* What is HTTP?

HTTP stands for the hypertext transfer protocol, which is a set of standards and rules for transferring information between networks both requests and responses from the user and server.

* What is a URL?

The uniform Resources locator, is an address for some internet resources and they are not exclusive to webpages, they are also used with FTP, database access, etc. but they are frequently used for HTTP requests. Each URL is consist of protocol, hostname, port, resources, and query.

* What is DNS?

DNS or Domain Name System is just like a phonebook and translates hostnames in URL to IP addresses between DNS servers.

* What is a query string?

The query string is located at the end of the URL and facilitates users to pass arguments to interact with the website server.

* What are two HTTP verbs and how are they different?

1-get = requests without side effects and do not change anything on the server send through the get method. Arguments in this method are passed along in query string.

2- post = requests with side effect (change data) on server implemented by post method and arguments sent as body of requests.

* What is an HTTP request?
* What is an HTTP response?

Request: when user or a device wants to interact with servers through a URL, send requests HTTP request to the server.

Response: After the server receives the user request and processed it, it sends an HTTP response to user.

* What is an HTTP header? Give a couple examples of request and response headers you have seen.

Headers provide additional information about the request or the response.

Request headers: Host, User-Agent, Accept, Cookie, Cache-Control

Response headers: Content-Type, Last-Modified, Set-Cookie, Cache-Control.

* What are the processes that happen when you type “<http://somesite.com/some/page.html>” into a browser?

browser translates hostname into IP address using DNS, then browser makes a request to that IP address, including headers. Then, server sends a response, then, browser makes a DOM from that HTML, and finds any other resources needed.