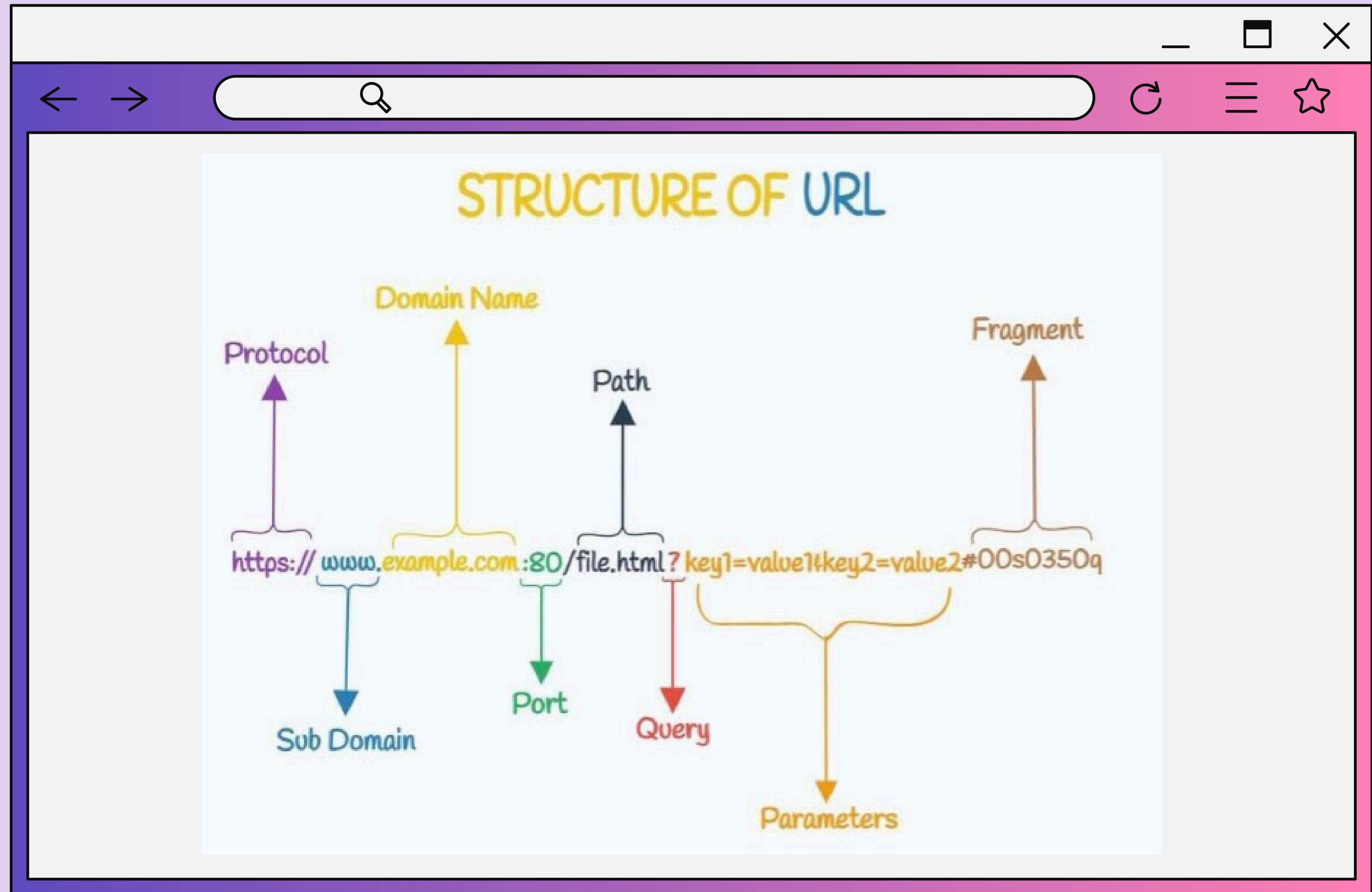
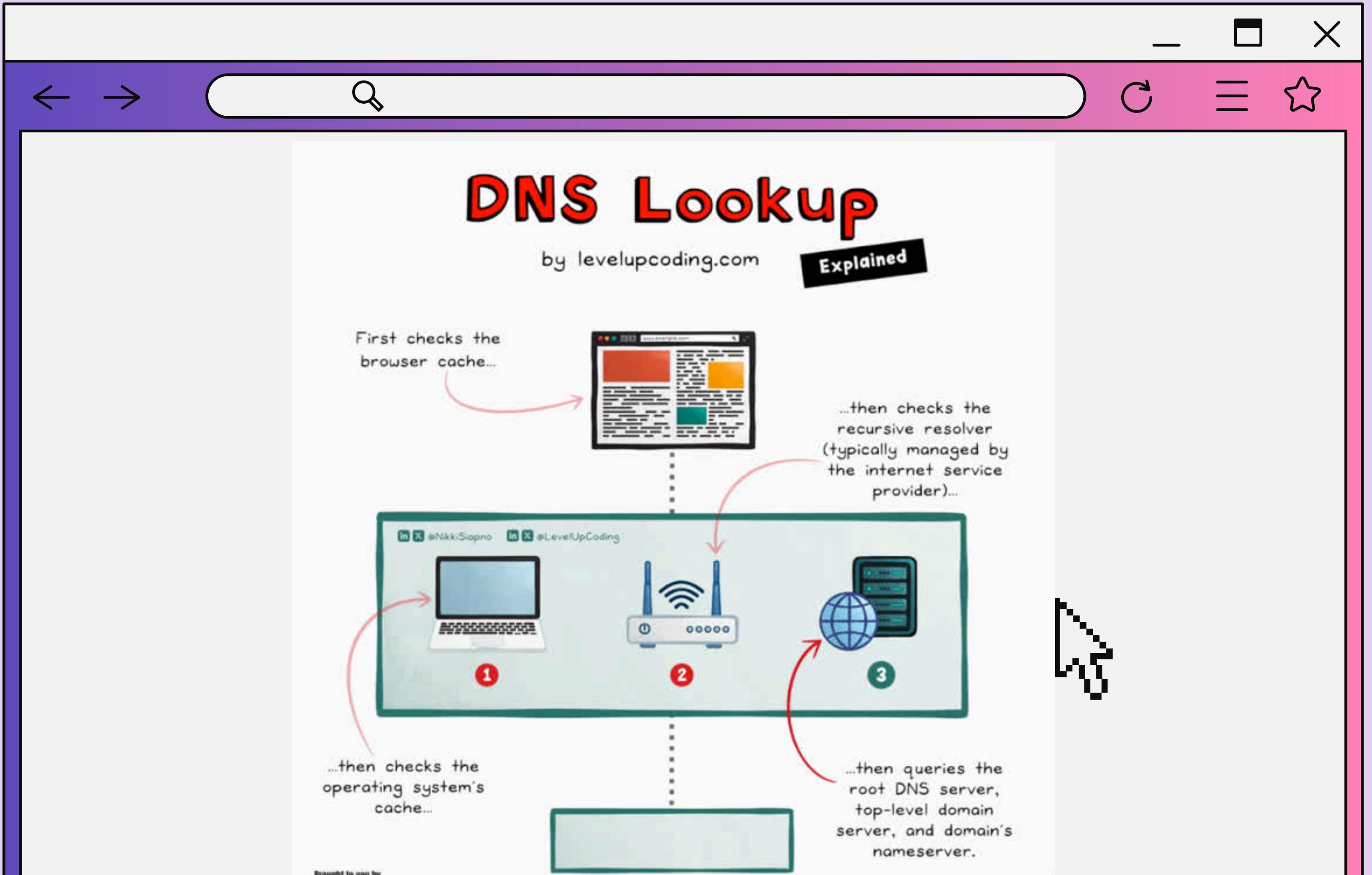


