200px;">
                                      <h3 class="feature-title mt-0">1200609-
anwaar qasem</h3>
                                       I'am a computer
scinece student, I like reading , and drawing and I took several courses in the
field Programming I worked on several projects algorithm
                                  </div>
                               </div>
                           </div>
                           <div class="feature is-revealing">
                               <div class="feature-inner">
                                  <div class="feature-content" style="border:</pre>
2px solid black; width: 800px; height: 150px;">
```

```
<h3 class="feature-title mt-0">1200620-
tala dabbagh</h3>
                                        I'am a computer
sinece student I like Photography , My skills are problem solving and time
management, and I took courses in Backend
                                   </div>
                               </div>
                           </div>
                       </div>
                   </div>
               </div>
           </section>
           <section class="cta section">
               <div class="container-sm">
                   <div class="cta-inner section-inner">
                       <div class="cta-header text-center "style="border: 2px</pre>
solid black; width: 800px;height: 800px;">
                           <h2 class="section-title mt-0">Content-Type
header</h2>
                           The Content-Type header
in an HTTP request, as specified in RFC 2616 (which covers HTTP/1.1), is used to
indicate the media type of the body of the request. This header is important
because it tells the server what the data actually is and how it should be
processed. In technical terms, the Content-Type header specifies the MIME type of
the content.
                               Here are a few key points about the Content-Type
header:
                               Identification of Data Format: It helps the
server understand the format of the data sent in the request. This could be a
format like text/html, application/json, image/jpeg, etc.
                               Data Processing: Based on the Content-Type, the
server can correctly process the data. For example, if the Content-Type is
application/json, the server can parse the body as a JSON object.
                               Ensuring Compatibility: It ensures that the data
is compatible with the receiving end. If the server expects a certain type of
content and receives a different type, it can lead to errors in data processing.
```

protocol's way of ensuring that both the client and the server are in agreement

about the type of data being communicated.

Client-Server Agreement: It's part of the HTTP

```
In summary, the Content-Type header in an HTTP
request is crucial for correctly conveying the type of the content in the request
body, enabling the server to process it appropriately.
                          <div class="cta-cta">
                              <a class="button button-primary"</pre>
href="https://datatracker.ietf.org/doc/html/rfc2616" target=" blank">Learn
more</a>
                          </div>
                      </div>
                  </div>
               </div>
           </section>
       </main>
       <footer class="site-footer has-top-divider"style="background-</pre>
color:antiquewhite;">
           <div class="container">
               <div class="site-footer-inner">
                  <div class="brand footer-brand">
                      <a href="#">
                          <img class="asset-light" height="100" width="100"</pre>
src="img/logo2.jpg" alt="Logo">
                          <img class="asset-dark" height="100" width="100"</pre>
src="img/logo2.png" alt="Logo">
                      </a>
                  </div>
                  <1i>>
                          <a href="#">Contact</a>
                      <1i>>
                          <a href="#">About us</a>
                      <1i>>
                          <a href="#">FAQ's</a>
                      <1i>>
                          <a href="#">Support</a>
                      <
                          <a href="#">
                             <span class="screen-reader-text">Facebook</span>
```

