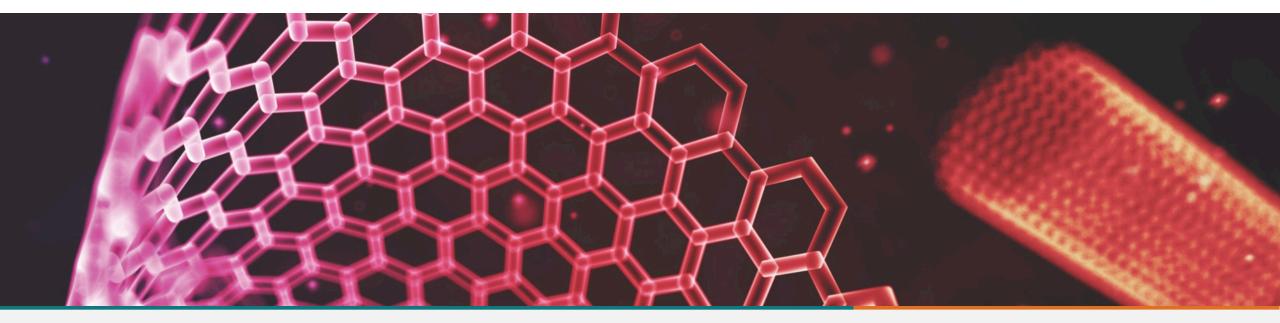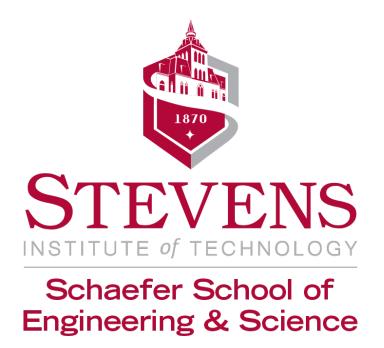# CS 546 – Web Programming I
Final Project Intro & Proposal

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Introducing the 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 stay connected 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(client-side) JavaScript in order to enhance the functionality of your page.

- You will defend against basic security attacks.

- You will create accessibility-friendly pages.

- You will create a system that authenticates users.

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.

- Use of a MongoDB Database.

- Basic defense against XSS attacks.

- Use of client-side JavaScript

- All error handling

- You will need to validate your user's input in 3 places. On the client-side (to avoid unnecessary requests to the server), in your routes and in your DB functions.

Your Proposal

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

This proposal will list the group members, give a brief description of your project idea, and all features it will include. Using a GitHub repo is required, and the URL **MUST** be supplied in your proposal.

- 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.

I may supply comments listing additional features/removing features from the project.

All core features must be delivered, or you will receive points off your final project, None of the required features i.e. User sign up and login, cannot be listed as a core feature nor can any of the project requirements.