Web Development – Tasnim Ahmed

Spring Final Project – Web Application

**Description:**

The web application I intend to design for the spring final project will be a continuation of the fall final project.

I will rebuild all of the old algorithms and design it from the ground up all over again and make it look pretty.

For the new add-ons, I want to mess around with the computer’s microphone; we haven’t covered it in class, but I can probably figure it out on my own.

There will be two new pages:

The first new page will determine what pitch is being delivered into the microphone. Different notes have different frequencies, so I can take the live mic input and test for the closest acknowledged pitch it matches based on frequency. The page will display a live frequency counter and a live pitch.

The second new page will automatically “harmonize” whatever is being put into the mic. There are specific intervals based on what chords you’re trying to form, and for this site, I would use the basic two: major and minor. Utilizing an algorithm for determining pitch from the last new page, I could simply make two new note objects and give them frequencies added on from the root input to make it sound like a chord.

I’m more confident that I can get the first new page to work than the second new page, but I’m pretty sure I’ll be able to figure I out.