CS 412: Project Guidelines

The goal of this project is for you to build a complete website using all the technologies that we covered in class. The client-side of the application should be implemented using HTML, JavaScript/Jquery and CSS. The server-side part of the application should be implemented using MySQL database and PHP for server-scripting. You should try and incorporate Bootstrap as well. The site should be complete, validated, free of errors, and easy to use.

You may choose your own topic but it must be approved by your instructor.

Example Topics (must include database):
1. Restaurant Website which contains an Administrator role and Regular Customer view. Contains image gallery, menu, etc.
2. Site to sell clothing – contains shopping cart, image gallery, etc.

While you can choose the topic, you should include these features if appropriate:
1. Homepage
2. Navigation Bar
3. Image Gallery
4. Contact Information
5. Admin Page

Project Deadlines: *Late assignments will not be accepted.*

	Homework	Deadline	Points
Step 1	Choose Topic/Groups	Oct 13	5
Step 2	Project Proposal	Oct 20	10
Step 3	Client-Side Submission	Nov 17	30
Step 4	Server-Side / Final Project Website	Dec 15	55
	Total Points: 100		

Step 1 (5 pts): Choose Topic/Group (due Oct 13)

Teams: You can work individually or as a group (no more than 3 people). For each step, every group member must have an equal part in order for that individual to get full credit. You will also need to assign a group leader who should be someone organized who will submit the work before each deadline. That individual will also submit the names of the students who contributed to the project (by each deadline). If you do not participate with your group you will receive a 0. If the team leader is not contributing it is the job of the team to let me know.

Submission: Submit the following to the Dropbox titled Project Title
1. Project Title
2. Project Description - short couple of paragraphs describing the topic
3. Whether you are working individually or in a group.
4. If you are working in a group, one person can submit and list the names of the team members and who the team leader will be.

CS 412: Project Guidelines

Step 2 (10 pts): Project proposal (due Oct 20)

Submission: Dropbox (only one person per group needs to submit)

Make sure all the names of all project participants who collaborated are on this. If a student does not contribute to this part of the assignment, that student will receive a 0. If a student contributes much less than the other students in the group, points will be deducted accordingly.

Submit a document containing the following:
1. Determine the rationale or focus - what type of website are you going to build?
2. Design Goals - What is the site going to look like? Sketch/Draw out the design for the main page.
3. Target Audience - Describe the audience that your site is intended to reach.
4. Main Elements - the number of pages & a brief description of the content needed for each page (site should be a minimum of 5 pages)

Step 3 (30 pts): Client-Side Submission (due Nov 17)

Submission: Dropbox (only one person per group needs to submit)

1. Type in the URL of your project.

2. Submit a .zip file of all your code.

3. Submit through the dropbox screenshots of only the HTML validation of all of your pages.

4. If you are in a group, include a file stating which people in the group contributed to this part of the assignment and each of their contributions. If a student does not contribute to this part of the assignment, that student will receive a 0. If a student contributes much less than the other students in the group, points will be deducted accordingly.

Client-Side Structure Requirements (HTML, CSS, JavaScript/jQuery, and Bootstrap):

1. Minimum number of webpages: 5

2. All HTML pages should have appropriate meta data and titles in their head sections.

3. All pages should have html content in place (headers, sections, lists, etc).

4. You must have at least one list (unordered, ordered) not counting navigation or a table.

5. A navigation structure should be in place on all pages.

CS 412: Project Guidelines

6. Images should be in place. All image files should be placed in an images folder.

7. At least one form should be used.

8. Use at least 1 external CSS file, containing at least three class element, three id element, and three element type selectors.

9. Minimum of 2 declared font types.

10. The JavaScript shiv and the CSS workaround included for every page that uses HTML5 semantic elements.

    JavaScript shiv: Older browsers ignore the HTML5 semantic elements. The below JavaScript code (to be inserted in the html head section) adds these new elements (aside, figure, etc):

    ```
    <!--[if lt IE 9]>
      <script src="https://oss.maxcdn.com/libs/html5shiv/3.7.0/html5shiv.js"></script>
    <![endif]-->
    ```

    CSS workaround: in your CSS file include the below to make them block elements:

    ```
    header, section, footer, aside, nav, main, article, figure {
       display: block;
    }
    ```

11. An additional JavaScript or jQuery items of your choice used appropriately with your site.

12. Preferably Bootstrap should be used, though not required (checkout themes, templates, navigation, etc).

13. Each html page must be successfully validated!

14. You do not need to have a database or any server-side functionality working at this point of the project.

CS 412: Project Guidelines

Step 4 (55 pts): Server-Side Submission (due Dec 15)

Final Project Submission (Dropbox AND Discussion Board)

I Via D2L Dropbox: (If you are in a group, one person can submit)

1. **URL of the final project.**

2. **All project code zipped.**

3. **All HTML validation screenshots**

4. For those in a group, document stating who worked on this part of the project and each of their contributions. If a student does not contribute to this part of the assignment, that student will receive a 0. If a student contributes much less than the other students in the group, points will be deducted accordingly.

II Via Discussion Board (If you are in a group, one person can post – but each group member MUST comment on other groups' posts, see below)

1. Please post a link to your website on the D2L **discussion board** titled Final Project URLs. (If you are working in a group, one person can post it, but **each** group member must reply to two groups' project websites, see next step).

2. **Comment on at least 2 other groups' project websites** via the D2L discussion board**.**

Final Project Website Requirements (checklist):

1. All Client-Side Requirements listed in Step 3.
2. Any modifications from your instructor's feedback from Step 3.
3. Database must be used appropriately.
4. All forms should submit the information into a table.
5. All functionality must be complete (ex. if using an Admin/User logins)