

Ideation and Stakeholder Needs Analysis

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Stakeholder Identification and Needs Analysis:

Identify primary stakeholders (e.g., end-users, businesses, or communities) for your project and describe their specific needs or challenges in the ICT context (e.g., need for secure IoT devices for smart homes or scalable cloud solutions for small businesses). Use methods like interviews, surveys, or market analysis to gather insights (cite 3-5 credible sources, such as industry reports, user feedback, or case studies; avoid unverified internet sources or general media).

1. Music Producers (I have been one so I have personally faced the below mentioned problem statement and even more than it)
2. Music Students
3. Music Enthusiasts
4. Sound Designers

Problem Statement:

While there are many hands on learning tools for learning various web development related concepts, there clearly is a dire need of tools to learn various things related to audio engineering. My project tries to simplify the process of learning sound design for people new to it.

Hereby, I propose simple-synth, a synth that is very easy to use for the beginners and has all the features that a newbie in the field will require to learn when they are learning sound design.

Ideation of Solutions:

- A web based portal to instruct for the same but that will have deployment issues later and will increase computation cost on my side.
- A second approach would be to make a very simple to use and easy to learn synthesizer that will be a desktop application which will run natively on the user's computer.

Relevance to ICT Domain:

- This project is especially very related to the ICT Domain since now I can now apply all the knowledge that I have gained through learning subjects like DSIP, Signal and Systems, DSA using C++, ICE and ADC.
- This project was heavily dependent on the concepts of Digital Signal Processing which included topics such as Oscillators, LFOs, Filters, Convolution, Compression etc.