What happens when you type
www.google.com in the
browser ?

www.google.com







TCP Handshake

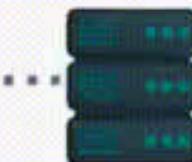
by levelupcoding.co

Explained

The client sends a TCP packet with the SYN flag set and an initial sequence number to the server



1. SYN (Synchronize)



Replies with both the SYN and ACK flags set, it's an initial sequence number, and acknowledges the client's SYN packet



2. SYN-ACK (Synchronize-Acknowledge)



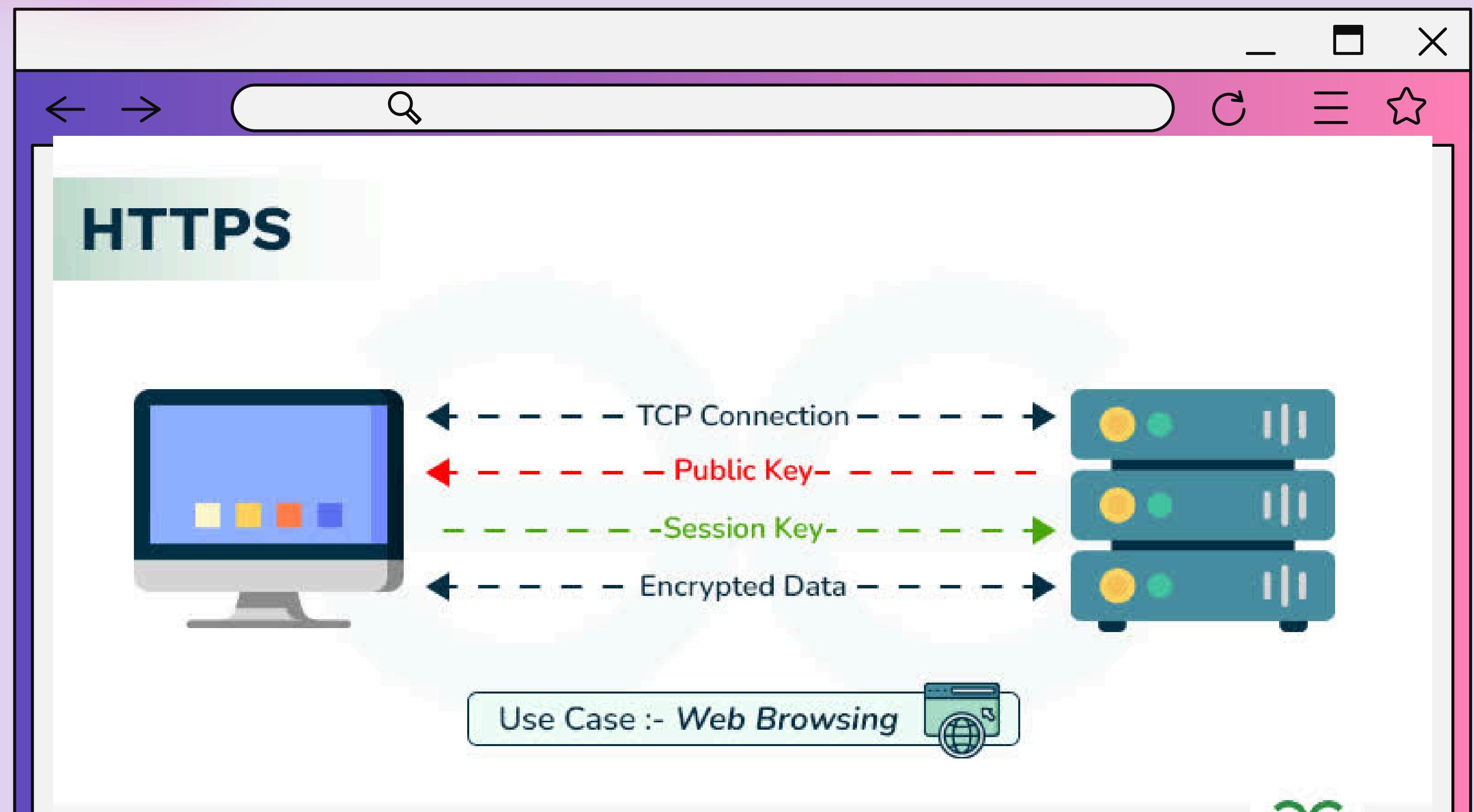
The client sends back an ACK packet to the server, acknowledging the server's SYN-ACK packet

