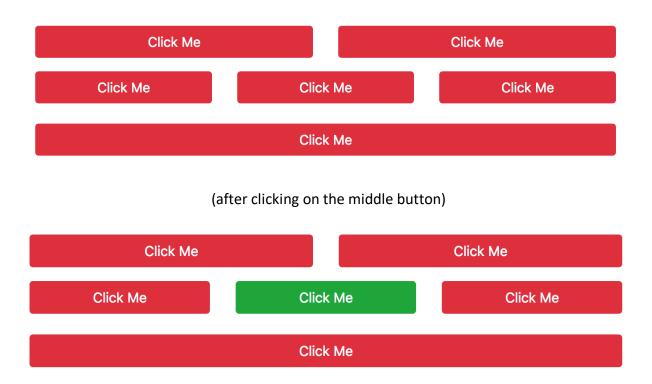
Advanced Web Development and Web Scraping Fall 2018

Assignment #4 – Web Frameworks

- The jQuery, Bootstrap4, and AngularJS tutorials on w3schools are great references for learning more about these frameworks. However for this assignment the following tutorials are the most relevant:
 - a. jQuery
 - i. https://www.w3schools.com/jquery/jquery selectors.asp
 - ii. https://www.w3schools.com/jquery/jquery css.asp
 - iii. https://www.w3schools.com/jquery/jquery dom set.asp (top only)
 - iv. https://www.w3schools.com/jquery/html attr.asp
 - b. Bootstrap4
 - i. https://www.w3schools.com/bootstrap4/bootstrapgrid basic.asp
 - ii. https://www.w3schools.com/bootstrap4/bootstrap_buttons.asp
 - c. AngularJS
 - i. https://www.w3schools.com/angular/angular expressions.asp
 - ii. https://www.w3schools.com/angular/angular directives.asp
 - iii. https://www.w3schools.com/angular/angular databinding.asp
 - iv. https://www.w3schools.com/angular/angular controllers.asp
- 2. Add **jQuery** statements to the \$(document).ready() function in the links.html page to do the following:
 - a. Change the color of the h1 header to red (or another color)
 - b. When the mouse enters (mouseenter event) a link element (an <a> tag), the web address is displayed in the div with id = "url" and the display of this div is set to "block"; when the mouse moves away from a link (mouseout event), the div with "url" is hidden. Note that the attr method ((https://www.w3schools.com/jquery/html_attr.asp) will need to be used to change the href attribute
- 3. Use **Bootstrap** and the appropriate *col-sm-** attributes to create a page with 3 rows that consist of 2, 3, and 1 columns (see screenshot on next page). You may use the *buttons.html* file as a template. Each column contains a button with a "btn btn-danger" style. Using **jQuery**, clicking on the button will change its style to "btn btn-success", and clicking the button again will change it back to "btn btn-danger". In order to do this, the following jQuery functions will be useful:

- a. hasClass("class") returns *true* if the element has the specified class; otherwise returns false
- b. addClass("class") adds the specified class to the element
- c. removeClass("class") removes the specified class from the element



4. Use **AngularJS** display a table with your current course schedule, in the format below. In order to do this, use a controller to create an array of objects, where each object contains the course *name* (e.g., CSC 360) and *time* (e.g., MWF, 2:00 – 2:50). Your HTML code should include an appropriate *ng-repeat* directive that will create each row of the table.

Course schedule for Garrett Dancik

Course	Time
CSC-315-01	MWF, 11:00-11:50
CSC-450-02	MWF, 1:00-1:50
CSC-360-05	MWF, 2:00-2:50
CSC-450-01	MW, 4:00-5:15