Client-side Web Technology: Project

Project

Due Date: 11:59pm 26 April, 2024 AEST

Before starting the project please read the [University policy](#) on assessment and submission requirements and student responsibilities.

This project is a considerable part of the course assessment. It is expected you will spend a significant amount of the course time on it. It should be started in the first weeks of the semester, and worked on throughout the semester.

As material is covered in the courses, start applying it to your project Web site.

Objectives

This assignment aligns with Course Learning Outcomes 1, 2, 3, 4, and 5. It assesses your ability to implement the correct use of HTML5/XHTML and CSS3, effective implementation of JavaScript or jQuery for dynamic elements, proper HTML5 form usage and validation, overall web design, usability, and accessibility, responsiveness to different devices, and the creation of a detailed report justifying design choices. The web application is evaluated for error-free functionality, design, and usability. Additionally, proper structuring of HTML5/XHTML, CSS3, and JavaScript with informative comments is crucial for successful completion.

Introduction

You have been asked to update and improve on a very old Web site. It is the site for an Indian Restaurant. The site as a whole has not been updated for years. The prices are the only things that have been changed.

The site is primitive and will require work to modernise. But the owners would also like the site to have extra features, such as:

- Online ordering for the take-away menu.
- Take-away application working well on mobile devices.
- Online booking for groups or events.

You can visit the current Web site, or download the entire site as a ZIP file.

Project Requirements

- Modernising the site will require expanding the site. That is, adding new elements, images and pages to the existing site.
- If the old site images are not appropriate for your new design, feel free to resize them, or use new appropriate images you have downloaded from the Internet. If you have to download new images, make certain you mark the images appropriately i.e The addition of an "Example" watermark added to the image.
- The site will have to be redesigned to be responsive. That is, so **all pages** respond to the different viewport sizes
- The take-away menu will have to be redesigned as a form, so that orders can be submitted on-line. Do not forget that online customers will have to leave a phone-number so they are contactable in case of unforeseen difficulties and a name to identify them when picking up.
- The menus must be viewable, and in the case of the take-away menu, also usable, at all viewport resolutions.
- A Report page should be added to the site. The report should be your rational for all of the design decisions you have made — this is a report to the owners of the restaurant so it has to be written for someone with very little understanding of Web design and very little technical knowledge. Explain and justify the new design, and the additions you have made to the old site. For example, new images, explain why the new images are require and why the supplied images are not adequate. The report should be a properly formatted HTML page, following the design of the site. The link to the report should be unobtrusively at the bottom of each page, with your name and student number
- The take-away application, should be based on the Web site's take-away menu page. The application should be simple and easy to use.
- The take-away application should use local storage to store the latest take-way order, and offer the user a chance to re-populate the application's form with the previous order.

Project Notes

- If in doubt, talk to the Examiner **before** committing yourself!
- The footer of every page should contain your name, student id, and a link to your Report pages.

- All HTML, CSS, JavaScript must be your own work. Images may be downloaded from the Internet as long as suitable attribution is incorporated unobtrusively into the page or the Report section (see Assignments).
- Feel free to re-use ideas and code from your CSC8740 assignments or any examples found on the CSC8740 course Web site. Do not use code downloaded from anywhere else!
- The DOM can either be manipulated directly using JavaScript, or you can choose to use jQuery instead. If jQuery is used it must be `jquery-3.5.1.min.js` which can be downloaded from the course Web site. No other library or framework is to be used.
- The `form method` attribute should be set to `POST` but the `action` attribute can be left blank as it is unclear where and to what Web script the data will be sent.
- All links should work. All links should be relative to the document they are in—that is links should NOT contain
  - A machine name, or
  - start with a slash, and
  - the HTML `base` element should not be used.
- Your site must work using Google Chrome (or Chromium), as this will be the browser used to mark your submission.
- As HTML5 is mandated, all style changes to HTML elements can only be accomplished using style commands.
- Do not use style commands needlessly—creating a class name, when an HTML element already exists that could do the task.
- Effort is expected to be taken with the style of the site via CSS—half a dozen minor changes to text or element backgrounds is not sufficient.
- You are expected to treat HTML, CSS, and JavaScript as you would for any programming language. As such, pay attention to your coding style, e.g., your code should:
  - Be simple and straight forward,
  - Be documented, e.g., comments at top of each document and on major sections,
  - Use meaningful names (variable and function names.)
  - Have an appropriate code layout, e.g., consistent indentation and use of white space in all source files,
  - strive for modularity, for reuse and visibility.

Marking Scheme

Correct use of HTML5/XHTML and CSS3.	10
Correct use of JavaScript, the DOM or jQuery.	10
Correct element use and validation of HTML5 forms.	10
Web Site: Overall Design.	10
Web Site: Usability and Accessibility.	10
Web Site: Responsiveness to different devices.	10
Web Site: Report justifying and explaining design decisions.	10

The Web Application: An error free working application that uses local storage to remember last order.	15
The Web Application: Design and Usability	5
All HTML5/XHTML/CSS3/JavaScript structured with informative comments.	10
TOTAL	100