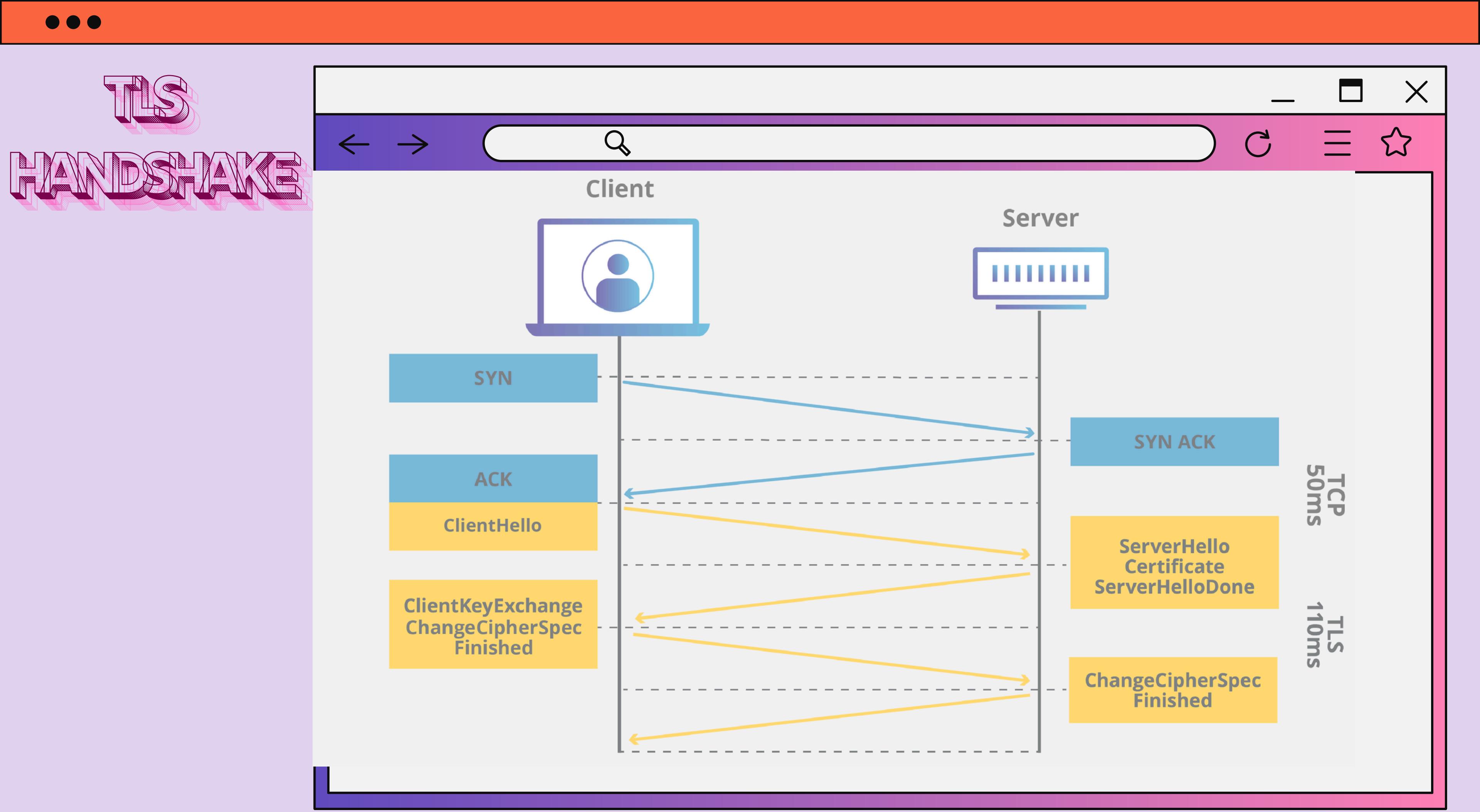


3. ACK (Acknowledge)

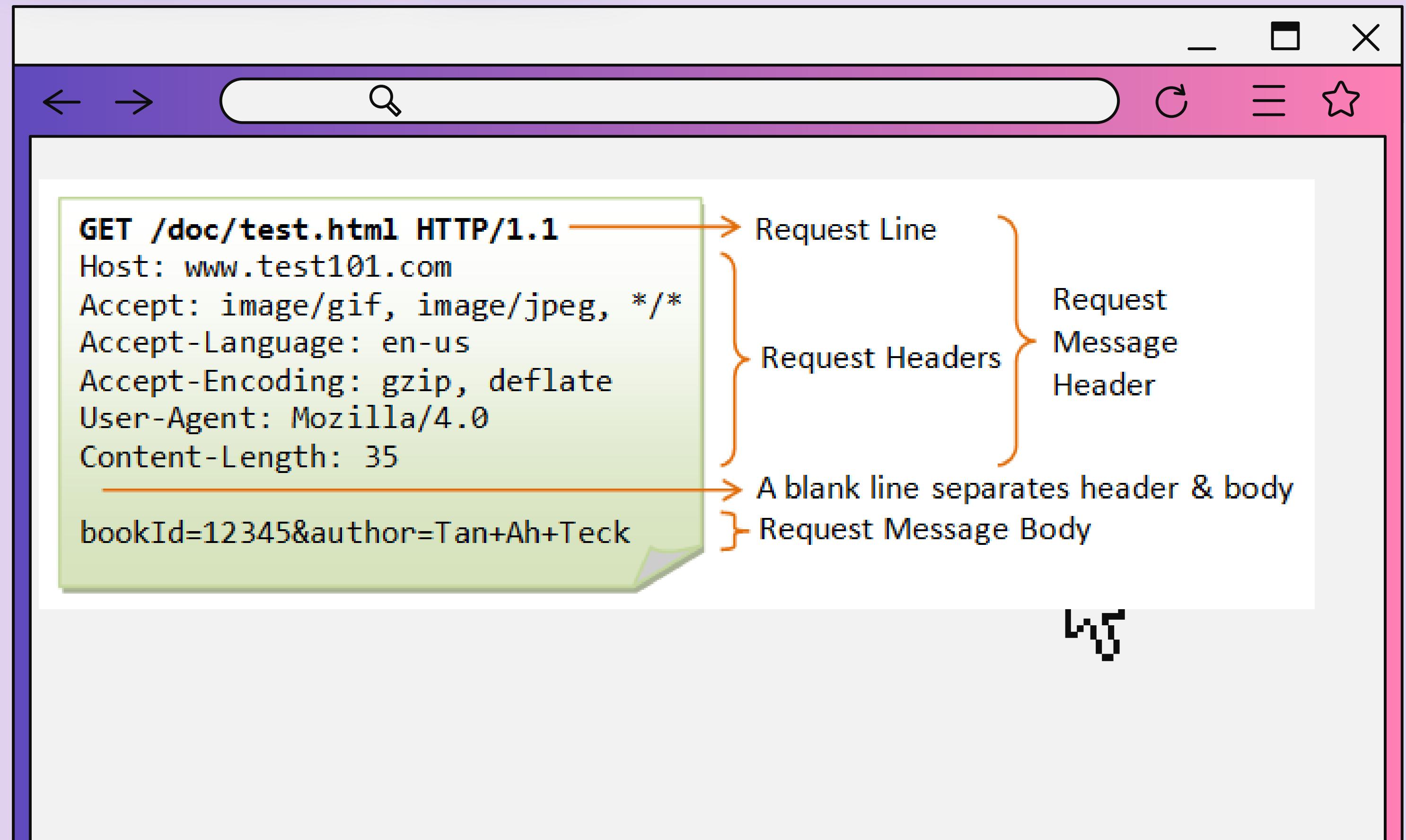