```
<svg width="16" height="16"</pre>
xmlns="http://www.w3.org/2000/svg">
                                     <path d="M6.023 16L6 9H3V6h3V4c0-2.7 1.672-4</pre>
4.08-4 1.153 0 2.144.086 2.433.124v2.821h-1.67c-1.31 0-1.563.623-1.563
1.536V6H13l-1 3H9.28v7H6.023z" fill="#FFF"/>
                                 </svg>
                             </a>
                        <
                             <a href="#">
                                 <span class="screen-reader-text">Twitter</span>
                                 <svg width="16" height="16"</pre>
xmlns="http://www.w3.org/2000/svg">
                                     <path d="M16 3c-.6.3-1.2.4-1.9.5.7-.4 1.2-1</pre>
1.4-1.8-.6.4-1.3.6-2.1.8-.6-.6-1.5-1-2.4-1-1.7 0-3.2 1.5-3.2 3.3 0 .3 0 .5.1.7-
2.7-.1-5.2-1.4-6.8-3.4-.3.5-.4 1-.4 1.7 0 1.1.6 2.1 1.5 2.7-.5 0-1-.2-1.5-.4C.7
7.7 1.8 9 3.3 9.3c-.3.1-.6.1-.9.1-.2 0-.4 0-.6-.1.4 1.3 1.6 2.3 3.1 2.3-1.1.9-2.5
1.4-4.1 1.4H0c1.5.9 3.2 1.5 5 1.5 6 0 9.3-5 9.3-9.3v-.4C15 4.3 15.6 3.7 16 3z"
fill="#FFF"/>
                                 </svg>
                            </a>
                        <1i>>
                             <a href="#">
                                 <span class="screen-reader-text">Google</span>
                                 <svg width="16" height="16"</pre>
xmlns="http://www.w3.org/2000/svg">
                                     <path d="M7.9 7v2.4H12c-.2 1-1.2 3-4 3-2.4 0-</pre>
4.3-2-4.3-4.4 0-2.4 2-4.4 4.3-4.4 1.4 0 2.3.6 2.8 1.1l1.9-1.8C11.5 1.7 9.9 1 8 1
4.1 1 1 4.1 1 8s3.1 7 7 7c4 0 6.7-2.8 6.7-6.8 0-.5 0-.8-.1-1.2H7.9z"
fill="#FFF"/>
                                 </svg>
                             </a>
                        <div class="footer-copyright">&copy; 2023 / 2024</div>
                </div>
            </div>
        </footer>
    </div>
    <script src="dist/js/main.min.js"></script>
</body>
</html>
```

main_ar.html code:

```
<!DOCTYPE html>
<html lang="en" class="no-js">
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>ENCS3320-خادم ويب بسيط</title>
    link
href="https://fonts.googleapis.com/css?family=Heebo:400,700|IBM+Plex+Sans:600"
rel="stylesheet">
    <link rel="stylesheet" href="dist/css/style.css">
    <script
src="https://unpkg.com/scrollreveal@4.0.0/dist/scrollreveal.min.js"></script>
</head>
<body class="is-boxed has-animations">
    <div class="body-wrap boxed-container">
        <header class="site-header">
            <div class="container">
                <div class="site-header-inner">
                    <div class="brand header-brand">
                         <h1 class="m-0">
                            <a href="#">
                                 <img class="header-logo-image asset-light"</pre>
width="50" height="50" src="img/logo.png" alt="Logo">
                                 <img class="header-logo-image asset-dark"</pre>
width="32" height="32" src="img/logo.png" alt="Logo">
                             </a>
                        </h1>
                    </div>
                </div>
            </div>
        </header>
            <section class="hero">
                <div class="container">
```

```
<div class="hero-inner">
                          <div class="hero-copy">
                              h1 >مرحبا بكم في الدورة لدينا <"ht class="hero-title mt-0">
style="color: blue;">منبكات الكمبيوتر، هذا خادم ويب صغير (\h1></h1></h1></h1></h1></h1></h1></h1>
                              <div class="hero-cta">
                                  <!-- <a class="button button-primary"
href="#">Buy it now</a> -->
                                  <div class="lights-toggle">
                                       <input id="lights-toggle" type="checkbox"</pre>
name="lights-toggle" class="switch" checked="checked">
                                      <label for="lights-toggle" class="text-</pre>
xs"><span>Turn me <span class="label-text">dark</span></span></label>
                                  </div>
                              </div>
                          </div>
                          <div class="hero-media">
                              <div class="header-illustration">
                                  <!-- <img class="header-illustration-image asset-
light" src="img/header2.png" alt="Header illustration">
                                  <img class="header-illustration-image asset-dark"</pre>
src="img/header2.png" alt="Header illustration"> -->
                              </div>
                              <!-- <div class="hero-media-illustration">
                                  <img class="hero-media-illustration-image asset-</pre>
light" width="300" height="300" src="img/n3.png" alt="Hero media illustration">
                                  <img class="hero-media-illustration-image asset-</pre>
dark" width="300" height="300" src="img/n3.png" alt="Hero media illustration">
                              </div>
                              <div class="hero-media-illustration">
                                  <img class="hero-media-illustration-image asset-</pre>
light" width="300" height="300" src="img/n1.png" alt="Hero media illustration">
                                  <img class="hero-media-illustration-image asset-</pre>
dark" width="300" height="300" src="img/n1.png" alt="Hero media illustration">
                              </div>
                              <div class="hero-media-container">
                                  <img class="hero-media-image asset-light"</pre>
width="400" height="400" src="img/logo2.jpg" alt="Hero media">
                                  <img class="hero-media-image asset-dark"</pre>
width="400" height="400" src="img/logo2.jpg" alt="Hero media">
                              </div>
                          </div>
                     </div>
                 </div>
```

