Spring Project: Product Website
CL Computer Science (B5)

Overview

Throughout the term, you will work with a partner to create a website that advertises and sells a product of your choosing (pick an existing product, or come up with your own original product!). Progress on this project will happen incrementally throughout the term, and your final website will employ HTML, CSS, and JavaScript code.

Deadlines

- March 29, 2:05 PM – *Proposal*
- April 11, 12:10 PM – *Basic Layout*
- April 23, 12:10 PM – *Inputs*
- April 25, 10:45 AM – *Responsive Interface*
- May 13, 1:55 PM – *Goals*
- May 17, 8:30 AM – *Check-in*
- May 23, 11:59 PM – *Code*
- May 24, 11:59 PM – *Reflection*

All submissions will be made to [Gradescope](#).

Details

First, a quick note on project scope: we will learn how to do a bunch of different things this term, but there are inevitably many topics in web programming that we will not be able to cover. Thus, please feel free to expand on the "hard requirements" listed with each part of the project – just make sure that you fulfill the actual requirements first!

PROJ1: Proposal

SUBMIT PDF FILE
Your project proposal should make it clear which product you want to promote, and give a rough idea of what your website will look like.

Hard requirements for PROJ1
- Names of project partners
- Name of product

- If you make up your own product, also include a description of your product and a quick design sketch to give an idea of what it looks like
- 1-2 sentences on why you chose this product
- Thoughtful sketches of what your website will look like; must include the following sections (but feel free to include more!):
  - Landing page
  - Information about the product
  - Quotes from satisfied customers
  - Product order form

PROJ2: Basic Layout

SUBMIT ZIPPED PROJECT FOLDER
By this point, you should have HTML/CSS code for the basic layout of your website. This means that your website should look reasonably close to your sketches from PROJ1, *even though some parts will not work yet*.

Hard requirements for PROJ2
- HTML styled with CSS
- Include a landing page, product information, customer quotes, and an order form, all filled with content. It's okay if the order form doesn't actually work yet; fill out the section with placeholder material or an unresponsive mock-up order form.
- Clean and clearly thoughtful website layout
  - Must make use of CSS positioning (either regular or flex)
- At least 3 images
- Should respond reasonably to window resizing

PROJ2.5: Inputs

COME TO CLASS READY TO SHOW YOUR PROGRESS
Add HTML input tags to your order form section. No need to write JavaScript code to make them responsive yet – this is just to make sure you do a bit of work over the long weekend!

Hard requirements for PROJ2
- HTML input tags in the order form section of your web page

PROJ3: Responsive Interface

SUBMIT ZIPPED PROJECT FOLDER
Once you've learned how to use JavaScript to respond to user interactions, incorporate it into your project to make your website more interesting.

Hard requirements for PROJ3

- HTML styled with CSS, with a JavaScript script
- An "order form" that allows the user to "buy" your product
  - Bare minimum: use a browser alert to provide the user with a personalized response generated from the order form
- At least two other responsive components. Here are a few ideas:
  - A button to change the color scheme of the entire website (ideally, something like this would be somewhat thematically related to your product)
  - FAQ section with a dropdown menu specifying which question category to view
  - Customer comments section that allows the user to enter a new comment, and then immediately updates to display that comment

PROJ4: Goals

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This is a small assignment due at the start of our project work week, just to make sure you have a clear plan of attack.

Hard requirements for PROJ4

- Tall: What tasks are you *positive* you can accomplish by the end of the week?
- Grande: What tasks are you *hoping* to accomplish by the end of the week?
- Venti: What tasks would be *amazing* to accomplish by the end of the week?

PROJ5: Check-in

NO SUBMISSION – CHECK IN CLASS

Here we check in on your goals from PROJ4. Make sure you've at least reached your "Tall" goal!

Hard requirements for PROJ5

- A website that has at least reached your "Tall" goal from PROJ4

PROJ6: Code

SUBMIT ZIPPED PROJECT FOLDER

This is the final code submission, due the night before project presentations so that Mr. Chung has time to download them and make sure everything works. Make sure that your code is clean and commented, and that your files are all organized well.

Hard requirements for PROJ6

- Finalized code for your project

PROJ7: Reflection

Write a quick reflection on your experience with this project.

Hard requirements for PROJ7
- How do you feel about the website you created? Are you satisfied/dissatisfied? Why?
- Did you and your partner collaborate well? From your perspective, what percentage of the work did each of you accomplish?
- How easy/difficult was it to complete this project? Please explain.
- If you could make one change to the assignment, what would it be? Please explain briefly.