ENCRYPTION

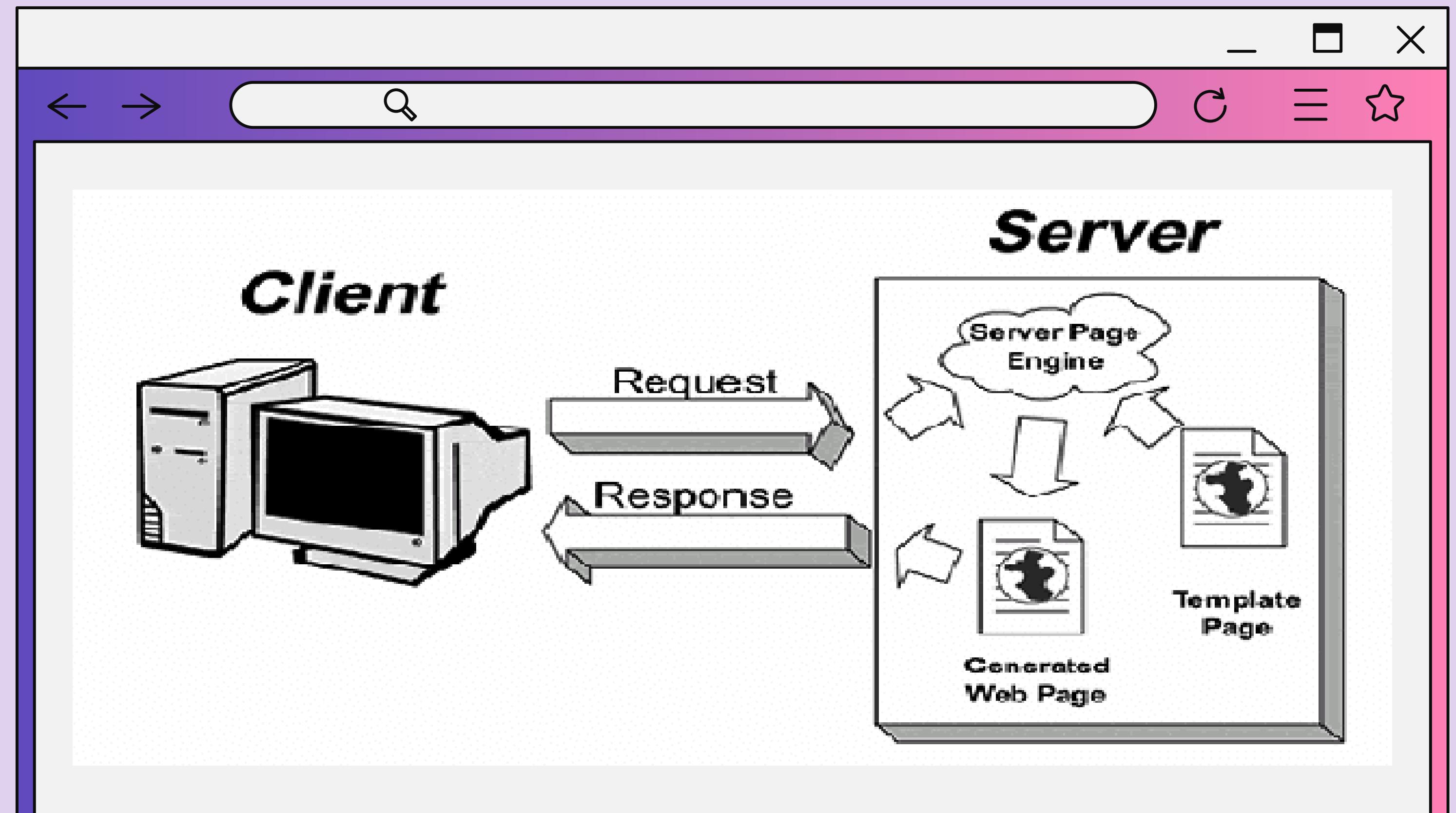




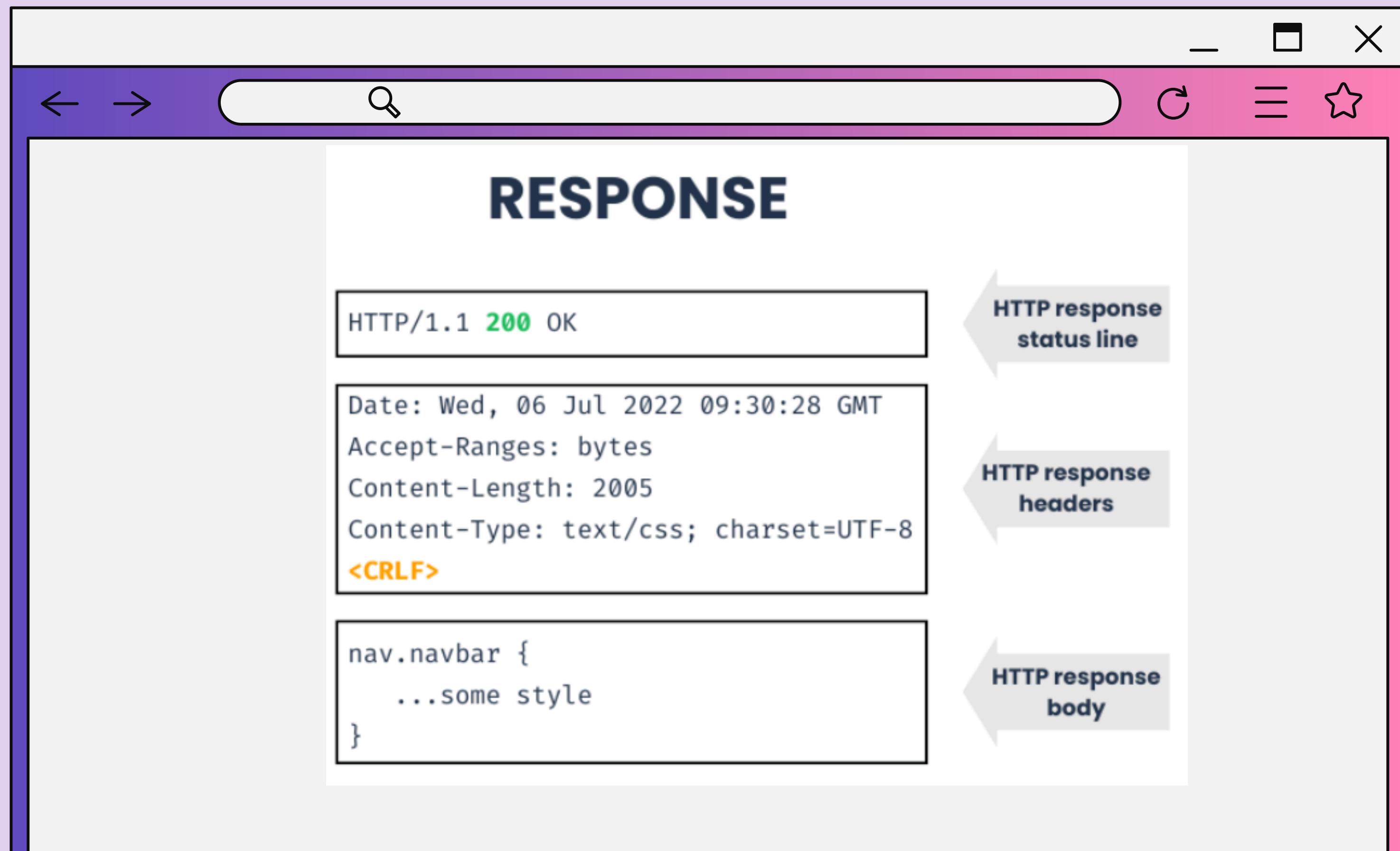
