Code Documentation

1. What is the application?

Our group used Bootstrap and jQuery libraries. Bootstrap is a free open source front-end library for designing websites and web applications. And JQuery is another free open source cross-platform JavaScript library designed to simplify the client-side scripting of HTML.

1. Why is the application necessary (or useful)?

Bootstrap is useful for the creation of forms, buttons, navigation, and as optional JavaScript extensions. Besides this, bootstrap can be used for desktop and mobile development; there are built-in capabilities that automatically resize the application making it a smooth process to go from a website to a mobile app. On the other hand, jQuery is used to make HTML document manipulation, event handling, and make it easy to use API that works across a multitude of browsers. In our project, we used Bootstrap, for navigation, for image cards to view the dorms pictures, for forms, and for buttons. And we used jQuery in to make a function that counts the number of words entered in text area field on the contact us page.

1. Who are the application users?

Bootstrap is great for users who do not want to start building their website from scratch. Bootstrap user can have access to built-in layout, the shaping of text and images, and buttons. Additionally, users who have basic knowledge and understanding of jQuery will benefit more since bootstrap requires jQuery to function.

1. How does the application work?

To get started with Bootstrap, one can start by downloading it. Just use the link here: <https://getbootstrap.com/docs/3.3/getting-started/>

Users can also install and manage Bootstrap using Bower: $ bower install bootstrap Once downloaded, unzip the compressed folder to see the structure of bootstrap. Bootstrap uses Grunt for its build system, with convenient methods for working with the framework. It is how bootstrap compiles CSS and JavaScript to run, tests, and more. If necessary, install Grunt use (<https://gruntjs.com/getting-started)>. Lastly, Users can start with the basic HTML template, or modify the templates to suit the users’ needs.

To get started with jQuery, the user can download development or production version from jQuery.com. The jQuery library is a single JavaScript file and users can reference it with the HTML <head> <script>tag </head>. If users do not want to download and host jQuery, they can include it from a Content Delivery Network like Google and Microsoft host jQuery. Lastly, the user has to downloaded file in the same directory as the pages where they wish to use it.