Final Project | Project Proposal, Deadlines

CPSC 2030: Web Development II

Final Project

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- Your task is to create a dynamic website using PHP, a MySQL Database, CSS, and JavaScript/jQuery, that is based on a topic of your choice.

- **Choose a topic that interests you** and that you will enjoy working for the remainder of the term. Ideally, this site will be a good addition to your portfolio. Think of this as a project that you can use to showcase your web development skills to potential employers.

- The final project is worth 20% of the course grade.

Final Project

Your site should include the following:

- At least three pages

- A layout that uses **CSS Grid** and/or **Flexbox**. (No float-based layouts allowed!)

- At least one element that uses **CSS transitions**, and at least one **@keyframes** animation.

- Some **JavaScript** <u>and/or</u> **jQuery** functionality. This could be a keyboard-accessible menu, collapsible content, an image slider, etc.

Final Project

Your site should include the following:

- Dynamic content that is stored in and fetched from a MySQL database;

- At least **one form with validation** (client and server-side. Feel free to use a JavaScript plugin, but implement your own PHP validation);

- Some way for the user to **update records** in the database <u>or</u> **add new records** to the database;

- **Security measures** that prevent malicious activity (eg. **prepared statements** to prevent SQL injection attacks);

Final Project

Your website should also satisfy the following criteria::

- **Responsive, mobile-first design**: Your site should respond to any kind of viewport, from a small mobile phone to a large desktop screen.

- **Tested and free from errors**

- **Well-designed**: It should be easy to use your page. Navigation should be easy to figure out, text should be easy to read, and one shouldn't have to hunt around for what they're looking for.

For the full list of requirements, read the **project instructions document**.

A few other things

- **Try to be as original as possible;** I'll be considering creativity and challenge level when grading; try to use the tools we've learned throughout the course to create something different than what we've done in the assignments.

- **You are not required to create original content for this site, although you may choose to do so anyway.**
    - Feel free to use text from Wikipedia or some other source that provides content under a Creative Commons license.
    - You may use any images that are either in the public domain or licensed for use under Creative Commons. Of course, you are free to use your own images and writing if you choose.
    - **Remember to cite your sources.**

Bonus

- I may award a small bonus for functionality that goes beyond what we've learned in the class, or represents a high difficulty level.

- If you have any ideas for bonus functionality, feel free to ask me or include it in your proposal.

Project Instructions, Proposal, Deadlines

- Please read the **project instructions** document carefully.

- Start working on your **project proposal**. It is due on Tuesday (July 4th).

  - You can either choose to **demonstrate your project in-person** (you will be assigned a 10-minute slot on July 25th/July 28th/Aug 1st). **OR**

  - Provide a **demo video (URL/file)** as part of you final submission where you run your project and demonstrate the main features (August 2nd).

- The final project submission deadline is **Wednesday, August 2nd**.