HTTP REQUEST SENT



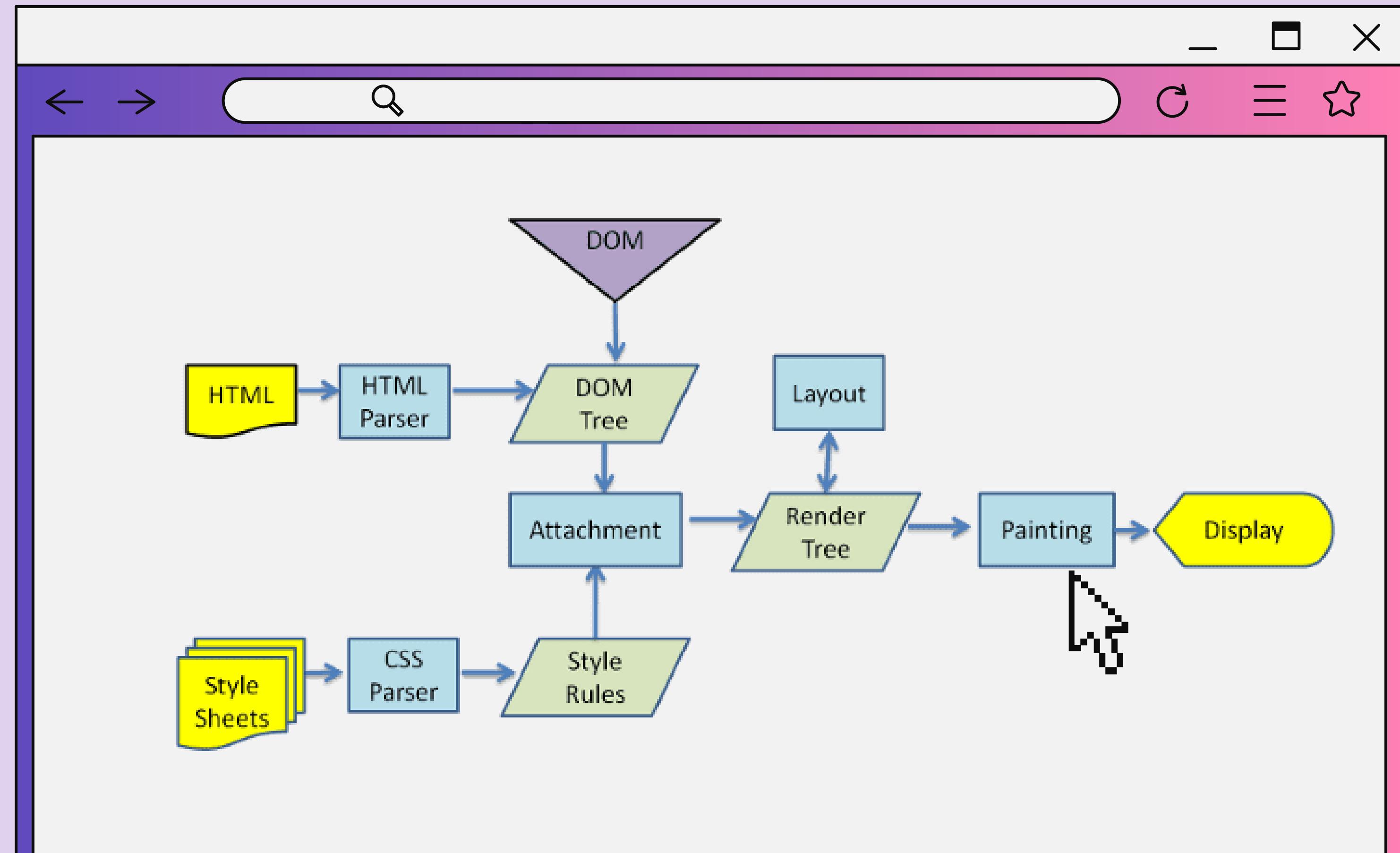
SERVER PROCESS REQUEST



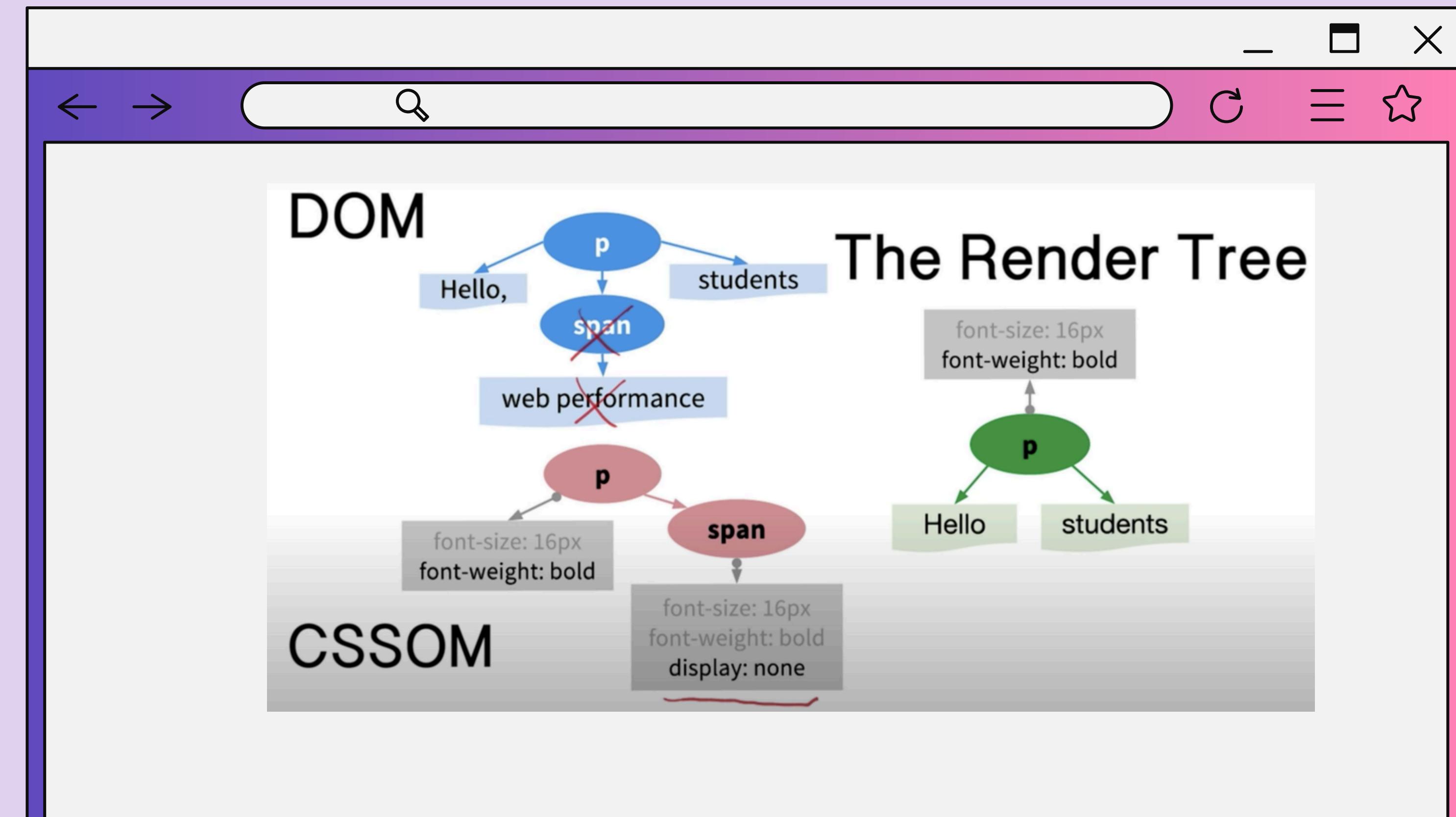
