

Final Project: Bountiful Foods

Overview

The final project is designed to be a comprehensive assessment of the course learning outcomes. You will be given content and functional specifications as if you were contracted to plan, design, and build a prototype website for small business. In addition, developmental specifications will be given to ensure proper assessment of the application of course content, skills, and technologies. This individual, term project will be of your own design and work. You may not consult nor work with any other individual nor group on the project. The content is fictitious, but the site should be complete without any placeholders. Create a working site containing relevant content. The images and brief verbiage may be referenced from other sources which will need to be cited in a resource reference/attributions page, which link will be located in the footer. This optional attributions page does not need to be styled.

This is a web course intended to help you learn how to construct websites using the core web technologies of contemporary HTML, CSS, and JavaScript. Third party templates are **NOT** allowed. Pages built from site builder software or drag-and-drop tools or that are based on existing sites are not allowed and will lead to a failing grade on the term project.





Description

Bountiful Foods is small business specializing in organic, locally grown foods. They are physically located in Carlsbad, California, however, they have many food trucks that cover the coastal area from Los Angeles to San Diego. The company sells fruits and produce directly from the farmers in the area, but also uses some national and international suppliers. The owner-operated company caters to walk in traffic at their storefront in Carlsbad and, of course, their food trucks. They deliver and manage those orders on the phone and via the website. The mission is to provide fresh and healthy food options, including organic, made to order, fruit drinks and fruit bags, to the local population and to tourists visiting the coastal areas. The theme should support healthy eating, organic bounty, and convenience




Content Specifications

The following design and content-specific items are required in order to meet the minimum functional specifications of this project and these specifications will be used in the final assessment along with the same [web frontend development standards](https://byui.instructure.com/courses/244784/pages/230-web-frontend-development-standards) (<https://byui.instructure.com/courses/244784/pages/230-web-frontend-development-standards>) used throughout the course and from the chamber project.

1.  The **Home** page is a contemporary, exciting landing page providing images of fruit and produce including specialty fruit drinks that are ready to serve and made fresh. The page must contain the following.
 1. Readily available navigation and business contact information.
 2. Summary information about any coastal area or areas in the southern California coast of your choosing.
 3. A call to action to make your own fruit drink mix. This link can link to the  Fresh page.
 4. Social media links (at least three) (no account necessary).
 5. The weather card(s) must summarize the current weather conditions for Carlsbad. Use the **OpenWeatherMap APIs (weather, forecast/daily)** and include:
 1. the current temperature,
 2. the condition description,
 3. the humidity, and
 4. a three(3) day temperature forecast.
 6. Include an information card about the total number of specialty drinks that the current user has submitted from the Fresh page form. This information should just be stored locally, with the user's agent (in their browser).
2.  The **Fresh** page contains a form that allows the user to build their own specialty drink.
 1. The form requires the following items from the user:
 1. first name,
 2. email,
 3. phone number,
 4. three (3) **select** element inputs that are populated with the available fruit to put into a drink.
 - Populate all three select elements with all of the available fruits.
 - Available **fruit options** must only come from this JSON data source for full credit consideration: [Fruit Data](https://brotherblizzard.github.io/canvas-content/fruit.json)  (<https://brotherblizzard.github.io/canvas-content/fruit.json>)
 5. and, include an area that allows them to add special instructions, if needed.
 2. **Do NOT** send the form to a new page upon form submission. Instead, use a JavaScript event handler to produce a formatted output area on this same page showing:
 1. the **input** values of the order (7 inputs = *first name, email, phone, three selected fruits, and special instructions*),
 2. the **order date**, and
 3. the total amount of **carbohydrates, protein, fat, sugar**, and **calories** based upon the three fruit choices selected on the form. The data source provides that information per

fruit.

3.  The **About Us** page provides historical information about the company and area plus contact information, and a Google Map and other relevant content.
4. If necessary, include a **resource/attribution page** that references outside content as a link in the footer.


This supplement page does not need to be styled.




5. Include the **last modified date** of the page in the footer using JavaScript.

Do not just duplicate the chamber projects header, navigation, footer, and other general layout. You must come up with a different layout and design for full credit consideration on the final project.

Developmental Specifications


The following development specifications are required in addition to the customer specifications in order to receive full credit on the term project.

1. Meet the specifications listed in the [230 Development Standards](https://byui.instructure.com/courses/244784/pages/230-web-frontend-development-standards) (<https://byui.instructure.com/courses/244784/pages/230-web-frontend-development-standards>) checklist.
2. Use a **lazy loading** technique to support progressive design.
3. The design is consistent throughout the website providing ease of **navigation** and supports excellent UX (user experiences).
4. Your page layouts may **not** be an exact replication of your prior assignment pages or sites. Plan to demonstrate your mastery of CSS Layouts by doing something different.
5. Follow **PARC** principles and **typography** best-practices throughout the website.
6. Implement an appropriate **font** of your choice, using a [Google Fonts](https://fonts.google.com/)  (<https://fonts.google.com/>) reference or equivalent resource.
7. Use the practice of **wayfinding** to improve the user experience of understanding where a user is on the website.
8. Ensure that there are no **spelling or grammatical** errors.
9. **Publish** the complete, working site to your GitHub Pages site.
10. Do **NOT** publish a link from your assignment home page portal.
Submit the absolute URL to your project folder, whatever you named it.
11. Complete the project on time.

Remember to use tools like [DevTools](https://developers.google.com/web/tools/chrome-devtools/) , [Lighthouse](https://github.com/GoogleChrome/lighthouse/) , and/or [CSS Stats](https://cssstats.com/)  (<https://cssstats.com/>) to help you troubleshoot and analyze your work.

Assessment

The goal of the assessment is not point accumulation, but rather the evaluation of the artifact submitted by the individual student in demonstrating mastery of the subject matter and the promise of continuing success in sequential courses in the field.

1. The final project is worth '100 points' to correlate with the standard grading scale and definitions of letter-based grading, i.e., the [Grading System](https://www.byui.edu/student-records/grades/grading-system)  (<https://www.byui.edu/student-records/grades/grading-system>).
2. The instructor will carefully evaluate the overall project artifact submitted by the student to determine the level of mastery of the WDD 230 Course Learning Outcomes and based upon the following.
 1. Meeting the course web frontend development standards on all pages.
 2. The proper and working application of the development specifications.
 3. The level of compliance in meeting the content and application specifications given in the project description.

Course Learning Outcomes

✓ **HTML** - *Develop web pages that are semantic and valid using contemporary Hypertext Markup Language*

✓ **CSS** - *Style web pages using valid, contemporary Cascading Style Sheets (CSS) and avoid all HTML presentation markup*

✓ **UX (User Experience)** - *Provide content that is visually appropriate, usable, and findable to humans and machines.*

✓ **Plan, design, and develop web pages and sites according to best practices of organization and maintainability.**

✓ **JavaScript** - *Work with JavaScript to manipulate the DOM, handle user-agent events, work with external APIs and JSON data.*

✓ **Professionalism** - *Work effectively, meeting the deadline, participate in the site plan peer reviews and facilitate a positive experience regardless of any self-perceived shortcomings.*