```
</section>
            <section class="features section">
                <div class="container">
                     <div class="features-inner section-inner has-bottom-divider">
                         <div class="features-header text-center">
                             <div class="container-sm">
                                 <div class="features-image">
                                     <img class="features-illustration asset-dark"</pre>
width="100" height="100" src="img/idea.png" alt="Feature illustration">
                                     <!-- <img class="features-box asset-dark"
width="200" height="200" src="img/group.png" alt="Feature box"> -->
                                     <!-- <img class="features-illustration asset-
dark" src="dist/images/features-illustration-top-dark.svg" alt="Feature"
illustration top"> -->
                                     <img class="features-illustration asset-</pre>
light" width="100" height="100" src="img/idea.png" alt="Feature
<!-- <img class="features-box asset-light"
src="dist/images/features-box-light.svg" alt="Feature box"> -->
                                     <!-- <img class="features-illustration asset-
light" src="dist/images/features-illustration-top-light.svg" alt="Feature
illustration top"> -->
                                 </div>
                             </div>
                         </div>
                         <div class="features-wrap"</pre>
                             <div class="feature is-revealing">
                                 <div class="feature-inner">
                                     <div class="feature-content" style="border:</pre>
2px solid black; width: 800px;height: 200px;">
                                         <h3 class="feature-title mt-0">1190546 -
</h3>>عدى خلاف
                                         أنا طالب في مجال الكمبيوتر ،  .
أحب الإدارة والبرمجة، وتشمل مهاراتي التسويق الرقمي والتصميم، وأخذت عدة دورات في مجال الواجهة الأمامية وضمان الجودة، وعملت في
عدة مشاريع في قواعد البيانات والبنية والويب مجال
                                     </div>
                                 </div>
                             </div>
                             <div class="feature is-revealing">
                                 <div class="feature-inner">
```

```
<div class="feature-content" style="border:</pre>
2px solid black; width: 800px; height: 200px; ">
                                                 <h3 class="feature-title mt-0">1200609-
<h3/>أنوار قاسم
                                                 انا طالبة علوم حاسوب <"p class="text-sm mb-0">
/p> أحب القراءة والرسم وأخذت عدة دورات في مجال البرمجة عملت على عدة مشاريع خوارزمية
                                            </div>
                                       </div>
                                  </div>
                                  <div class="feature is-revealing">
                                       <div class="feature-inner">
                                            <div class="feature-content" style="border:</pre>
2px solid black; width: 800px; height: 150px; ">
                                                 <h3 class="feature-title mt-0">1200620-
</h3>
                                                أنا طالب حاسب آلي أحب  أنا طالب حاسب آلي أحب
التصوير الفوتوغرافي، مهاراتي هي حل المشكلات وإدارة الوقت، وأخذت دورات في الخلفية
                                       </div>
                                  </div>
                             </div>
                        </div>
                   </div>
              </section>
              <section class="cta section">
                   <div class="container-sm">
                        <div class="cta-inner section-inner">
                             <div class="cta-header text-center">
                                  <h2 class="section-title mt-0">خلغة بايثون</h2>
                                  بايثون هي لغة برمجة عالية المستوى 
ومتعددة الأغراض معروفة بسهولة القراءة والبساطة في بناء الجملة. تم إنشاؤه بواسطة جويدو فان روسوم وتم إصداره لأول مرة في عام
1991. تؤكد بايثون على سهولة قراءة التعليمات البرمجية من خلال استخدامها الملحوظ للمسافات البيضاء المهمة وتدعم نماذج برمجة متعددة،
بما في ذلك البرمجة الإجرائية والموجهة للكائنات والوظيفية. تستخدم على نطاق واسع لتطوير الويب، وتحليل البيانات، والذكاء الاصطناعي،
نظامًا بيئيًا واسعًا من المكتبات والأطر، مما يجعلها أداة متعددة الاستخدامات للمبرمجين Python والحوسبة العلمية، وأكثر من ذلك، تمتلك
 والمطورين في مختلف المجالات
                                  <div class="cta-cta">
                                       <a class="button button-primary"</pre>
نعلم <"href="https://www.w3schools.com/python/python strings.asp" target=" blank"
<a>>البايثون
                                  </div>
                             </div>
                        </div>
```

