**Module #2 – So You Wanna Be a Developer**

**Assignment #2: My Future Job…I Think?**

### Overview:

This assignment is a quick research task to help you understand the web development landscape.

**Instructions:**

1. Read through the ["So You Wanna Be A Web Developer..."](https://the-coding-bootcamp.gitbooks.io/pre-work-book/content/chapter2.html) chapter of Pre-Work.
2. Then, visit a job site like [Indeed](http://www.indeed.com/) or [Dice](http://www.dice.com/).
3. Search for any of the following job positions:
   * Web Developer
   * Frontend Web Developer
   * Backend Developer
   * Javascript Developer
   * Node Developer
4. Read the job postings for at least 10 of the listings. As you are reading, take note of at least one technology, tool, or term, with which you are unfamiliar, from each listing (e.g., *Angular, API*).
5. Then, search online for a definition or description of that technology or term. Try to understand what role it plays in the context of how web applications were described in that chapter.
6. Open a Word or Text file and paste in your description for each of the technologies you researched. You should have a total of 10 descriptions listed.

**Vocabulary:**

***PHP*** *-* PHP is a [script](http://searchenterpriselinux.techtarget.com/definition/script) language and interpreter that is freely available and used primarily on [Linux](http://searchenterpriselinux.techtarget.com/definition/Linux) Web servers. PHP, originally derived from *Personal Home Page* Tools, now stands for *PHP: Hypertext Preprocessor*, which the PHP FAQ describes as a "recursive acronym."

PHP is an alternative to Microsoft's [Active Server Page](http://searchwindowsserver.techtarget.com/definition/Active-Server-Page) (ASP) technology. As with ASP, the PHP script is embedded within a Web page along with its [HTML](http://searchsoa.techtarget.com/definition/HTML). Before the page is sent to a user that has requested it, the Web server calls PHP to interpret and perform the operations called for in the PHP script.

An HTML page that includes a PHP script is typically given a file name suffix of ".php" ".php3," or ".phtml". Like ASP, PHP can be thought of as "dynamic HTML pages," since content will vary based on the results of interpreting the script.

***Ajax*** *-* Ajax is a client-side script that communicates to and from a server/database without the need for a postback or a complete page refresh. The best definition I've read for Ajax is “the method of exchanging data with a server, and updating parts of a web page – without reloading the entire page.”

***JSON*** *-* JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999.

***UX/UI***– User Experience/User Interface. Unlike UX designers who are concerned with the overall feel of the product, user interface designers are particular about how the product is laid out. They are in charge of designing each screen or page with which a user interacts and ensuring that the UI visually communicates the path that a UX designer has laid out.

***Bootstrap*** *-* Bootstrap is a [free and open-source](https://en.wikipedia.org/wiki/Free_and_open-source_software) front-end [web framework](https://en.wikipedia.org/wiki/Web_framework) for designing [websites](https://en.wikipedia.org/wiki/Website) and [web applications](https://en.wikipedia.org/wiki/Web_application). It contains [HTML](https://en.wikipedia.org/wiki/HTML)- and [CSS](https://en.wikipedia.org/wiki/CSS)-based design templates for [typography](https://en.wikipedia.org/wiki/Typography), forms, buttons, navigation and other interface components, as well as optional [JavaScript](https://en.wikipedia.org/wiki/JavaScript) extensions. Unlike many web frameworks, it concerns itself with [front-end development](https://en.wikipedia.org/wiki/Front-end_web_development) only.

***Angular.js*** *-* AngularJS (commonly referred to as "Angular.js" or "AngularJS 1.X") is a JavaScript-based [open-source](https://en.wikipedia.org/wiki/Open-source_software) front-end [web application framework](https://en.wikipedia.org/wiki/Web_application_framework) mainly maintained by [Google](https://en.wikipedia.org/wiki/Google) and by a community of individuals and corporations to address many of the challenges encountered in developing [single-page applications](https://en.wikipedia.org/wiki/Single-page_application). The JavaScript components complement [Apache Cordova](https://en.wikipedia.org/wiki/Apache_Cordova), the framework used for developing cross-platform mobile apps. It aims to simplify both the development and the [testing](https://en.wikipedia.org/wiki/Software_testing) of such applications by providing a framework for client-side [model–view–controller](https://en.wikipedia.org/wiki/Model%E2%80%93view%E2%80%93controller) (MVC) and [model–view–viewmodel](https://en.wikipedia.org/wiki/Model_View_ViewModel) (MVVM) architectures, along with components commonly used in [rich Internet applications](https://en.wikipedia.org/wiki/Rich_Internet_application). In 2014, the original AngularJS team began working on [Angular (Application Platform)](https://en.wikipedia.org/wiki/Angular_%28Application_Platform%29).

The AngularJS framework works by first reading the [HTML](https://en.wikipedia.org/wiki/HTML) page, which has embedded into it additional custom [tag attributes](https://en.wikipedia.org/wiki/HTML_attribute). Angular interprets those attributes as [directives](https://en.wikipedia.org/wiki/Directive_%28programming%29) to bind input or output parts of the page to a model that is represented by standard [JavaScript](https://en.wikipedia.org/wiki/JavaScript) [variables](https://en.wikipedia.org/wiki/Variable_%28computer_science%29). The values of those JavaScript variables can be manually set within the code, or retrieved from static or dynamic [JSON](https://en.wikipedia.org/wiki/JSON) resources.

***CMS*** *-* A content management system (CMS) is a software application or set of related programs that are used to create and manage digital content. CMSes are typically used for enterprise content management (ECM) and web content management (WCM).

***SEM*** *-* Search engine marketing (SEM) is a form of Internet marketing that involves the promotion of websites by increasing their visibility in search engine results pages (SERPs) primarily through paid advertising.

***Eloqua*** *-* Eloqua is a marketing automation platform (MAP), now owned by Oracle. This software is used by marketers, primarily B2B marketers, to help automate the lead generation process.

***W3C Standards*** *-* The World Wide Web Consortium (W3C) is the main international [standards organization](https://en.wikipedia.org/wiki/Standards_organization) for the [World Wide Web](https://en.wikipedia.org/wiki/World_Wide_Web) (abbreviated WWW or W3).

Founded and currently led by [Tim Berners-Lee](https://en.wikipedia.org/wiki/Tim_Berners-Lee),[[3]](https://en.wikipedia.org/wiki/World_Wide_Web_Consortium#cite_note-consortium-3) the [consortium](https://en.wikipedia.org/wiki/Consortium) is made up of member organizations which maintain full-time staff for the purpose of working together in the development of standards for the [World Wide Web](https://en.wikipedia.org/wiki/World_Wide_Web). As of 1 April 2017, the World Wide Web Consortium (W3C) has 461 members.[[2]](https://en.wikipedia.org/wiki/World_Wide_Web_Consortium#cite_note-MembersList-2)

The W3C also engages in education and outreach, develops software and serves as an open [forum](https://en.wikipedia.org/wiki/Internet_forum) for discussion about the Web.