What is HTTP and HTTPS?

HTTPS stands for Hypertext transfer protocol secure. HTTP is the same without the secure component. This makes the main difference between the two that HTTPS is secured and HTTP is not. There is an added layer of encryption with the security of HTTPS.

What is an URL?

A URL stands for Uniform Resource Locator. It is the mechanism used by the browser to retrieve any published resource on the web. In almost every case the URL is a unique pointer to a website, css document or image.

Is a URI different from a URL, if so how?

A URI and URL are two different things but they are related. Hey URI is a uniform resource identifier. The URL is the access point to get to the URI. A URI is usually a page, or a book or a document.

What is a request response cycle?

This cycle is how a user access a webpage. There are 6 steps to this process.

1. The user types in the URL and hits ENTER
2. The browser makes a request for that URL
3. The request is then routed to a specific controller and action
4. The action receives the request and passes it to the View
5. The view renders the page as HTML
6. The Controller sends the HTML back to the browser where it loads and is seen

One of the tools I found to test APIs was a software called POTSTMAN. It is compatible with Mac Windows and Linux and even has a Google chrome extension. It can be used to test HTML, JSON, XML and others along with the ability to test your code from the web to the API. Overall it looks like a tool that is very well organized and easy to use. Although I admit I do not have the skills to test it out fully yet. I did find a [youtube](https://www.youtube.com/watch?v=t5n07Ybz7yI) video that was a great resource to walk someone through the beginner aspects of running GET and POSTS.

Resource:

<https://developer.mozilla.org/en-US/docs/Learn/Common_questions/What_is_a_URL>

<https://danielmiessler.com/study/difference-between-uri-url/#:~:text=The%20terms%20%E2%80%9CURI%E2%80%9D%20and%20%E2%80%9C,as%20HTTPs%20%2C%20FTP%20%2C%20etc>.

<https://www.codecademy.com/articles/request-response-cycle-static#:~:text=The%20request%2Fresponse%20cycle%20traces,things%20aren't%20working>).

<https://www.youtube.com/watch?v=t5n07Ybz7yI>