```
</div>
           </section>
       </main>
       <footer class="site-footer has-top-divider">
           <div class="container">
               <div class="site-footer-inner">
                  <div class="brand footer-brand">
                      <a href="#">
                          <img class="asset-light" height="100" width="100"</pre>
src="img/logo2.jpg" alt="Logo">
                          <img class="asset-dark" height="100" width="100"</pre>
src="img/logo2.png" alt="Logo">
                      </a>
                  </div>
                  <1i>>
                          <a href="#">نواصل معنا</a>
                      <
                          <a href="#"> حول</a>
                      <1i>>
                          <a href="#">اسألنا</a>
                      <1i>>
                          <a href="#">الدعم</a>
                      <1i>>
                          <a href="#">
                              <span class="screen-reader-text">Facebook</span>
                             <svg width="16" height="16"</pre>
xmlns="http://www.w3.org/2000/svg">
                                 <path d="M6.023 16L6 9H3V6h3V4c0-2.7 1.672-4</pre>
4.08-4 1.153 0 2.144.086 2.433.124v2.821h-1.67c-1.31 0-1.563.623-1.563
1.536V6H13l-1 3H9.28v7H6.023z" fill="#FFF"/>
                          </a>
                      <
                          <a href="#">
                             <span class="screen-reader-text">Twitter</span>
```

```
<svg width="16" height="16"</pre>
xmlns="http://www.w3.org/2000/svg">
                                    <path d="M16 3c-.6.3-1.2.4-1.9.5.7-.4 1.2-1</pre>
1.4-1.8-.6.4-1.3.6-2.1.8-.6-.6-1.5-1-2.4-1-1.7 0-3.2 1.5-3.2 3.3 0 .3 0 .5.1.7-
2.7-.1-5.2-1.4-6.8-3.4-.3.5-.4 1-.4 1.7 0 1.1.6 2.1 1.5 2.7-.5 0-1-.2-1.5-.4C.7
7.7 1.8 9 3.3 9.3c-.3.1-.6.1-.9.1-.2 0-.4 0-.6-.1.4 1.3 1.6 2.3 3.1 2.3-1.1.9-2.5
1.4-4.1 1.4H0c1.5.9 3.2 1.5 5 1.5 6 0 9.3-5 9.3-9.3v-.4C15 4.3 15.6 3.7 16 3z"
fill="#FFF"/>
                                 </svg>
                            </a>
                        <1i>>
                            <a href="#">
                                 <span class="screen-reader-text">Google</span>
                                 <svg width="16" height="16"</pre>
xmlns="http://www.w3.org/2000/svg">
                                    <path d="M7.9 7v2.4H12c-.2 1-1.2 3-4 3-2.4 0-</pre>
4.3-2-4.3-4.4 0-2.4 2-4.4 4.3-4.4 1.4 0 2.3.6 2.8 1.1l1.9-1.8C11.5 1.7 9.9 1 8 1
4.1 1 1 4.1 1 8s3.1 7 7 7c4 0 6.7-2.8 6.7-6.8 0-.5 0-.8-.1-1.2H7.9z"
fill="#FFF"/>
                                 </svg>
                            </a>
                        <div class="footer-copyright">&copy; 2023 / 2024</div>
                </div>
            </div>
        </footer>
    </div>
    <script src="dist/js/main.min.js"></script>
</body>
</html>
```

404.html code:

