

ASSIGNMENT 3

The Smoothie Machine



DESCRIPTION

Build a simple form that allows a user to order a smoothie, including a number of ingredients and other suitable characteristics. Include an 'order' button that creates a smoothie object and presents it to the customer.

INSTRUCTIONS

1. Build a simple HTML form that you think would be appropriate for a customer to order a smoothie.
2. Be creative – what different options might you want your customers to have?
3. Validate the HTML smoothie order form.
4. Write a short piece of JavaScript to capture the values from each of the form inputs, when the user clicks the 'order' button.
5. Create a class for the Smoothie object, using the parameters from the order form you just created.
6. Visually output a description of the customer's smoothie to the HTML page.
7. Once you've completed the functionality of the interface, add some CSS to make the page visually attractive (don't spend too much time on this – the focus is the JS).
8. Ensure that all your HTML, CSS, and JS is well-commented, formatted, and organized.
9. Upload your application to a webserver.
10. Post the URL to **Assignment 3** on Blackboard.

TAKE IT FURTHER

1. Maybe add some pricing to the smoothie ingredients and present a bill to the customer.
2. Visually present the smoothie to the customer with an image of some sort.
3. Be original – what might make this application a bit more fun?

SUBMITTING YOUR WORK

Upload the HTML, CSS and any media files to a web server and then post a link to the document in the assignment on Blackboard. *Your work will not be graded unless it is posted on a web server.*

EVALUATION

Please refer to the chart (assessment rubric) below. You will be graded on *how well* you followed the *assignment instructions* from both a *technical* and a *creative* perspective as spelled out in the rubric. This assignment is weighted in terms of your final mark as indicated on the course syllabus.

Criteria	Mark
TECHNICAL EVALUATION	
HTML, CSS, and JavaScript is valid, properly structured, formatted and commented.	/5
JavaScript is well organized, with appropriate variable names and helpful descriptions for each section of the script.	/5
The basic functionality of the application is complete.	/5
The JavaScript includes properly built <i>variables</i> , <i>arrays</i> , <i>functions</i> , <i>loops</i> , and <i>conditional</i> structures as appropriate to the functional requirements.	/5
A JavaScript <i>class</i> is included in the script, with a <i>constructor</i> , and possibly one or more <i>methods</i> or <i>subclasses</i> .	/5
There are additional features and/or functionality that go beyond the basic application requirements.	/5
CREATIVE EVALUATION	
The application is fun, intuitive, and easy-to-use – a pleasurable user experience.	/5
The JavaScript is thoughtfully organized, and it offers a creative solution to the application requirements.	/5
There are other innovative or imaginative elements of the script that go beyond the basic application requirements.	/5
TOTAL	/45