Questions: *jQuery and AJAX*

1. What is the DOM?

DOM stands for Document Object Model, and is a programming interface for HTML. It serves as the bridge that connects HTML to JavaScript.

1. What is jQuery?

[jQuery](https://jquery.com/) is a JavaScript library that makes the operations like the ones we discussed above easier, while augmenting the exisiting set of DOM functionality given to us by the browser to make advanced interactivity easier.

1. Modify the text of the 3rd link on the page to say “CMSC389K”.

var links = document.getElementsByTagName("a");

links[2].textContent = "CMSC389K"

1. From the previous question, what is the type of the variable links? What is that?

**It is an HTMLCollection, which is a list of element nodes.**

1. Create the function nummy that uses map to convert an array of numbers into their strings. Assume you have an object numStrings that maps all integers to their associated strings.

numStrings[1] = ‘one’

numStrings[41] = ‘forty-one’

nummy([1, 2, 3, 10]) = [‘one’, ‘two’, ‘three’, ‘ten’]

function nummy(arr) {

arr.map(function(i) {

return numStrings[i];

});

}

1. Use jQuery to make it so when the button with id btn is clicked, you use alert() to display the value currently in the input field with id inp. Set the value in the input field to be the empty string as well.

$(“#btn”).on(“click”, function () {

var txt = document.getElementById('inp').value;

document.getElementById("inp").value = "";

alert(txt);

});

1. Append a div (with your choice of filling) inside <div id=”container”> when the button with class btn is hit. Empty the div when the button with class empty is hit.

$(“#btn”).on(“click”, function () {

$(“#container”).append(“<div>This is a div.</div>”);

});

$(“#empty”).on(“click”, function () {

$(“#container”).empty();

});

1. Write a function that returns the description of the input course code (assume valid input). You will have to use umd.io

function fun(course){

$.get(“<http://api.umd.io/v0/courses/>” + course, function(data) {  
 return data.description;

});

}

1. Use setInterval() to get the text in the input field with id inp and set the inner text div with id targ to that text every 3 seconds.

setInterval(function(){

var text = document.getElementById(“inp”).value;

document.getElementById("targ").innerHTML = text;

}, 3000);

Objectives Covered for **Week 3**

* JavaScript
  + Selecting and Modifying Elements
* jQuery
  + Selecting and Modifying Elements
  + Event Handlers
* AJAX
  + Get requests
* How to use an API