```
<!DOCTYPE html>
```

```
<html lang="en">
                        <meta charset="UTF-8">
                        <meta http-equiv="X-UA-Compatible" content="IE=edge">
                        <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
                        <title>Error404</title>
                        <link rel="stylesheet" href="style404.css">
                    </head>
                    <body>
                    <div class="main">
                        <svg xmlns="http://www.w3.org/2000/svg"</pre>
xmlns:xlink="http://www.w3.org/1999/xlink" width="470" height="290" viewBox="0 0
470 290">
                            <defs>
                            </defs>
                        </svg>
                        <br>
                        <div class="fooot">
                        <h1 style="font-family: sans-serif; color: red;">The file
is not found</h1>
                        >1190546 - oday khallaf
                        1200609-anwaar qasem
                        1200620-tala dabbagh
                         (127.0.0.1:5500)
                        </div>
                        </div>
                    </body>
                    <script>
                    </script>
                    </html>
```

Style.css:

```
@import 'https://fonts.googleapis.com/css?family=Montserrat:300, 400,
700&display=swap';
    padding: 0;
    margin: 0;
    box-sizing: border-box;
html {
    font-size: 10px;
    font-family: 'Montserrat', sans-serif;
    scroll-behavior: smooth;
a {
    text-decoration: none;
.container {
    min-height: 100vh;
    width: 100%;
    display: flex;
    align-items: center;
    justify-content: center;
img {
    height: 100%;
    width: 100%;
    object-fit: cover;
p {
    color: black;
    font-size: 1.4rem;
    margin-top: 5px;
    line-height: 2.5rem;
    font-weight: 300;
    letter-spacing: 0.05rem;
.section-title {
    font-size: 4rem;
    font-weight: 300;
```

```
color: black;
    margin-bottom: 10px;
    text-transform: uppercase;
    letter-spacing: 0.2rem;
    text-align: center;
.section-title span {
    color: crimson;
.cta {
    display: inline-block;
    padding: 10px 30px;
    color: white;
    background-color: transparent;
    border: 2px solid crimson;
    font-size: 2rem;
    text-transform: uppercase;
    letter-spacing: 0.1rem;
    margin-top: 30px;
    transition: 0.3s ease;
    transition-property: background-color, color;
#student{
    border: 2px solid black;
.cta:hover {
    color: white;
    background-color: crimson;
.brand h1 {
   font-size: 3rem;
    text-transform: uppercase;
    color: white;
.brand h1 span {
    color: crimson;
/* Header section */
#header {
    position:fixed;
    z-index: 1000;
    left: 0;
    top: 0;
```

```
width: 100vw;
    height: auto;
#header .header {
    min-height: 8vh;
    background-color: rgba(31, 30, 30, 0.24);
    transition: 0.3s ease background-color;
#header .nav-bar {
   display: flex;
    align-items: center;
    justify-content: space-between;
    width: 100%;
    height: 100%;
    max-width: 1300px;
    padding: 0 10px;
#header .nav-list ul {
    list-style: none;
    position: absolute;
    background-color: rgb(31, 30, 30);
    width: 100vw;
    height: 100vh;
    left: 100%;
    top: 0;
    display: flex;
    flex-direction: column;
    justify-content: center;
    align-items: center;
    z-index: 1;
    overflow-x: hidden;
    transition: 0.5s ease left;
#header .nav-list ul.active {
    left: 0%;
#header .nav-list ul a {
    font-size: 2.5rem;
    font-weight: 500;
    letter-spacing: 0.2rem;
    text-decoration: none;
    color: white;
    text-transform: uppercase;
    padding: 20px;
    display: block;
```