SERVER SENDS HTTP REQUEST



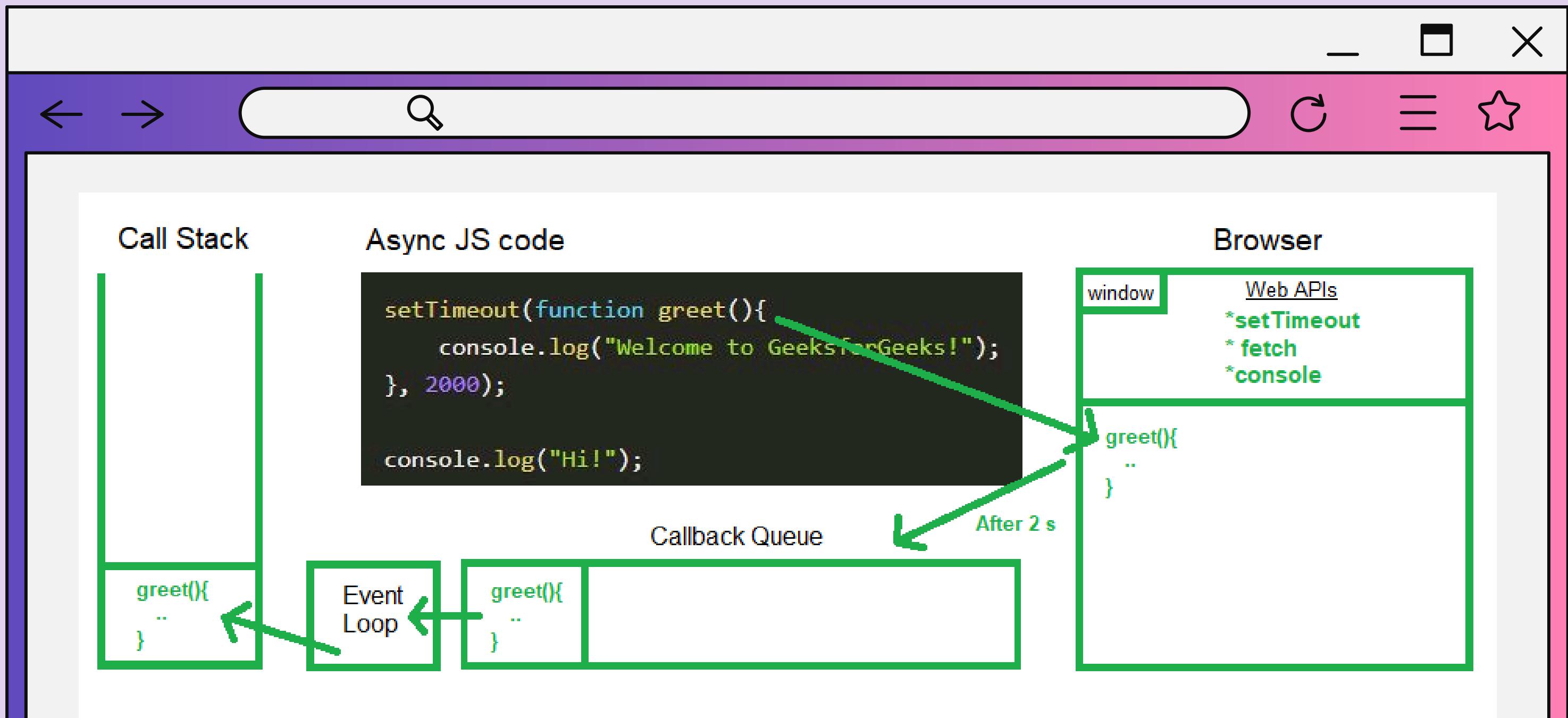
PROCESS STARTS PARSING HTML



