Part One: Solidify Terminology

In your own terms, define the following terms:

1. **What is HTTP?**

* Http means hypertext protocol, it is a method for encoding and transporting information between a client (Web Browser like Chrome or IE) and a web server

1. **What is a URL?**

* URL stands for universal resource locators, and it is basically the address of the webpage

1. **What is DNS?**

* DNS stands for Domain Name System, which essentially turns domain names into IP addresses

1. **What is a query string?**

* Query string is extra information that is provided

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

* The two HTTP verbs are **GET** and **POST. GET** is a request without side effects (doesn’t change server data). **POST** is a request with side effects (changes data on server)

1. **What is an HTTP request?**

* A client (browser) sends an HTTP request to the server; then the server returns a response to the client.

1. **What is an HTTP response?**

* Response is made by the server to a client, the aim of the response is to provide the client with the resource it requested, or inform the client that the action requested has been carried out.

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

* Is a field of an HTTP request or response that passes additional context and metadata about the request or response.
* Request headers: Host, User-Agent, Accept, Cookie, Cache-Control
* Response headers: Content-Type, Last-Modified, Set-Cookie, Cache-Control

1. **What are the processes that happen when you type “http://somesite.com/some/page.html” into 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