

**Team Member:**

Qinyu Chen

**Programming Platform:**

Web Audio

**Product Goal:**

A virtual musical instrument that allows users to play notes and compose music

**Anticipated Result:**

Users will be able to play notes by pressing the keys on the keyboards of their laptops. Ideally, They will also be given the option to "record" and edit their performance and play it back.

**User Interaction:**

Upon opening the app, users will be shown a series of notes, each with the pitch name and corresponding keyboard letter on it. They can play a note by pressing a key and the notes they are playing will be highlighted. There is also going to be a control panel where users can change the texture of the notes, record and stop recording, and play the composition that they have recorded.

**Timeline:**

May 10 - May 20:

Implement the basic feature that allows users to play notes. by pressing on keys. The notes should be highlighted while they are played

May 20 - May 25:

Implement the feature that allows users to change the texture of the notes

May 25 - June 6:

Implement the advanced features that allow users to record and playback their performance. Ideally, users will also be given the option to edit their composition and export it as a .wav file

June 6 - June 7:

Further polish the UI

**Existing Models:**

[Synthesizer with vibrato](#)

[Virtual Piano](#)