

#### **Project 3 - Using a Responsive Design Framework**

The focus of this project is to utilize the Bootstrap responsive design framework to make a responsive design website. Various implementations of Bootstrap components, utilities, and stylings will be included.

For this project, you may create a website topic of your own choosing.

• List of website topics

Website Topics
1) A food pantry
2) A local zoo
3) A small bakery
4) A local band
5) A used bookstore
6) A gardening group
7) A cooking group
8) A hobby group (of your choice)
9) An exercise group (of your choice)
10) A group to protect a wildlife creature (of your choice)
11) A sports fanatic group (sport of your choice)
12) A person offering music lessons (instrument of your choice)
13) A friend of park (State or local park of your choice)
14) Other – contact me prior for topic approval



_ 1)	Requirement #1 – General Outline
a)	Create a folder called <b>project3_xxx</b> where <b>xxx</b> are your initials
b)	Create appropriately named subfolders within <b>project3_xxx</b> for
	i) CSS files (styles.css)
	ii) JavaScript files
	iii) Include files
c)	Your website should have four pages (additional pages are allowed)
	i) Homepage (index.html)
	ii) Topic content
_	iii) Join Us (or Contact Us)
	iv) Student Choice
d)	Adjustments to the page names must make sense for your topic. For example, if you are
	working on the local band website, you may have a "Become a Fan" page for the "Join Us"
e)	Must provide an attractive and usable layout on all pages



_ 2)	Requirement #2 – Bootstrap Framework Integration
a)	All HTML pages utilize the Bootstrap version 5+ framework from a CDN (Content Delivery
	Network)
b)	Be sure to include any appropriate element tags in the head tag which Bootstrap requires to
	make the body content responsive
c)	Use a responsive fixed width container for all website pages
	i) Any area outside of the container should have a custom background color
	ii) The container background color should be white (or appropriate color based on your
	style)
	iii) Apply a custom background color to the header and footer
	iv) Apply a padding of 1rem to all sides of the main element
	v) Apply an appropriate Bootstrap text color to the header and footer
	vi) Apply centering to the text within the header and footer
	vii) Apply a top margin of 1rem to the footer
	viii) Apply a padding of 1rem to all sides of the footer
d)	Note: The only additional CSS that you are allowed to add to styles.css are ones to
	override Bootstrap stylings. Otherwise, you are to use the predefined stylings provided
	by Bootstrap



_ 3)	Requirement #3 – Header, Nav and Footer
a)	Include a header section on each page
	i) Remove any margin from the bottom of the header
	ii) Header should not extend outside of the container
	iii) Include a header using either a Bootstrap jumbotron or some custom header
	(1) Display an image that is responsive and automatically adjusts to fit
	(2) Document any image copyright within the HTML or CSS
b)	Include a navigation for each page
	i) Style with a black navbar including a navigation brand (project topic or appropriate
	name)
	ii) The navigation bar will
	(1) Display across the entire screen on medium or larger viewports
	(2) Collapse on any screen below a medium viewport
	(3) Collapsed navigation button should appear in the top right corner
	GOLDEN
	PILLPS

Header and Navigation on screens 768px or larger

GoldenPulps Home Comic Books Sneak Peek Artists Writers Contact Us



Header and Navigation on screens below 768px



After clicking on hamburger stack button



c)	Include a footer for each page
	i) Include other relevant text for the footer
	(1) Include your first and last name as the author
	(2) Include at least 2 other pieces of data (copyright, links, etc.)
	ii) Apply to at least 1 item within the footer
	(1) An appropriate Bootstrap style for the line-height
	(2) Apply a Bootstrap style for the text color
	(3) Align the text to be centered
	iii) Apply a Bootstrap style for the background color for the footer
	iv) Footer width should be the full length of the container
4)	Requirement #4 - HTML Includes
a)	Create a file called <b>header.html</b> which contains the header html code
	i) Store the file in the appropriate subdirectory created in Requirement #1
	ii) Include the newly created <b>header.html</b> file in all HTML pages
b)	Create a JavaScript file called includeHTML.js that will contain logic for including HTML
	i) Store the file in the appropriate subdirectory created in Requirement #1
	ii) Link the includeHTML.js JavaScript file to all HTML pages
c)	Create a file called navigation.html which contains the navigation html code
	i) Store the file in the appropriate subdirectory created in Requirement #1
	ii) Include the newly created <b>navigation.html</b> file in all HTML pages
d)	Create a file called <b>footer.html</b> which contains the footer html code
	i) Store the file in the appropriate subdirectory created in Requirement #1
	ii) Include the newly created <b>footer.html</b> file in all HTML pages
e)	After the includes are implemented, each HTML page should not look any different than prior
	to the incorporating the "HTML include."



#### \_\_\_\_ 5) Requirement #5 – Home Page (index.html)

a)	Includ	e at least 3 items (can be any mix of article, section, image, etc.)
_	i)	Provide content describing the organization's or group's purpose
_	ii)	Items will be flexed on this page
b)	For vi	ewports 768px or smaller:
_	i)	Wrap the flex items
_	ii)	Ensure the flex direction is displayed in columns
_	iii)	Ensure that items are evenly distributed across the line with the first item being at the

top start line and the last item being at the bottom end line



Example of Home Page below 768px viewport



c) <b>F</b> (	or viewports greater than 768px:
i	Have the first flex item take up 75% of the row
i	i) Include a nested row that will take up the remaining 25% of the row
	(1) Apply an appropriate column usage for second flex item
	(2) Apply an appropriate column usage for third flex item
	(3) Apply vertical spacing to each flex item
i	ii) If you included images, be sure all images on this page will be responsive and automatically adjust to fi
	the size of the screen



