

0107571 Internet Programming Assignment 1: Responsive Design

Department of Computer and Communications Engineering
Tafila Technical University

1 Assignment

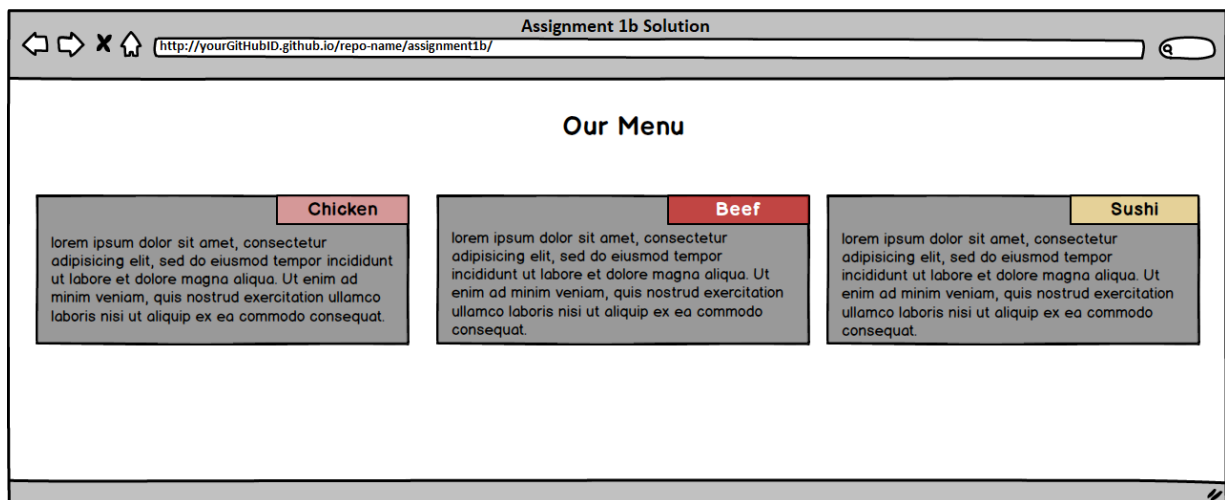
You need to do the following to complete this assignment:

1. Create a GitHub.com account and a repository that you will use for this class.
2. Create a repository and set it up such that you can host and view your finished web pages on GitHub Pages, i.e., GitHub.io domain name. You will need to provide that URL for your solution.
3. Create a folder in your repository that will serve as a container folder for your solution to this assignment. You can call it assignment1. Create an index.html file inside the solution container folder, e.g., assignment1/index.html.
4. The implementation of the page you will be creating should follow the mockup illustrations shown below. You are provided 3 mockups: desktop, tablet, and mobile. Your implementation has to be JUST 1 page, NOT 3 pages. In other words, you will be creating a single, responsive page.
5. Your page must include a CSS file. **No inline styles allowed.** Your CSS file should be placed in a css folder under the solution container folder, e.g., assignment1/css.
6. You are NOT allowed to use any CSS (or Javascript) framework for this assignment, including Twitter Bootstrap CSS Framework. No framework CSS files should even be referenced in your index.html, even if you are not using them. However, you MAY use the simple responsive framework we developed in the lectures for this assignment.
7. You must implement the following breakpoints that will be considered desktop, tablet, and mobile. The browser should display a desktop version of the site when the width of the browser window is 992px and above. Tablet view should appear only if the width of the browser window is between 768px and 991px, inclusively. Mobile view should appear only if the width of the browser is equal to or less than 767px.
8. Your site is very simple. It consists of a page heading and 3 sections (all in one row in the desktop view). Each section contains some text. You can make it dummy text/"lorem ipsum", it doesn't matter. How the sections are laid out on the screen depends on the width of the browser window. (Hint: use media queries.)
9. Layout: In the desktop view (992px and above), each of the 3 sections should take up equal amount of space on the screen. As you make the browser window wider or narrower, each section should become wider or narrower. (Hint: use percentages to define width and use the 'float' property.). For a visual reference of this view, see the desktop mockup illustration below.
10. Layout: In the tablet view (between 768px and 991px, inclusively), the first 2 sections should be in the first row and be of equal size. The 3rd section should be in the second row and take up the entire row by itself. For a visual reference of this view, see the tablet mockup illustration below.
11. Layout: In the mobile view (equal to or less than 767px), each section should take up the entire row. For a visual reference of this view, see the mobile mockup illustration below.

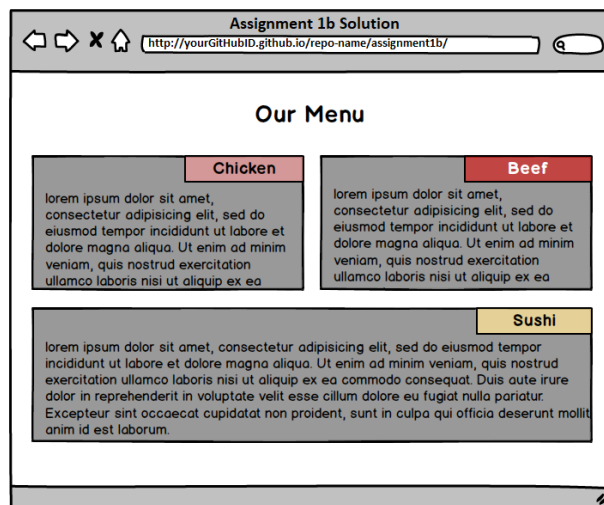
12. Section title region: Each section should have a section title region that is always positioned at the top right corner of the section no matter the view (desktop, tablet or mobile). Copy the titles from the mockup illustration (i.e., Chicken, Beef, Sushi). (Hint: use relative and absolute positioning and offsets)
13. Spacing: Pay attention to the spacing shown in the mockup illustrations. Note the spacing between sections (both horizontal and vertical). Note the horizontal spacing between the edges of the section and the edges of the browser window. Also, note the spacing between the dummy text in each section and the edges of the section. Lastly, make sure the dummy text is "pushed down" enough so it doesn't overlap the section title region. (Hint: use margins and padding and use border-box as your box-sizing.)
14. Borders and Colors: Each section should have a background color set to some color (of your choice). Set the background color of each section title region to some unique color (of your choice). Make sure that the background color still allows the user to view the text in the section and section title regions. Depending on the color you choose, you may want to change the color of the text so it can be easy to read. Set a black border on both the section and section title region that is 1px thick.
15. You need to explicitly set a font-family for the text in your page, so you are not stuck with the default browser font family. Also, set the font size of the heading and section title to be 75% larger and 25% larger (respectively) than the font size of the dummy text.

2 Mockups

Here is the mockup illustration of the desktop version of the site. Your final result should look very close to this mockup.



Here is the mockup illustration of the tablet version of the site. Your final result should look very close to this mockup. Note that in this view, the 3rd section takes up the entire row.



Here is the mockup illustration of the mobile version of the site. Your final result should look very close to this mockup.

