**COMM644  
Final Project**

For the final project in this course, you will be tasked with demonstrating mastery in the skills that you’ve learned throughout this certificate program (FEWD1 and FEWD2). Your job will be to construct a full-functioning and usable web development framework (think Bootstrap, Foundation, etc.). The framework that your team will build should demonstrate all of the skills that you’ve acquired throughout this program including HTML5, CSS3, JavaScript, jQuery, plugin development, WordPress, Responsive Web Design, and more. The completed team-based project will be a culmination of everything you’ve learned and the quality of work in this project should reflect that. In order to receive the full points for this project, every member of your team should make sure that their completed project touches on the points outlined in the rubrics from the following five parts.

**General Styling (Total: 40 points)**

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| **Points** | **Description** |
| **10** | Your framework includes a HTML “reset” library that standardizes all HTML tags across the browsers. Build your own, DO NOT copy an existing library like normalize.css. |
| **10** | Your framework includes classes that define a grid system. The grid should contain 4 major breakpoints including one for mobile portrait, mobile landscape, tablet portrait, and everything else. Build your own, DO NOT copy an existing library like Skeleton. |
| **4** | Your framework defines styling for type including headings, body copy/paragraphs, inline text elements (bold, italic, cite, code, variables, etc.) alignments, abbreviations, addresses, block quotes, and lists. Additionally, add transformation styling for uppercase, lowercase, and capitalization. |
| **4** | Your framework defines styling for tables. The table should contain an option for striped rows and a bordered table. The table should also contain an option for responsive tables. So, if a user chooses to include a table and it’s viewed in a mobile device, the table should adapt gracefully. |
| **6** | Your framework defines styling for all form elements including text boxes, drop down lists, text areas, radio buttons, check boxes, fieldsets and labels, etc. Your form fields should have unique styling applied to them so that they do not look like the default form fields. This includes width, height, padding, shadows, and corner radius applied to elements that will accept these properties. |
| **2** | All buttons should be styled so that they do not look like the default buttons. You will need to redefine all buttons including <button>, input type button, submit, and reset. Additionally, provide 4 sizing options for buttons including extra small, small, normal, and large. Your buttons should have styling applied to all three states including normal, hover, and active. |
| **1** | Your framework should provide a class that the user can apply to images so that they are responsive if the user chooses to make the image responsive. |
| **1** | Your framework should define at least 2 helper classes. Perhaps a “clearfix” class and a “quick floats” class that allows the user to quickly float an element left or right. Or, use clearfix to clear elements if the user chooses. |
| **1** | Your framework defines a “no-print” class that when used, prevents the element that the class is attached to from being sent to the printer. |
| **1** | Incorporate font awesome or glyphicons into your framework so that the user can add a class and instantly have an icon appear. |

**Components (CSS ONLY) (Total: 60 points)**

Create 4 CSS components. I don’t care what 4 components you create but they have to help sell your framework. Navigation bars/menus, alerts, Bootstrap-like Jumbotrons, custom drop down components, masked images, shuffling layouts, etc. are all good examples of components that you might consider building yourself. Be creative and innovative here!

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| **Points** | **Description** |
| **15** | CSS component 1 |
| **15** | CSS component 2 |
| **15** | CSS component 3 |
| **15** | CSS component 4 |

**JavaScript Plugins (JavaScript and CSS) (Total: 60 points)**

Create 4 JavaScript plugins. I don’t care what 4 plugins you create but they have to help sell your framework. Image carousels, image light boxes, modal windows, tab menus, tooltips, back to tops, stickie/affixes, etc. are all good examples of standard plugins that you might consider building yourself. Be creative and innovative here!

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| **Points** | **Description** |
| **15** | JavaScript/jQuery plugin 1 |
| **15** | JavaScript/jQuery plugin 2 |
| **15** | JavaScript/jQuery plugin 3 |
| **15** | JavaScript/jQuery plugin 4 |

**Support Website (Total: 40 points)**

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| **Points** | **Description** |
| **40** | Build a website using WordPress that sells and supports your framework. The website should have a minimum of 4 pages including a main page that highlights the main features of your framework and why a user would want to use your framework over something more robust like Bootstrap, Foundation, or Gumby. You should also have a Getting Started page that outlines examples for using your framework, outlines the general styling that will be applied to elements in a web page when your framework is used, and a demonstration of the grid framework and responsive breakpoints that your framework takes advantage of. The third and fourth pages should be the CSS Components and JavaScript Plugins that your framework exposes. I would like the design of the website to utilize a flat theme. The navigation menu should be horizontal and cover the top area (either left or right) of the site. Also make sure to design a custom logo for your framework and display it proudly throughout your website. |

**A Successful Build (Total: 400 points)**

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| **Points** | **Description** |
| **400** | Another team (each member in that team) in the class will have exactly 1 week (1 Tuesday and 1 Thursday) to successfully build a website using your framework. They cannot ask you for help on how to use your framework. Your documentation and website should be organized so well that the team should be able to build a website without inquiring for help from you.  The website will be a 5-page website that features the following web pages: Home, About Us, Products, Support, and Contact Us. I will provide the content for this website as the final week draws near. |