**Project Proposal Document** 

Project Name: Voice Transformer

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Class: CS410P

Assignment: Course project

**Project Vision** 

The main purpose of this app is to process sounds, add different effects to

sounds, and plans to implement interesting functions such as changing the gender and

age of the voice. In addition, there is support for custom parameter settings that allow

users to create their own sounds. The user will input audio through the microphone, and

then the program will output the processed audio. The program will be developed using

python, and the total development time is expected to be 4 weeks.

**Project Challenges** 

This is my first attempt at a complete sound programming project, which will be a

challenge as it may involve many new areas of knowledge that I have not encountered

before. Additionally, I have never designed a complete and attractive user interface for

my programs, and this time I plan to try doing so.

## **MileStone**

**Week1:** Setup GitHub repo, select audio processing libraries, and draft UI design. The main purpose of this week is to clarify all the functional details of the program and how to implement it

**Week2:** This is the main development phase, writing functions to implement as many functions as possible

Week3: Develop the client application to realize all UI design concepts

Week4: Testing phase, testing the program to fix bugs and optimize the program