

# CSE312 Open Source Report

Technology: Materialize

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Materialize is a responsive front-end framework that has been developed by students at Carnegie Mellon University. It is based on Material Design, which is a design language created by Google. Materialize does the heavy lifting for styling our pages. It helps format the pages with ease and add certain stylistic elements. It also helps to easily design pages so they are responsive and viewable on different sized screens because the media queries are defined within the classes. This also ensures that the pages look the same across different browsers. Using this framework prevents us from having to create CSS pages from scratch because we can pull in it's predesigned classes.

Materialize works by providing a downloadable folder with a JavaScript file and a CSS file (<https://materializecss.com/getting-started.html>). The user then adds their website HTML pages to the same directory, which allows them to use the functionality from each file. The CSS file has a plethora of defined classes for elements such as color, layout, and typography. When creating HTML pages, the user can assign classes to each element to add the specific property. For example, users can utilize the grid layout system by assigning the row class to a div element and then assigning the column ("col") class to elements within that div. They can specify how many columns wide they want the element to be on a small , medium, and large screens, based on a 12 column system.

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