Mini-Project Report

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The semantic elements used in my mini-project include headers, hgroups, navs, articles, sections, figures, figcaptions, footers, fieldsets and forms. Semantic markup in HTML is when the focus is put on the structure of the website and therefore the contents structural semantics/meaning rather than describing how the content is visually represented. It allows the meaning of the website to be illustrated to the browser and in turn the user. The developer is able to use tags and elements to navigate content on the web-page and provide information. Using semantic markup is important as it improves maintainability, allows developers to understand each other's codes easily since content is separate from presentation and is more accessible to more people. For example, <form> elements within my code allows an interaction from the user to submit information. This has allowed the user to enter details such as their email/password as well as input their blogs. Using a semantic structure for this has allowed me to display the form accurately without needing to worry about the way it looks. This is because it will function the same however way it looks.

If I were to do this project again, I could use a wide range of frameworks to aid in the production of my portfolio; for example, angular, vue, express and spring. For my front-end development of HTML/CSS, I would attempt to use other frameworks such as React rather than bootstrap. This JavaScript-based UI development library allows for less coding and improved performance of the webpage. This results in a more friendly experience for the user as well as me. Along with this another advantage of react over bootstrap is that webpages are more efficient due to the fact that it organizes code for future optimization leading to increased readability of the code and loading speeds. Another framework I could implement, but to support my back-end development such as PHP, is Django. This framework is implemented in python meaning it is very simple and concise. Using this framework in a portfolio will show to employers that I know and understand a wide range of languages and can implement them all together.