```
#header .nav-list ul a::after {
    content: attr(data-after);
    position: absolute;
    top: 50%;
    left: 50%;
    transform: translate(-50%, -50%) scale(0);
    color: rgba(240, 248, 255, 0.021);
    font-size: 13rem;
    letter-spacing: 50px;
    z-index: -1;
    transition: 0.3s ease letter-spacing;
#header .nav-list ul li:hover a::after {
    transform: translate(-50%, -50%) scale(1);
    letter-spacing: initial;
#header .nav-list ul li:hover a {
    color: crimson;
#header .hamburger {
   height: 60px;
    width: 60px;
    display: inline-block;
    border: 3px solid white;
    border-radius: 50%;
    position: relative;
    display: flex;
    align-items: center;
    justify-content: center;
    z-index: 100;
    cursor: pointer;
    transform: scale(0.8);
    margin-right: 20px;
#header .hamburger:after {
    position: absolute;
    content: '';
    height: 100%;
    width: 100%;
    border-radius: 50%;
    border: 3px solid white;
    animation: hamburger_puls 1s ease infinite;
#header .hamburger .bar {
```

```
height: 2px;
    width: 30px;
    position: relative;
    background-color: white;
    z-index: -1;
#header .hamburger .bar::after,
#header .hamburger .bar::before {
    content: '';
    position: absolute;
    height: 100%;
    width: 100%;
    left: 0;
    background-color: white;
    transition: 0.3s ease;
    transition-property: top, bottom;
#header .hamburger .bar::after {
    top: 8px;
#header .hamburger .bar::before {
    bottom: 8px;
#header .hamburger.active .bar::before {
    bottom: 0;
#header .hamburger.active .bar::after {
    top: 0;
/* End Header section */
/* Hero Section */
#hero {
    background-image: url(./img/www.jpg);
    background-size: cover;
    background-position: top center;
    position: relative;
    z-index: 1;
#hero::after {
    content: '';
    position: absolute;
    left: 0;
    top: 0;
    height: 100%;
```

```
width: 100%;
    background-color: black;
    opacity: 0.7;
    z-index: -1;
#hero .hero {
   max-width: 1200px;
    margin: 0 auto;
    padding: 0 50px;
    justify-content: flex-start;
#hero h1 {
   display: block;
    width: fit-content;
    font-size: 4rem;
    position: relative;
    color: transparent;
    animation: text_reveal 0.5s ease forwards;
    animation-delay: 1s;
.features-wrap{
    border: 2px solid black;
#hero p {
   display: block;
   width: fit-content;
   text-align: center;
    font-size: 4rem;
    position: relative;
   color: black;
   height: 50px;
    text-align: center;
    padding: 10px;
    top :-30px;
#hero h1:nth-child(1) {
    animation-delay: 1s;
#hero h1:nth-child(2) {
    animation-delay: 2s;
#hero h1:nth-child(3) {
    animation: text_reveal_name 0.5s ease forwards;
    animation-delay: 3s;
```

```
#hero h1 span {
    position: absolute;
    top: 0;
    left: 0;
    height: 100%;
    width: 0;
    background-color: crimson;
    animation: text reveal box 1s ease;
    animation-delay: 0.5s;
#hero h1:nth-child(1) span {
    animation-delay: 0.5s;
#hero h1:nth-child(2) span {
    animation-delay: 1.5s;
#hero h1:nth-child(3) span {
    animation-delay: 2.5s;
/* Keyframes */
@keyframes hamburger_puls {
    0% {
        opacity: 1;
        transform: scale(1);
    100% {
        opacity: 0;
        transform: scale(1.4);
@keyframes text_reveal_box {
    50% {
        width: 100%;
        left: 0;
    100% {
        width: 0;
       left: 100%;
```

```
@keyframes text_reveal {
    100% {
        color: white;
@keyframes text_reveal_name {
    100% {
        color: crimson;
        font-weight: 500;
/* End Keyframes */
/* Media Query For Tablet */
@media only screen and (min-width: 768px) {
    .cta {
        font-size: 2.5rem;
        padding: 20px 60px;
    h1.section-title {
        font-size: 6rem;
    /* Hero */
    #hero h1 {
       font-size: 7rem;
    /* End Hero */
    /* Services Section */
    #services .service-bottom .service-item {
        flex-basis: 45%;
       margin: 2.5%;
    /* End Services Section */
    /* About */
    section #about{
        height: 100%;
        width: 100%;
        position: relative;
        background-image: url(./img/bg3.jpg);
```

