

AutoDemo

Project Goal:

AutoDemo is a musical audition web app that records from the user's computer microphone and layers it over a vocal or instrumental track so that it can be used as a demo or submission for an audition. Completed audition recordings can be sent via email or saved to a local computer.

Features and Components:

Using a combination of Web Audio API (WAA) and ^jQueryUI, a very functionally simple and user-friendly application can be created. Users will be able to record their live sound through a microphone input on their laptop or desktop computer, and then layer it on top of an existing track to create a simple demo. Audio that is recorded will also be equalized and compressed using WAA, so when the audio is combined, it will sound like a cohesive track.

AutoDemo's entire audio framework will be built using the Web Audio API. The Web Audio API provides the necessary tools to playback, filter, record, export, and otherwise manipulate audio using JavaScript.

Where the Web Audio API provides the functional framework for AutoDemo, ^jQueryUI will provide a straightforward GUI for AutoDemo. Using HTML, CSS, and ^sJavaScript, AutoDemo will present a user-friendly way to make recordings.

You must include references to the WAA especially, but the other components, too.

*The first 2 paragraphs here
are feature descriptions, not
user descriptions.*

User Descriptions:

AutoDemo is primarily targeted at ensembles looking for new members. Often the musical audition process can be tedious. Large groups of applicants, limited audition venue availability, and scheduling difficulties contribute to the difficulty of this process. AutoDemo will relieve some of these factors.

You've got to be consistent.

An ensemble leader can share a link to AutoDemo preconfigured with tracks that have the part to be auditioned removed. Applicants can then record themselves along with the existing parts. Applicants will then be given the choice to submit their recordings to the ensemble leader and/or download the recordings they create. The ensemble leader will be emailed applicants' recordings along with their contact information.

AutoDemo can be used by multi-part musical ensembles for their audition process. Ensembles of this type include, but are not limited to: barbershop quartets, string quintets, motets, rock and roll bands, SATB choirs, and ~~u~~ ~~p~~ ~~a~~ ~~c~~ ~~a~~ ~~p~~ ~~e~~ ~~l~~ ~~l~~ ~~a~~ groups. AutoDemo will be designed to suit professional, educational, and amateur ensembles easily.

*That's a huge claim
I rather doubt it.*

Schedule:

Prototype Demo	Feb 27
Alpha Release	March 6
Beta Release	March 27
Final Release 1.0	Late April

*Much more detail is needed here. What are
the individual tasks? Which of you will
do which tasks? This schedule really
tells me nothing.*

Possible Issues:

Possible issues with AutoDemo are centered around the mixing and production of the final recording. There is a notable amount of variability inherent to ^{the} method with which ^{we} ^{will} solve the problem. Computer microphones are not consistent in response time, frequency response, and a number of other audio factors upon which we will rely. The final product of the application needs to blend the user's recording into an existing recording. Our application will need to adapt to the user's computing environment so that the blend is optimal.

How will you address these? What are your fallback strategies? No coding issues anticipated at all?

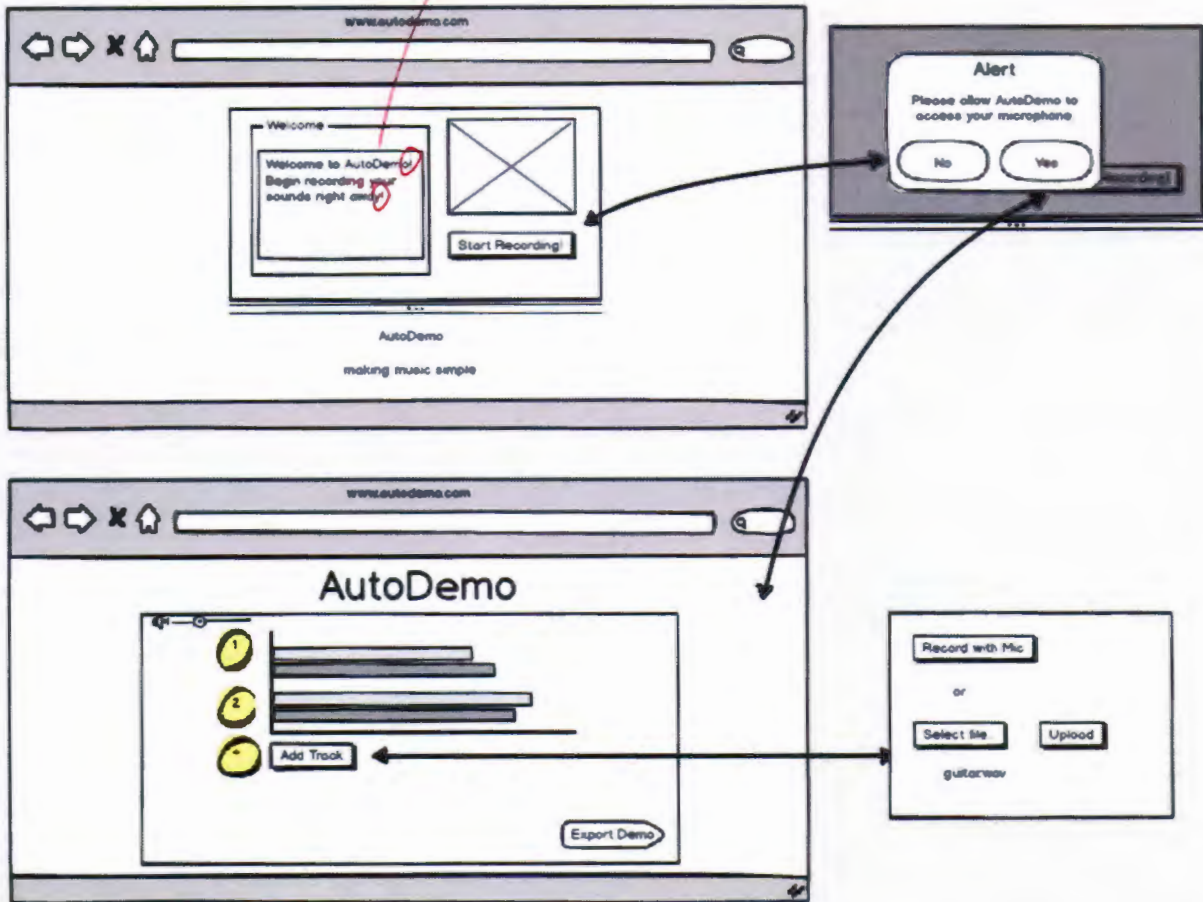
Acceptability Criteria:

- Application must record user audio successfully while simultaneously playing back an existing track.
- Application must be able to combine, equalize, compress, and mix audio tracks provided by the user into one cohesive track.
- Application must be able to send completed works to ensembles scouting for talent, as well as allowing the user to save a copy of the demo to his or her hard drive.

These mockups should be discussed in the text. Don't just assume that the reader can make connections between these and what you wrote.

do not use exclamation points

Mockups:



Your proposal is OK as far as it goes, but much more thought & detail are required in the places I've indicated.

G F C U D S A P

4 6 5 2 2 0 4 4 / 27

including info in first 2 paragraphs
on page 2