PROPOSAL

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Project Name: SynthScribe

GitHub Repository: https://github.com/SayleeMJ/CS-510-Sound-Project

Project Vision:
The SynthScribe application aims to turn smartphones and tablets into portable synthesizers, allowing users to create music wherever they go. This mobile application will feature a touch-friendly interface with simulated knobs, buttons, and sliders for controlling various synthesis parameters. Users can easily learn about sound synthesis concepts, experiment with various sounds, and produce music.

Features:
1. Real-time Synthesis: The app would allow users to hear modifications to their compositions immediately.
2. Touch-Friendly Interface: The app will provide intuitive controls for altering elements such as pitch, filters, and modulation, making it simple for users to produce music.
3. Interactive Tutorials: The app will include tutorials and demonstration videos to teach users about synthesis ideas.

Extra Features:
1. Sharing and collaboration: Users will be able to share their created sounds with other users via the program, allowing them to interact and work together.
2. Multi-instrument Support: The app will support a variety of instruments, allowing users to produce a wider spectrum of sounds.

Required Stack:
- Android Studio: For user interface
- Python and Python Library: For Backend such as Audio Processing, and data storage.

Issues of concern:
- Balancing minimalism without losing utility will make it difficult to achieve a pleasant user experience.
- Implementing secure sharing tools to safeguard user composition and prevent illegal access.