Example Home page above 768px viewport



_ 6)	Requirement #6 – Topic Content page
a)	If have not already done so, complete Requirement #3 and Requirement #4 for this page
b)	Include an appropriate page heading
	i) Apply a Bootstrap style for the text color
	ii) Align the text to be centered
c)	Include the use of cards on this page (use of card-deck is optional)
	i) Create at least 9 cards of data
	ii) For the card header
	(1) Apply a Bootstrap style color to the background scheme
	(2) Apply an appropriate Bootstrap style for the text color
	iii) For the card body
	(1) Apply a light background styling
	(2) Apply an appropriate Bootstrap style for text color
	(3) Apply the Bootstrap style for bold font weight to 1 item in the body
	(4) Incorporate at least 1 other piece of data into the card body such as
	(a) Responsive image
	(b) Text
	(c) Button (with an appropriate link)
	iv) Apply responsive design adjustments to the card columns with each card taking up
	(1) 100% of the row on extra small and small viewports
	(2) 50% (6 columns) of the row on medium viewports
	(3) 33.3% (4 columns) of the row on large viewport and above



_7)		Requirement #/ – Join Us (or Contact Us)
	a)	If have not already done so, complete Requirement #3 and Requirement #4 for this page
	b)	Include an appropriate page heading
		i) Apply a Bootstrap style for the text color
		ii) Align the text to be centered
	c)	Use a Bootstrap stacked form or inline form for layout
		i) EXTRA CREDIT OPPORTUNITY (2 points): Style the form using form grid
		(1) Apply a grid form which has 2 fields at a minimum on a single row (such as
		first and last name)
		(2) Apply a horizontal form grid
	d)	Apply the following general styles to the form
		i) Include the text "* - required fields" before all of the fields
		ii) Apply a Bootstrap style for a red text color to the "* - required fields" text
_	e)	All form field labels should be bold
	f)	Add a form to the page which collects the following information (use regex to check the
		formatting)
		i) First Name
		(1) Allow up to 40 characters
		(2) Required
		ii) Last Name
		(1) Allow up to 60 characters
		(2) Required
		iii) Email
		(1) Allow for basic email address
		(2) Required
		iv) Select
		(1) Select has at least 5 values
		(2) User can select multiple values
		(3) Display 3 values in the select window before having to scroll
		(4) Optional



-	v) F	Radio buttons
		_(1) Radio buttons at least 2 values
		(2) Include radio buttons in a fieldset with an appropriate legend
		_(3) Required
-	vi) (	Checkbox
		_(1) Check boxes at least 4 values
		_(2) Include checkboxes in a fieldset with an appropriate legend
		_(3) Optional
		_(4) Individual values should be sent to server
_	vii)	Comments
		_(1) Create as a textarea to capture all comments
		_(2) Optional
-	viii)	Include a Submit Button
		_(1) Use a Bootstrap style for the background color
		_(2) Use a Bootstrap style for the text color
		_(3) Use a Bootstrap style to apply an appropriate left and right margin to the button
-	ix) I	nclude a Clear/Reset button
		_(1) If clicked on, it should clear the form of any entered data
		_(2) Use a Bootstrap style for the background color
		_(3) Use a Bootstrap style for the text color
		_(4) Use a Bootstrap style to apply an appropriate left and right margin to the button
g)	Adjust tl	he styling of all fieldset legends
-	i) A	Apply Bootstrap style to auto size the width of the legend so that the line on the
	f	fieldset will go across the entire top of the fieldset border to meet up with the legend
	t	ext
-	ii)     A	Apply a Bootstrap style to a bold font weight
-	iii)    A	Apply a Bootstrap style to reduce the size of the font to a small (80%)
-	iv) A	Apply a Bootstrap style to adjust the text color



h)	Form should not display any validation feedback when first opened
	i) Validation feedback should only appear <u>after</u> the submit button is clicked
	ii) Any JavaScript that is required for form validation should be stored in a file named
	formValidation.js
	(1) Store any JavaScript files in the subdirectory created in Requirement #1
	(2) Add appropriate link to the HTML file for the JavaScript file
i)	For the form submission
	i) The action attribute values should be <a href="https://www.w3schools.com/action_page.php">https://www.w3schools.com/action_page.php</a>
	ii) The method attribute should use <b>get</b>
	iii) The form should prevent the form from submitting if validation minimums are not met
	iv) Use regEx in HTML attributes to be enforced with Bootstrap validation feedback
	v) Optional fields only require validation if something is entered
8)	Requirement #8 – Student Choice
a)	If have not already done so, complete Requirement #3 and Requirement #4 for this page
b)	Include an appropriate page heading
	i) Apply a Bootstrap style for the text color
	ii) Align the text to be centered
c)	The page content is up to you! This could be an "upcoming events" page or a "meet our staff"
	page. Think about what a good fit for your organization or group would be.
	i) Must contain at least 3 paragraphs of content
	ii) Use Bootstrap to make at least 3 different style adjustments to the page content
	(margins, padding, text color, background color, etc.)
d)	Using Bootstrap classes, hide the <i>second</i> paragraph when the page is printed
	the property of the second party of the property of the proper
	i) The print screen will vary depending on the viewport being displayed when the print is requested



9)	Requirement #9 – Minification
a)	Run all of your HTML files and custom CSS files through a validator making any corrections
	necessary
b)	Run your styles.css through Autoprefixer postprocessor to add vendor prefixes
c)	Update your styles.css to include the additional stylings
d)	Save a minified version of styles.css file as styles.min.css
e)	Update all of your HTML files to use the minified CSS file
<b>Assignn</b>	nent Submission
_1) Zip	o up the files in the <b>project3_xxx</b> folder
2) Sul	bmit the <b>project3</b> xxx.zin file using the Blackboard submission link