

CIS 130

Tools and Technologies of World Wide Web

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Project Details

1. Introduction

The goal of this group project is to design and implement a web solution for a business of your choice. Each group of students will choose a business that provides either goods or services. Your group shall provide a web solution for creating an online presence for that business. While doing so, you experience the “learning-by-doing” of how to design and implement a fully functional web application for real-world problems. Your implementation should be consistent with the recommendations of the W3C and also adhere to “good web design scene”.

A great web site is analogous to building a great home, it takes planning, perseverance and a desire to do your best. Have fun with it and make the most of the experience.

For this final project, you need to work with a group of students (Max group size is 4). Please refer to Canvas page for forming groups and group guidelines.

2. Requirements

Your group is required to choose an organization, business, or any other enterprise that you will implement an internet support for. For the selected enterprise, create a functional HTML5 compliant web site, your site must provide for smooth transition and consistency of images and colors between all of its pages. You must incorporate CSS for all formatting. (See attached document for some guidelines to designing and implementing a usable website).

You may use a Web authoring application such as Dreamweaver to create your web site. However, I will pay special attention to these hand-written web sites. Furthermore, NO sites of the “traditional”, 4-5 pages of images related to vacation spots, cars, motorcycles, family album, etc will be accepted.

Design, implement, and demonstrate the client part of your project as an integrated user-friendly environment. Here are some further guidelines to consider:

- Choose a small business that doesn't have a web site. Examples include:
 - Insurance company

- Car dealership
 - Small retail store
 - Law firm
 - Doctor's office
 - Accounting office
 - Non for profit organization
- Research the business carefully to determine what kind of web solutions (web site) you can implement
 - You may need to interview the business owner
 - Research the marketing methods of the company
 - Determine if and what kind of online solution is needed
- Recommend an appropriate domain name and research it's availability
- Implement the web site with attention to:
 - Design techniques
 - Usability and functionality
 - Documentation

Here are *some* HTML5 implementation requirements:

- Your Web site must include at least one instance of the following:
 - Special characters
 - Table to display tabular content or to align content
 - Lists: ordered, unordered, or definition list
 - Images:
 - Image files should be appropriately (re)sized for the web.
 - All images should have use the alt attribute appropriately
 - Internal and external links
 - Image links
- For each page, assign an appropriate page title
- Your project must include at least one HTML5 form with the new HTML5 new input types
- Use CSS for formatting. Use only external stylesheets as possible
- Links should not be blue with lines underneath them—use pseudo class selectors to format them appropriately
- Your pages must be laid out entirely and appropriately. You may use *div* tags but I strongly recommend using the new HTML5 structural elements such as <header>, <article>, <section>, <nav>, <footer>, etc
- Use appropriate background colors and images

3. Enhancing your Web site:

Next, for the online support described above, you need to enhance your implementation by including at least one instance of the following:

Item	Environment	User Input	File I/O	Notes
1	JavaScript	No	No	
2	JavaScript	Yes	No	
3	DHTML (Extra Credit)	Yes	No	Works with common browsers
4	jQuery (Extra Credit)	No	No	
5	XML (Extra Credit)	No	No	

4. Documentation

Your source code must be sufficiently documented with your name, date, description, and references to original authors (if any). Proper coding standards must be followed (e.g. naming variables, indentation, etc.).

Create a written document one can use to access all applications and brief instructions about how to work with each item and how (where) this functionality fits in your project. Include in this document the URL of the home page for this site regardless of whether it is functional or proposed

Also, state the basic elements you included in your web site. Pay attention to things like:

- a) Detail the focus of your site by explaining what the main features of the site are.
- b) Describe your target audience.
- c) Outline the design goals of your site.
- d) Highlighting any technical or audience factors that could affect your site.

5. Grading

I will grade the assignment using the following criteria:

1. Do the documents have quality content?
 - a. Completeness
 - b. Accuracy

- c. Reflect lessons in book and class
2. Does the site appear professional?
3. Does the website created for project:
 - a. Has excellent layout and design
 - b. Function correctly
 - c. Has excellent site structure

6. Requirements Changes

The above requirements may change. Students are encouraged to attend class lectures, and check the course website and the discussion forum for possible changes and/or clarifications.

7. Discussion Forum:

- For any questions about this assignment, please post your questions in the “Project Open Discussion” forum in Canvas. Please check this forum regularly and feel free to respond to other student’s questions (I highly encourage and appreciate active participation in discussion forums).

7. Submission

- If your site is made available on the Web, submit the URL of the Web site
- Otherwise, the group must submit a **ZIP archive** with all files included (HTML5, CSS, images, media files, etc.). You need to make sure that your zip archive includes a folder structure in which related files are stored in separate folders. Also submit the written document described above as an attachment

Good luck to everyone, I look forward to viewing your work!