```
font-size: 30px;
    color: white;
    font-size: 30px;
#about div h1{
    background-color: gray;
    height:fit-content;
    padding: 20px;
    text-align: center;
    font-size: large;
#about div p{
    color: white;
    font-family: sans-serif;
    font-size: 35px;
    padding: 5px;
    margin: 10px;
    padding: 10px;
    background-color: transparent;
    width: fit-content;
    position: absolute;
    left: 50%;
    transform: translate(-50%);
#about .col-left {
    width: 600px;
    height: 400px;
    padding-left: 60px;
#about .about .col-left .about-img::after {
   left: -45px;
    top: 34px;
    height: 98%;
    width: 98%;
    border: 10px solid crimson;
#about .col-right {
    text-align: left;
    padding: 30px;
#about .col-right h1 {
    text-align: left;
```

```
/* End Media Query For Tablet */
/* Media Query For Desktop */
@media only screen and (min-width: 1200px) {
    #header .hamburger {
        display: none;
    #header .nav-list ul {
        position: initial;
        display: block;
        height: auto;
        width: fit-content;
        background-color: transparent;
    #header .nav-list ul li {
        display: inline-block;
    #header .nav-list ul li a {
        font-size: 1.8rem;
    #header .nav-list ul a:after {
        display: none;
    #services .service-bottom .service-item {
        flex-basis: 22%;
        margin: 1.5%;
  End Media Query For Desktop */
```

Style.css 404:

```
.fundo{
   animation: scales 3s alternate infinite;
   transform-origin: center;
}
```

