

DIG3716c Assignment 4

Due By: 04/27/11 1:00pm

Delivery Method: Your assignment folder should be ~/public_html/dig3716c/assignment4

Overview

Design and implement a simple food ordering form that prompts the user for input and displays specific output in response to that input.

Specifications

Implementation

General

- Code should be indented to show element parent/child relationships
- The root directory for this assignment should be **~/public_html/dig3716c/assignment4**
- The image directory for this assignment should be **~/public_html/dig3716c/assignment4/img**, and all images that your site uses should be stored in this folder and referenced locally
- Your XHTML pages should be located in the root directory for this assignment and should be named **dinner.html**
- The <title> of each page should be "Assignment 4 – your first name your last name"
- No spaces or uppercase letters should be used in file names or directory names.
- All links need to be functional

XHTML Validation

- Your pages should validate as XHTML Transitional 1.0 (<http://validator.w3.org>)

CSS

- All styles must be documented in an external CSS file called **styles.css** and linked to the document using either the @import url rule or a <link /> element in the <head> of the document
- All presentational HTML attributes should be replaced with CSS rules
- You may (and are encouraged to) use a reset stylesheet
- You may use the 960gs Grid System
- The CSS directory for this assignment should be **~/public_html/dig3716c/assignment4/css**

JavaScript

- The JavaScript directory for this assignment should be **~/public_html/dig3716c/assignment4/js**
- You may not use any JavaScript libraries or any piece of a JavaScript tutorial presented outside of lectures and/or labs in this course
- You may not use the innerHTML property anywhere in this assignment

- You may not use the XMLHttpRequest object or any browser-specific variation of it
- All JavaScript code must be documented in an external JavaScript file named **a4.js** and linked in the <head> of each page
- You should only use unobtrusive JavaScript, and no JavaScript can appear in your HTML outside of the <head> element

Behaviors

Form Processing + Images

- All user input must come from input fields in a single form element
- All user submitted data must be stored and displayed to the page using DOM Core methods and properties after the form is submitted
- After the form is submitted (and data is valid), the form should be replaced with the full name, email, credit card number, and credit card expiration date they entered and a food order summary in the form of an image element that represents the items ordered
 - o For example, if the user chooses food items 1 and 3 and hits submit, an image should appear that contains food items 1 and 3
 - o There are multiple combinations of foods that could be displayed: 0, 1, 2, 3, 1+2, 2+3, 1+3, 1+2+3 – that means you'll need at least 8 images!

Validation

- All text fields should be validated on submit and the form should not be replaced until all data is valid
- First name – check if something has been entered
- Last name – check if something has been entered
- Email – check if the entered text contains a @
- Credit card number – check for these patterns
 - o American Express – starts with 34 or 37, contains 15 digits
 - o Mastercard – starts with 51, 52, 53, 54, or 55, contains 16 digits
 - o Visa – starts with 4, contains 16 digits
- Credit card expiration date
 - o MM/YY, for example 05/22, 11/02
- If a text field is determined to be invalid, the space to the right of the field should show an iconic representation of the error

Presentation

General

- Your site should have a color scheme that is consistent between views and content sections
- I should immediately be able to know that you put significant time and effort into designing your site **based on your wireframes**
- Your site should be centered in the browser window
- CSS relative and absolute positioning should not be used to control layout sections, but using the float property to position layout sections is fine
- Your site should have a footer that contains the text "Created by first_name last_name for DIG3716c in Spring 2011"

Content

- Your site should contain a form with the following fields
 - o First name (text)
 - o Last name (text)
 - o Email (text)
 - o Credit card number (text)
 - o Credit card expiration date (text)
 - o Food item 1 (checkbox)
 - o Food item 2 (checkbox)
 - 1. Food item 3 (checkbox)
- Your food display section should be at least 400x400
- HTML elements used in your site design should convey the appropriate **meaning** of the content they are marking up

Rubric

- Implementation General specs followed (-10 per error)
- Implementation XHTML spec followed (-10 per error, -5 per warning)
- Implementation CSS specs followed (-5 per error)
- /80 Behavior Scripting specs followed
 - 40 if your form doesn't submit as requested
 - 40 if your form doesn't validate as requested
- /20 Presentation specs followed
 - 10 if your site does not follow a unified color scheme, or I don't see any evidence that you attempted to create a color scheme.
 - 20 if I don't feel you put significant time and effort into planning and creating a site design
- Content specs followed
 - 50 if all requested content (including response images) is not included
 - 100 if any XHTML tables are used to represent non-tabular data
 - 100 if CSS positioning (relative/absolute) is used to position big layout sections
 - 100 if all requested content is not included
 - 100 if any JavaScript libraries or innerHTML or XMLHttpRequest are used
- /100 TOTAL