



## PROJECT SPECIFICATION

**Build a Portfolio Site****Design**

CRITERIA	MEETS SPECIFICATIONS
Required Elements	<p>The page at minimum includes all of the following:</p> <ul style="list-style-type: none"><li>• at least 4 images</li><li>• title text (h1, h2, etc.)</li><li>• regular (paragraph) text</li><li>• a logo.</li></ul>
Semantic HTML	<p>HTML5 semantic tags such as <code>&lt;header&gt;</code>, <code>&lt;footer&gt;</code>, <code>&lt;article&gt;</code>, <code>&lt;section&gt;</code> etc. are used to add meaning to the code.</p> <p>No <code>&lt;div&gt;</code> or <code>&lt;section&gt;</code> tags are without a <code>CSS</code> class or id.</p> <p>Check out the W3C documentation on <a href="#">HTML Structural Elements</a> to learn more!</p>

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Custom Design	<p>Provide at least one of the following customizations:</p> <ul style="list-style-type: none"><li>• Customize images and text.</li><li>• Customize placement of the elements on the page (grid layout) with <code>HTML</code>, <code>CSS</code> or both.</li><li>• Customize <code>CSS</code> styles applied at minimum to paragraph and heading elements.</li></ul>
Grid-Based Layout	<p>Page utilizes a grid-based layout with styles making use of the <code>flexbox</code> layout or a framework like <code>Bootstrap</code>, <code>Foundation</code>, etc.</p> <p>If you're using <code>Bootstrap</code>: the rows and columns of the grid must be wrapped in an element with a <code>container</code> class.</p>

## Responsiveness

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Cross-Device Compatibility	<p>All content is responsive and displays on all display sizes. This includes:</p> <ul style="list-style-type: none"><li>• Desktop</li><li>• Mobile: Google Nexus 5</li><li>• Tablet: Apple iPad</li></ul> <p>An image's associated title and text renders next to the image in all viewport sizes.</p> <p><i>TIP:</i> Test responsiveness with Chrome Developer Tools device emulation by right-clicking anywhere on page, selecting 'Inspect Element', clicking the rectangle to the left of the Elements tab, select Apple iPad or Google Nexus 5 from Device drop-down list, and click reload.</p>
Provide All Content	All content is rendered on all three devices. No content should be hidden on mobile devices.
Viewport meta Tag	Viewport <code>meta</code> tag is included in <code>HTML</code> . (i.e. <code>&lt;meta name="viewport" ... &gt;</code> )
Responsive Images	If a CSS framework is used, classes provided by the CSS framework are used to make images responsive, otherwise media-queries are used to ensure responsiveness of images.

## Separation of Concerns

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Styles Separated From HTML	<p>Portfolio completely separates structure ( <code>HTML</code> ) from design/style ( <code>CSS</code> ). There are no <code>style</code> attributes present in the body of the <code>HTML</code> document. There are no <code>&lt;style&gt;</code> elements in the document.</p> <p><i>Note:</i> It is acceptable to include <code>height</code> and <code>width</code> attributes in <code>&lt;img&gt;</code> elements.</p>
File structure	<p>Files are organized with a directory structure that separates files based on functionality. For example:</p> <ul style="list-style-type: none"> <li><code>css/</code> for stylesheets</li> <li><code>img/</code> for images</li> <li><code>js/</code> for JavaScript files</li> </ul>

## Code Quality

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HTML Formatting rules	<ul style="list-style-type: none"> <li>All code ( <code>HTML</code> element names, attributes, attribute values) is lowercase (except <code>text/CDATA</code> ).</li> <li>Code does not have trailing white spaces.</li> <li>Indentation is consistent (either all tabs or all 2 spaces or all 4 spaces etc).</li> <li>Code uses a new line for every block, list or table element and indent every such child element (it's acceptable to put all <code>&lt;li&gt;</code> elements in one line).</li> <li>[Optional] When quoting attribute values, code uses double quotation marks.</li> </ul>

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<b>HTML Style Rules</b>	<ul style="list-style-type: none"> <li>• <code>HTML</code> documents use <code>HTML5</code> <code>&lt;!doctype html&gt;</code>.</li> <li>• Code passes <code>HTML</code> and <code>CSS</code> validators.</li> <li>• *[Optional] Code does not use entity references unless necessary e.g. characters with special meaning in <code>HTML</code> (like <code>&lt;</code> and <code>&amp;</code>) as well as control or “invisible” characters (like no-break spaces).</li> <li>• [Optional] Code omits type attributes for style sheets and scripts.</li> </ul>
<b>CSS Formatting Rules</b>	<ul style="list-style-type: none"> <li>• Code does not have trailing white spaces.</li> <li>• Indentation is consistent (either all tabs or all 2 spaces or all 4 spaces etc).</li> <li>• Code indents all block content, that is rules within rules as well as declarations to reflect hierarchy and improve understanding.</li> <li>• Code uses a semicolon after every declaration for consistency and extensibility reasons.</li> <li>• Code always uses a space after a property name's colon, but no space between property and colon, for consistency reasons.</li> <li>• Code always use a single space between the last selector and the opening brace that begins the declaration block.</li> <li>• Code always start a new line for each selector and declaration.</li> <li>• Code always put a blank line (two line breaks) between rules.</li> <li>• [Optional] Code uses double quotation marks for attribute selectors or property values. Do not use quotation marks in <code>URI</code> values (<code>url()</code>).</li> </ul>

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CSS Style Rules	<ul style="list-style-type: none"><li>• Code uses meaningful or generic ID and class names that are as short as possible but as long as necessary.</li><li>• Code does not use element names in conjunction with IDs or classes.</li><li>• Code uses shorthand properties where possible.</li><li>• [Optional] Code omits unit specification after 0 values.</li><li>• [Optional] Code includes leading 0s in decimal values for readability.</li><li>• [Optional] Code uses 3-character hexadecimal notation where possible.</li><li>• [Optional] Code separate words in ID and class names by a hyphen.</li><li>• [Optional] Code avoids user agent detection as well as <code>CSS</code> "hacks"—try a different approach first.</li></ul>
General Meta Rules	<ul style="list-style-type: none"><li>• <code>HTML</code> templates and documents use <code>UTF-8</code> encoding. (no <code>BOM</code>) i.e. <code>&lt;meta charset="utf-8"&gt;</code>.</li><li>*[Optional] Mark todos and action items with <code>TODO</code></li></ul>

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## Suggestions to Make Your Project Stand Out!

Use `srcset` in the `img` elements to provide optimized images to users on all device sizes.

Include additional JavaScript functionality, while maintaining required components. For example: Bootstrap Navbar, Polymer Components.

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## Student FAQ