- 1. What is HTTP?
- 2. What is a URL?
- 3. What is DNS?
- 4. What is a query string?
- 5. What are two HTTP verbs and how are they different?
- 6. What is an HTTP request?
- 7. What is an HTTP response?
- 8. What is an HTTP header? Give a couple examples of request and response headers you have seen.
- 9. What are the processes that happen when you type "http://somesite.com/some/page.html" into a browser?
- **1. HTTP** is Hypertext Transfer Protocol and its just a set of rules thats says how to communicate between a browser and a web server.
- **2. URL** is Universal Resource Locator, a URL is an address for some internet resource and are frequently associated with HTTP Requests.
- **3. DNS** is Domain Name System and its purpose is to take the **hostname** and turn it into the corresponding IP address.
- **4.** Query String allows you to pass key-value pairs into the URL, in the format ?key1=value1&key2=value2...
- 5. 2 HTTP VERBS are GET Request and POST Request.
 - **GET** is used when making a request without side effects and to get some data from the server (most pages, search forms).
 - **POST** specifies a request where we do have side effects and to send some data to the server (pages that change data on server).
- **6. HTTP Request** is a request from a client to a server which follows the HTTP protocol (eg a request for HTML from news.google.com).
- **7. HTTP Response** is a response from a server to a client which follows the HTTP protocol (eg sending back HTML/CSS/JS/etc).
- **8. HTTP Header** provide additional information about the request or the response. Here are some examples:
 - Request Headers: Host, User-Agent, Accept, Cookie, Cache-Control.
 - Response Headers : Content-Type, Last-Modified, Set-Cookie, Cache-Control.

9. The Process when we type a URL in a browser

- Your browser "resolves" the name into an IP address using DNS
- Your browser makes a request to that IP address, including headers (info about browser, any previous cookies, and other things)
- The server sends a response (typically, HTML, with a status code (200 if it was sucessful)
- The browser makes a DOM from that HTML, and finds any other resources needed (images, CSS, JavaScript, etc)
- The browser makes separate HTTP requests for those resources and receives response from the server for each