**Module 5 – Third Party APIs**

**Tools for this module:**

* [Bootstrap (Links to an external site.)](https://getbootstrap.com/) is an open source responsive front-end component library for developing with HTML, CSS, and JS. It uses a responsive grid system to allow for quick layouts in both development and production.
* [jQuery (Links to an external site.)](https://jquery.com/) is the most popular JavaScript library in the world. It simplifies DOM traversal and manipulation, event handling, and animation with an easy-to-use API.
* [jQuery UI (Links to an external site.)](https://jqueryui.com/) is a set of user interface interactions, effects, widgets, and themes built on top of the jQuery library, providing features such as drag and drop functionality and a date picker.
* [jQuery UI Touch Punch (Links to an external site.)](http://touchpunch.furf.com/) is a small library that enables the use of touch events on sites using the jQuery UI library. This allows developers to use jQuery UI to create interfaces for mobile and touch devices.
* [Moment.js (Links to an external site.)](https://momentjs.com/) is an open source JavaScript library that removes the need to use the native JavaScript Date object directly, making the Date object easier to parse, validate, and display.
* [Google Fonts (Links to an external site.)](https://fonts.google.com/) is a library of over 900 free licensed fonts, with an API for conveniently adding the fonts to your web application.
* [Open Iconic (Links to an external site.)](https://useiconic.com/open) is an open source icon font set that can help add meaning to elements of your website.

**Git Commands**

Setting up a GH repo when you have an existing project folder already on your desktop.

1. Navigate to where the project folder is.
2. Type “git init” – this sets up the local folder as a Git repository.
3. Create the GH repo on the GH site, and copy the clone URL.
4. Type “git remote add <<paste your copied URL>>”
5. Type “git remote -v” – You will still need to sync with the remote GH repo if you have created the repo with files (README).
6. Type “git pull origin master” – this pulls any un-synced info from online to the local folder (README).

**Definitions**

* Content Delivery Network (CDN) – A CDN hosts files as a public service to make loading these resources faster and easier.
* Modal – sometimes called a pop-up is an overlay that requires user interaction before returning to the main application.

**jQuery – A 3rd party JS library**

Access jQuery documentation to find out information on specific functions:

<https://api.jquery.com/>

* append() – A more robust version of appendChild()
* addClass() – Updates an element’s class attribute with new values.
* text() – Changes/retrieves the element’s text content.
* click() – Bind an event handler to a “click” event. (can’t be used for event delegation)
* on() – Attach an event handler for one or more events to the selected elements. (used for event delegation)
  + $(“.list-group”).on(“click”, “p” function() {
  + console.log(“<p> was clicked”);
  + });
  + //Attaches an event handler to the .list-group class of elements. When a “click” event occurs on a “p” element in the .list-group or any of its children, call the function(), which logs to the console.
* trim() – removes any white space before or after. Often used when retrieving text or a value from a page element, this will ensure there are no additional whitespace and you will get just the value.
* this – Native to JS, this can be used by an object to refer to itself, i.e. instead of typing “console.log(event.target)” you can type “console.log(this)”
* Note on creating vs. querying elements – when using the $ function, leaving out any <> will query the document for the type of element in $, i.e. $(“textarea”) finds all existing <textarea> elements. $(“<textarea>”) tells jQuery to create a new <textarea> element.
* $(this).replaceWith(variable) – replaces $(this) with the value of variable.
* element.trigger(“focus”) – puts focus on element, i.e. highlight element if it is text, etc.
* blur- An event like “click”, blur will be triggered when the element loses focus, i.e. when the user interacts with anything other than the focused element.
* attr() – If attr includes a single argument, it returns the value of the named attribute. With two arguments, it sets an attribute, i.e. attr(“type”, “text”) will set the type attribute = text.

**Bootstrap – 3rd party CSS stylesheets**

Access Bootstrap documentation to find out information on specific stylings:

<https://getbootstrap.com/docs/4.5/getting-started/introduction/>