```
.main{
min-height: 600px;
margin: 0px auto;
width: auto;
max-width: 460px;
display: flex;
align-items: center;
justify-content: center;
.path {
stroke-dasharray: 300;
stroke-dashoffset: 300;
animation: dash 4s alternate infinite;
@keyframes dash{
0%, 30%{
fill: 4B4B62;
stroke-dashoffset: 0;
80%,100%{
fill: transparent;
stroke-dashoffset: -200;
.fooot{
font-family: sans-serif;
position: absolute;
border: 5px solid #fbb868;
border-radius: 10px;
left: 50%;
top:50%;
transform: translate(-50%,50%);
padding: 10px;
text-align: center;
.fooot p{
font-weight: bold;
```

main_en page:



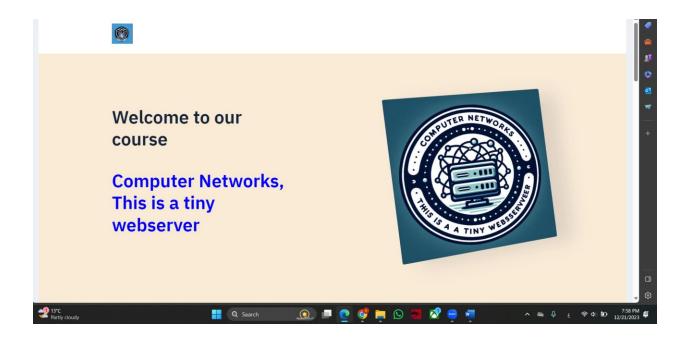
Content-Type header

Content-Type header

The Content-Type header in an HTTP request, as specified in RFC 2616 (which covers HTTP/1-1), is used to indicate the media type of the body of the request. This header is important because it halfs the server what the data actually is and how is should be processed, in technical terms, the Content-Type header people is the MMET type of the content. Here are a few key points about the Content-Type header. Identification of Data Format I help the server understand the format of the data sert in the request. This could be a format like text/html, application/pion, image/jue, set. Oats Processing, Blased on the Content-Type, the server can connectly process the death. For example, if the Content-Type is application/jion, the server can connectly process the data. For example, if the Content-Type is application/jion, the server can parse the body as a 250N object. Ensuring Compatibility it reviews that the data is compatible with the viscoving end. If the server expects a certain type of Content and receives a different byte, it can lead to eners in data processing. Client-Server Agreement: It's part of the HTTP protocol's way of ensuring that both the client and the server are in agreement about the type of data being communicated. In summary, the Content-Type header in an HTTP request is crucial for convecily conveying the type of the content in the request body, enabling the server to process it appropriately.

LEARN HORE





Main_ ar page :



مرحيا يكم في الدورة لدينا شيكات الكمييوتر، هذا خادم ويب صغير





عي هلات - 1190546

الاستقدائي معلى القاميري ، المساولة (دواق معله والشل مواز الى القديق الرافي و القسمية و لمهاد هما من الدين معلى قرامها المساومسان المواثق على ها مشارع في قرات البيانات الإنجاز واليسامة

أتواز قاسم-1200609

ولا النباغ-1200620

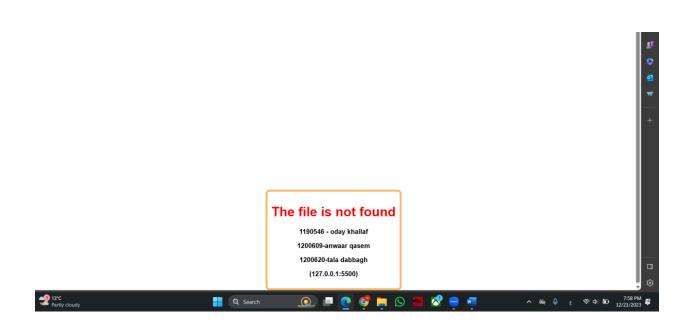
لغة بايثون

الحق المحافظة المستقد المستقد المحافظة المستقد المستقدات المستقدا



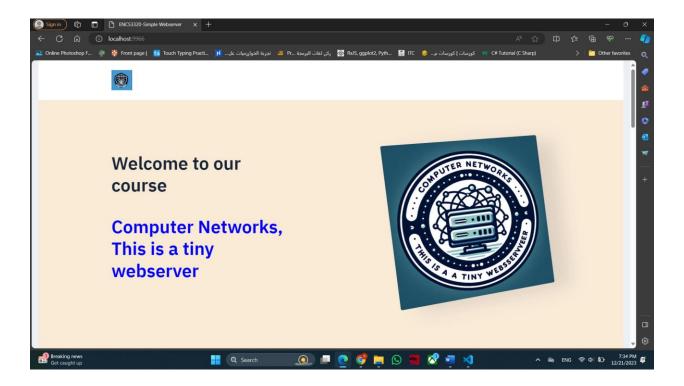


Not Found Page:



Runs:

"c:/Users/user/Desktop/Semester one/Computer Networks!/Project1-Network/Network project 1/server.py"
Serving on port 9966



Cr:

```
Client request (cr, so, rt): cr
Header : HITP/1.1 307 Temporary Redirect
Location: https://www.cornell.edu

Client request (cr, so, rt): 

Ln 41, Col 34 Spaces: 4 UTF-8 LF (1 Python 3.11.7 64-bit (Microsoft Store)  PGo Live  Prettier  

Ln 41, Col 34 Spaces: 4 UTF-8 LF (1 Python 3.11.7 64-bit (Microsoft Store)  PGo Live  Prettier  

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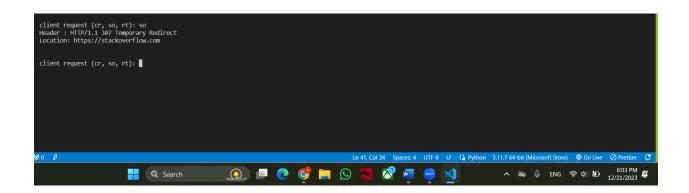
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Ln 41, Col 34 Spaces: 4 UTF-8 LF (1 Python 3.11.7 64-bit (Microsoft Store)  PGO Live  PGO Live
```

So:



Rt:

