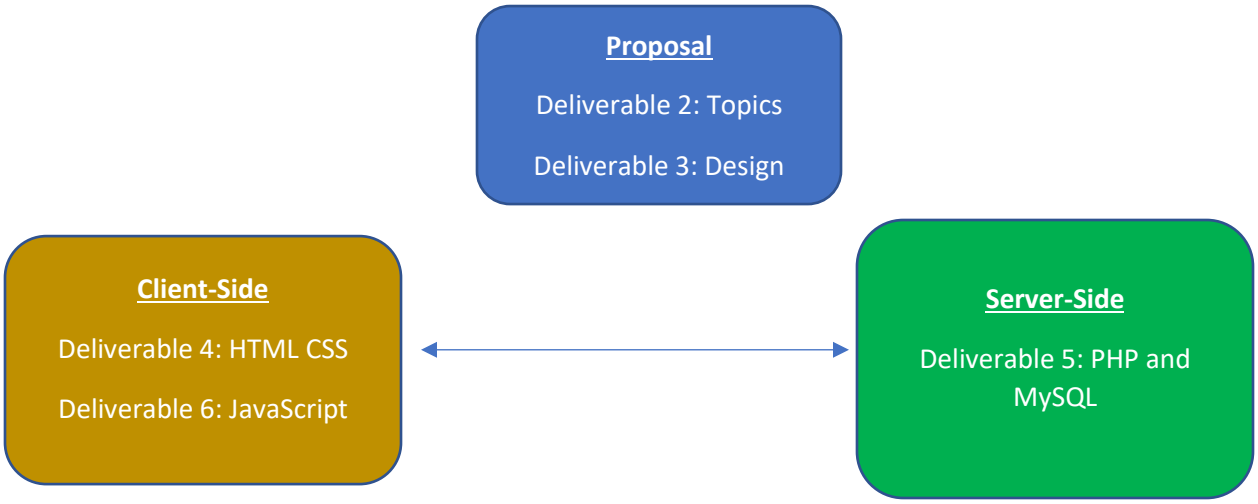
IS448 Entrepreneurial Web Application Development Project

Students are expected to work in groups to develop a web application with real - life, practical use. The project will be viewed from an entrepreneurial perspective, i.e., student teams will be treated as start-up companies that are designing and developing an innovative idea! The web application should be complex enough to incorporate forms, interaction with database, client- - side interaction with JavaScript and Ajax and server--side interaction with PHP.

Typically, a web application is developed by a team of web developers. Your team will mimic building a real-life web application. You will learn how to use client facing and backend technologies needed to build a web application. You can work with your team to identify your own project based on something that interests your team!

The following diagram will show the components you will be working and the order you will work on each component.



For deliverables D4 to D6, peer-review forms will be collected each time and used to determine a student's grade for that deliverable. It is important to remember that it is possible for students on the same team to receive different grades for a deliverable. Especially in D4, D5, and D6, student's grade will contain an individual component (80%) which is based on the code they wrote for their use case and a group component (20%) which is based on the ability of the team to get together before the deadline and integrate the individual use cases' code written by the individual team members to create a complete web application. So, it is very important to realize that each member in the group is expected to write the code for their own use case and that not all members of a group will get the same grade for a deliverable.

Due Dates

There are approximately 6 deliverables in the project. See the course schedule for due dates

Deliverable 3: HTML CSS Due (20 points)

- Client-side Design (HTML/CSS)
    - Transform your UI design into web pages
    - Create web pages using HTML, CSS that will be part of your project
    - Host your app on our Student Webspace Server (SWE)

In this assignment, you will work in your project groups to build a mockup of the project you proposed in the previous deliverable using HTML and CSS.

The goal of this deliverable is for you to create a basic design that you will use and embellish over the course of the semester. For the purposes of this deliverable, you will be making at least five different screens (UIs from previous assignment or newly designed UIs) that will be part of your project. You are welcome to make more. As an example, you may choose to create the landing page, login page, and some data entry page (s).

