**What problems do JQuery and AJAX solve? How do they solve those problems?**

JQuery is a JavaScript library that simplifies a number of tasks. Among these tasks are HTML DOM traversal, DOM manipulation and event handling. The concept is that JQuery methods use less code to do what takes many more lines of code to accomplish in standard JavaScript. The JQuery framework does not add any extra functionality found in native JavaScript. It does make accessing and implementing certain functionality much more efficient from a coding perspective. Sort of like a bundle of shorthand for JS code.

AJAX is an acronym for “Asynchronous JavaScript and XML”. It is a client-side JavaScript implementation used to update and retrieve data from a server asynchronously. The name is slightly misleading in that XML is just one of several types of protocols that can be used to move data. Others include JSON and plain text. AJAX relies on the XMLHttpRequest Object which is built into modern browsers to be able to interact with remote web servers. These interactions for moving data are done asynchronously. AJAX relies on a event handler on the client side to react when conditions are met that indicate a change has occurred remotely. This allows a web page to be modified without needing to be completely reloaded.

**In JQuery, what does it mean to "traverse the DOM"?**

HTML documents are implemented using a Document Object Model or DOM. The DOM defines the structure of how an HTML page is represented. Traversing the DOM references how a developer accesses elements that make up the HTML in memory.  It is used to navigate and interact with an HTML page.

**What is your favorite thing you learned this week?**