

## **Web Development: Utilizing Quarto To Create A Website**

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### **Project Goal:**

The goal of our project is to teach the class how to utilize Quarto to create a website. Throughout this project, we will work together as a team to learn the features that Quarto provides for web design, work to develop a website, and establish an understanding of the basics of web design in order to effectively teach it to the rest of our class members. We plan on creating a website that will serve as the product of our work, as well as the method in which we will deliver the instruction to the class. We will create a website, each page being a tutorial on how to utilize a different function in Quarto. The home page will detail how to create a website, how to utilize folders to create different pages, and information pertaining to how to create a layout for the website. This will include pictures of R's IDE and descriptions that walk students through the steps to creating the project, creating folders, and the purpose of folders when creating the website. There will then be multiple pages of the website, each discussing a different feature. These will include a discussion of the purpose of the feature, an example of what it would look like on a website, and information on what code or function allows us to display that feature. For example, one will be about how to create blog posts, how to format these files, and how to add the author and date to a post. Another will discuss ways to add links, graphics, tables, two columns, and more. A third example of a page would be how to change the theme of the website, including colors, pre-existing themes, and the difference between a Quarto website vs. a blog when creating a project. We still hope to integrate our passion for the environment into this project, so we will be utilizing environmental data, images, etc. when creating example pages and displaying examples of how to utilize a specific feature.