Final Project Intro / Proposal

CS-546 – WEB PROGRAMMING

Introducing the final project

Last week, you were asked to form groups for your final project.

Starting this week, the final project will formally begin. Your final project is going to last through until the end of the semester, with small goals due at several points.

Your first goal will be due next week: submitting your final project proposal.

You should keep in contact with me throughout the **entire** project duration with any issues (technical or not) that are occurring, so that we may address them as fast as possible.

What is the final project?

The final project is a multi-week, team effort to create a complete web application. You will use components from every portion of the course:

- You will create valid HTML pages that are styled with CSS
- You will use Express and Node.js to handle your server and your backend requirements
- You will persist data in a MongoDB database.
- You will use browser-based JavaScript in order to enhance the functionality of your page
- You will defend against basic security attacks
- You will create accessibility-friendly pages.

What is a web application?

A web application is a website that performs some form of functionality for a user. This could be as simple as a blogging platform, or as complex as you can imagine!

For the final project your application must implement all of the following:

- A user login system
- AJAX form submissions (at least one) and error checking
- Data-related code organized in modules.
- A single configuration file that will store configuration settings
- A print CSS layout

Sample Web Applications

GOOD IDEAS THAT WILL BE ACCEPTED

A recipe website that allows searching for recipes based on ingredients

A file parser that will take text files and run statistics on them that can be compared to other files

A website that uses other APIs and aggregates / standardizes data.

BAD IDEAS THAT WILL NOT BE ACCEPTED

A blog (too simple)

An OCR platform that will index text from an image (too complex)

A todo list (too simple)

A real-time news application that runs off of websockets to deliver real-time updates (too complex)

Your proposal

The first thing that your group must submit is your final project proposal.

This proposal will give a brief description of your project idea, and all features it will include.
◦ Submit two feature sections: core (**you must implement**) and extra (**implement if you have time**)

I will approve, reject, or conditionally approve each of your proposals:
◦ Approved means your project looks to be fair, and you will not be over your head
◦ Reject means that we will need to develop a new project idea
◦ Conditionally approved means that your project is on the right track but needs to be refined before being reproved

I may supply additional comments listing additional features / striking features from your project.

All core features must be delivered, or you will receive points off your final project.