Do the following in Wireshark and submit answers to the questions:

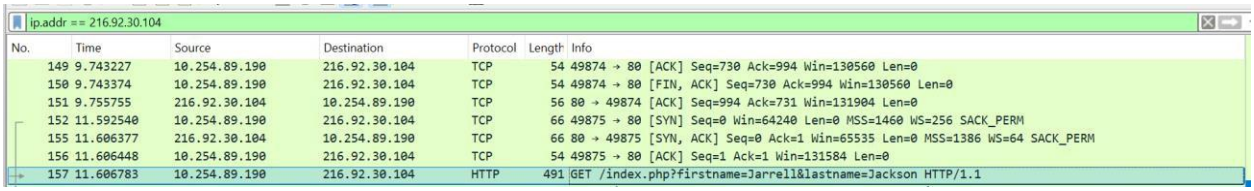
Q1. Use the display filter "dns". Find the packet with the info that says "Standard Query Response" for IT315.girlsgeekout.org. What is the IP address of http://IT315.girlsgeekout.org? Hint: It's the IP address on the far right of the entry, next to "A".

Q2. Use the display filter "ip.addr == " with the IP address of http://IT315.girlsgeekout.org to limit the display to show only traffic to and from http://IT315.girlsgeekout.org. Find the packet where your browser application sent a GET command with your name. How did the website know your first and last name?

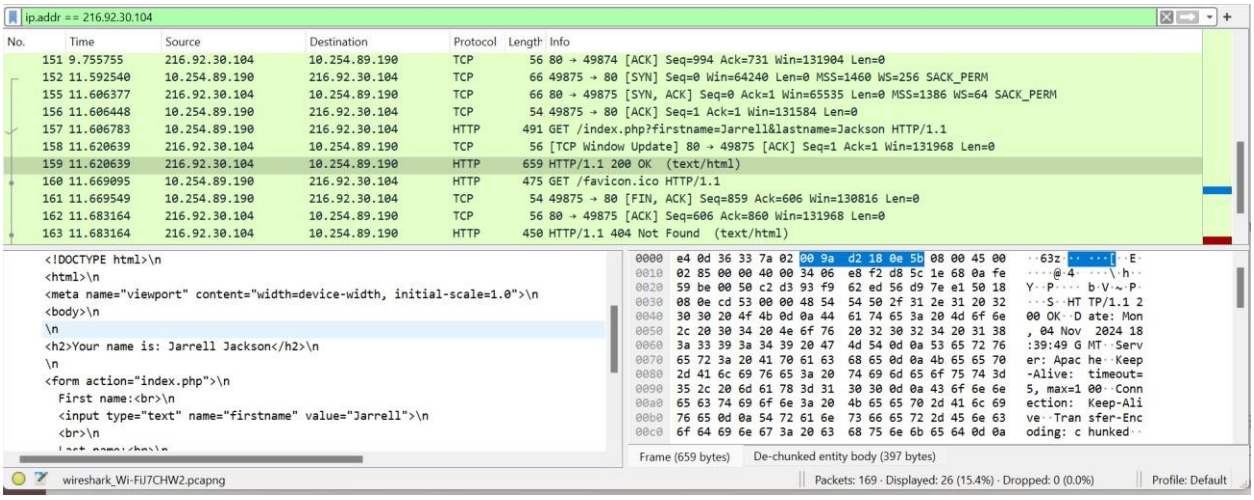
Q3. Find the server's response to that GET command (it should say "HTTP/1.1 200 OK). What type of data is contained in this packet?

Q4. Think about what you have seen in this packet capture. Why is it important to have network traffic encrypted rather than appearing in clear text?

1. The IP address is: 216.92.30.104
2. The website knew my name because I put my first and last name in the boxes.



3. The data is this packet seems to be the HTML code from the website where it displays the information I gave it after clicking submit.



4. **Think about what you have seen in this packet capture. Why is it important to have network traffic encrypted rather than appearing in clear text?** I think its important to encrypt network traffic rather than having it appear in clear text because not only would it be easy for anyone listening on your network to get information but it's also a huge security issue to just have everything non encrypted leaving information just out there.