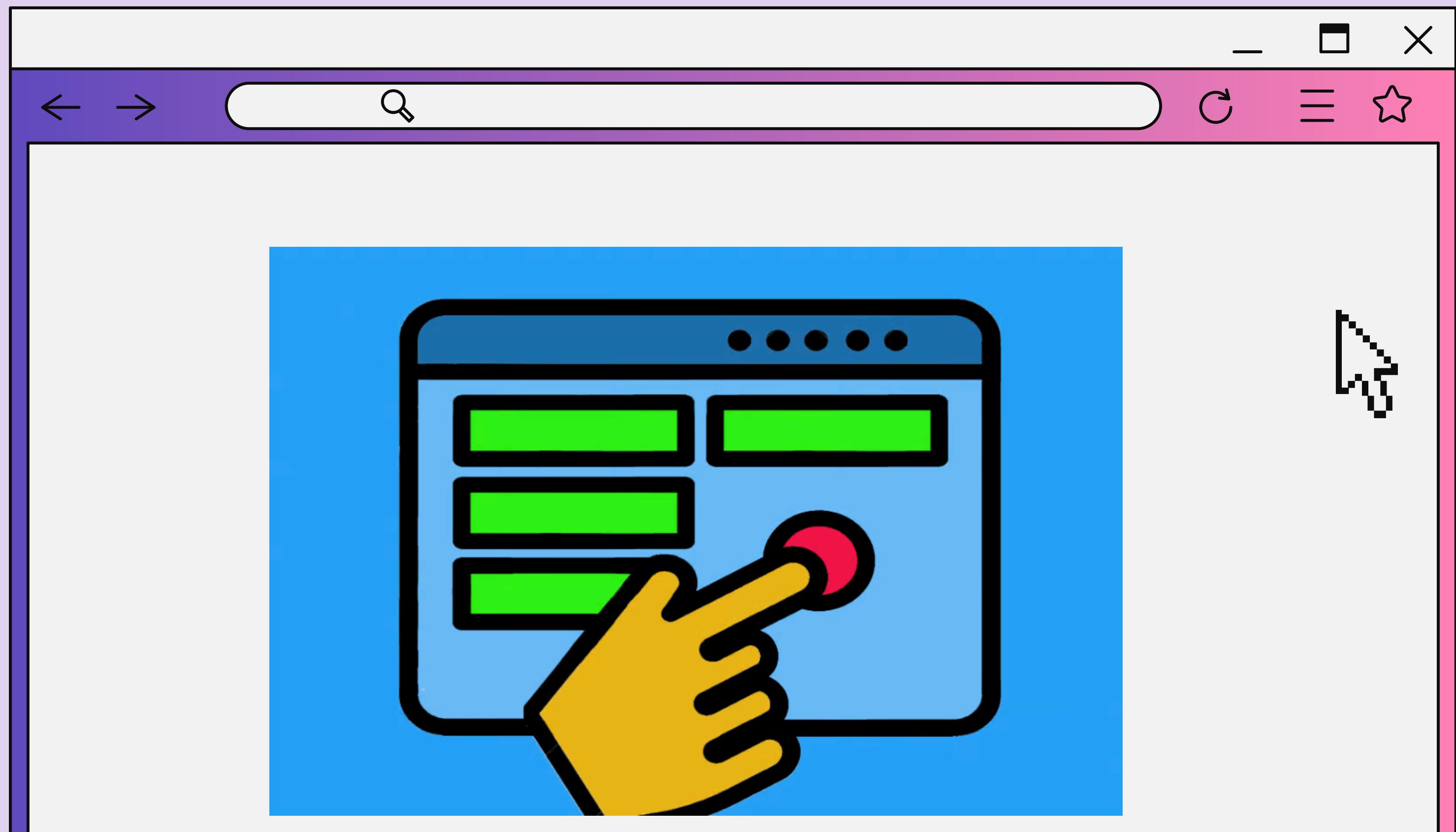
RENDERING THE TREE



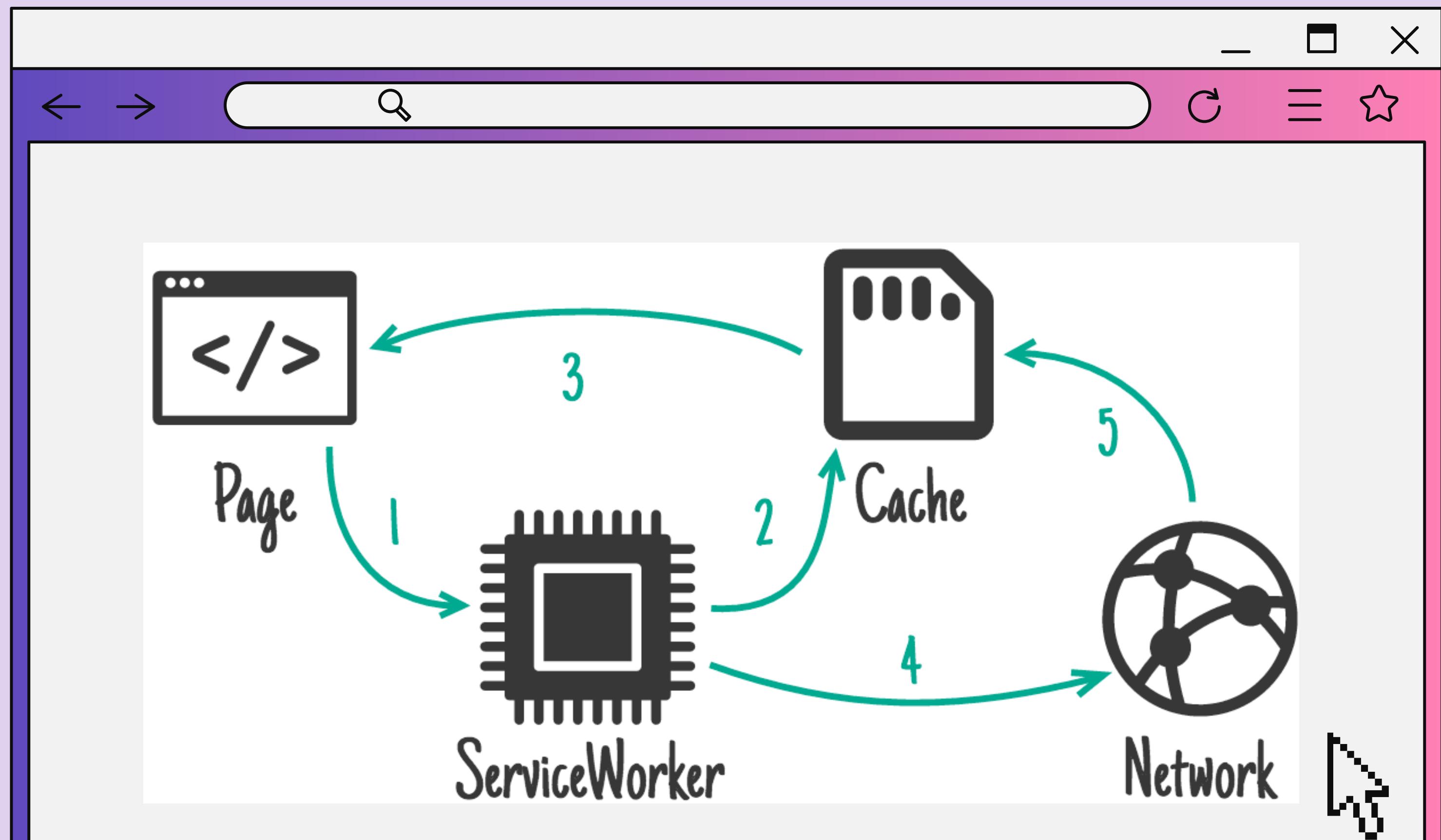
JAVASCRIPT EXECUTES



INTERACTION WITH THE PAGE



BACKGROUND PROCESS RUN



TCP CONNECTION CLOSED