Before you start coding, coordinate with your group to decide on what elements and styling you want common across your pages:

As an example:

- *What background color are you using?*
- *What fonts are you using?*
- *What colors should buttons be?*
- *What header are you using?*

Also establish how you are going to track various versions of your documents. When working with a group, things can get messy very quickly if these discussions are not had up front.

Outside-in, not inside-out! You should start by creating static HTML / CSS layouts and **not be concerned with how the pages will handle information** (e.g., how to store and process it). For HTML that will eventually be created dynamically based on data or user actions, you should build a mockup and display a version of the page with dummy data.

You will also ensure that your code is valid HTML5 (to ensure optimal compatibility)

Minimum Requirements

- HTML: Create at least five different screens with respect to the functionalities you proposed
    - If you are building a single page application, be sure to have them as three different views on the same page (you will later add dynamic behavior to each view)
    - The screens must allow users to interact with the system
    - At least one screen must accept users' data entries (i.e., inputs)
    - You decide the kinds of HTML elements (for data entries) that are appropriate to your project
- CSS: Define at least ten different CSS rules. They must be your own CSS rules. If you have ten CSS rules that set ten different font colors, for example, they are counted as one.
    - You are expected to define CSS rules to style the screens
    - Some of your CSS rules may be inline or at the document level
    - Some of your CSS rules may be in an external CSS file (preferred)
        - Reminder: each CSS rule consists of (i) a selector and (ii) a collection of declarations. Thus, having a single selector with multiple declarations counts as one rule. Likewise, having multiple selectors share the same declaration block also counts as one rule.
    - Have at least one external CSS file
- Use good coding style
    - Make identifier names understandable.
    - Use proper and consistent indentation.
    - Use comments.
    - Use carriage return.
- Deploy your app (.html, .css) to our swe server.
- Include the URL for your app in a comment in the header of your index.html file.
    - One team member should be nominated to store the project on their web space going forward to avoid confusion. For every deliverable going forward, make sure to make a folder on the webspace called 'deliverableX' and place all the files in the folder (i.e. https://swe.umbc.edu/~zzaidi1/is448/deliverable4).
    - When you work on the next deliverable, you will create a folder called 'deliverable5' and copy ALL files from D4 and place them in the new folder and make any changes there. You will be repeating this exercise for D5, and D6. YOU DO NOT NEED TO PLACE AN INDEX.HTML FILE IN THE DIRECTORY

ALL TEAM MEMBERS are required to code for this project. Please explicitly list what html or css pages each team member contributed to and who is hosting the site. This deliverable requires **significant collaboration between team members so please establish deadlines in advance on when members need to get their piece done**. Give your team adequate time to put all the files together so you can submit them as a single web application. **Your team is not expected to submit your code if you wait until AFTER the agreed upon deadline to submit it to them**. Peer Evaluations will be collected for D4, D5, and D6. Going forward students grades will be comprised of the following:

a. Group Grade
b. Individual Coding Grade

c. Peer Evaluation Grade

What to submit

- A link to your project
- A zipped folder with all files pertaining to the deliverable (all html and css files)
- Include a word document clearly identifying:
    - What each group member contributed towards (Please explicitly list what html or css files each member worked on) – Sample table provided below
    - The team member that will be storing the project on their web space.
    - List which Use Case each html file aligns to you (or if you needed to change a Use Case – please identify which original use case you changed)
    - List out the deadline you established for your group to get their portion complete and clearly indicate if anyone missed the deadlines.
    - Your sitemap (this can be the same sitemap you delivered in D3, or if you need to modify your previous sitemap please update accordingly)
    - Please include a title page for the entire document listing out all team members. Make sure a team member reviews the document for grammar and spelling mistakes. Your team should be submitting 1 document that is cohesive (make sure fonts are consistent in the document).

Rubric

Group	• Successful Submission of web application link and files • Word document	4 points
Individual	• HTML Files (7 points) • CSS Files (7 points) • Submitted files within team deadline (2 points)	16 points

Group Member contribution chart

Group Member Name	Section contribution
John Doe	**Hosted site**
Michael Smith	**Test.css, Test.html**

*Each member will be graded upon the contribution they made towards the deliverable, so all members may not earn the same grade

***Project credit: CSMN 4640 Virginia State University*