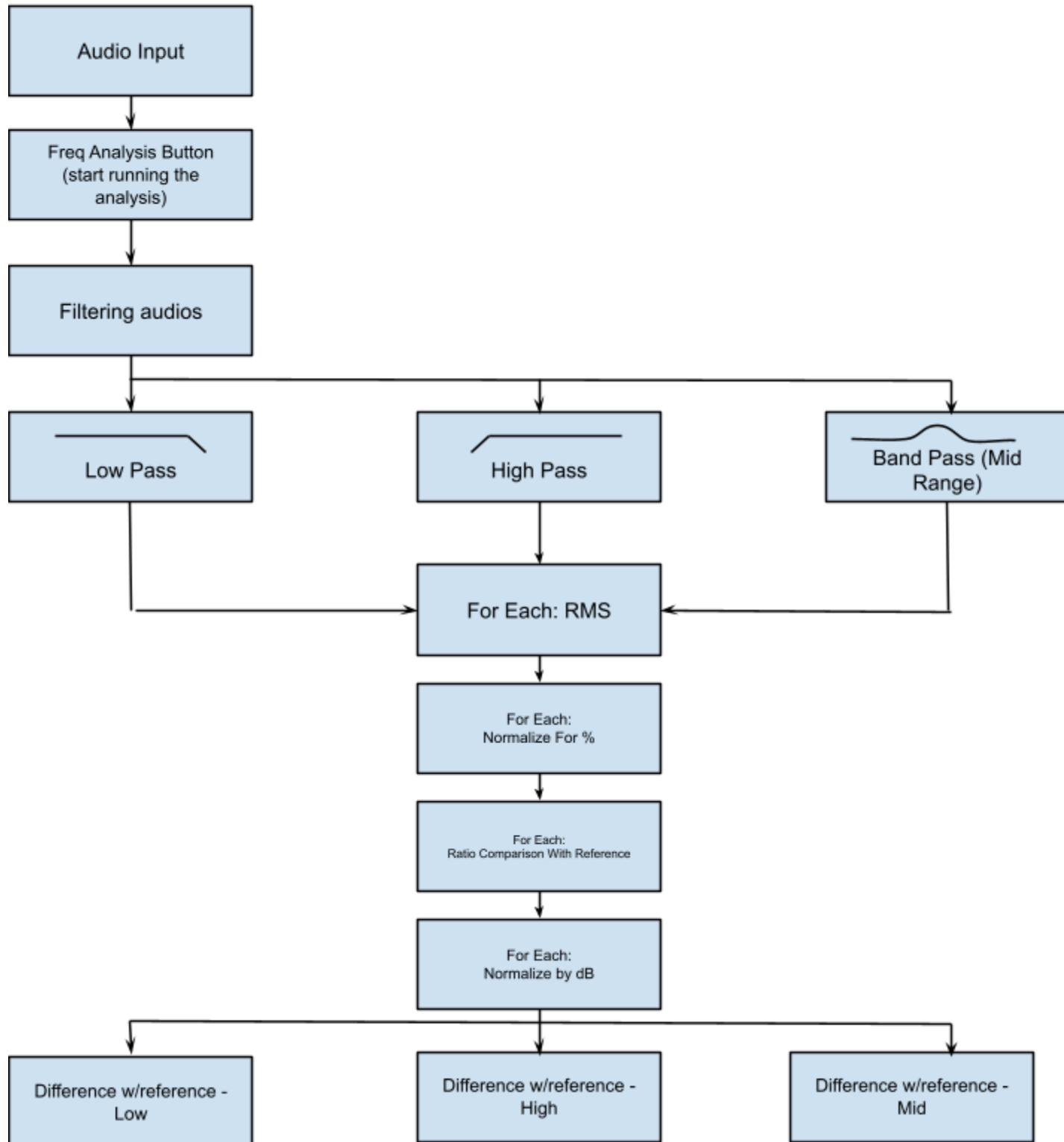


Software architecture diagram



User interface designs

Frequency Balance Analyzer

"Upload your file"
Button

"Analyze my audio"
Button

After analysis



Waveform Display

Boxes Layout: Display three boxes labeled "Low," "Mid," and "High" horizontally across the screen. These boxes will change colors based on the analysis (if $\text{result} < x$ = box is yellow, $\text{result} > x$ = box is red, $\text{result} \approx x$ = box is green)

Box layout:
"Low"

Box layout:
"Mid"

Box layout:
"High"

"Result"

Below the boxes, display a result message that dynamically updates based on the analysis. The message should be clear, such as:

3 possible messages, and can be combined:

"Your [mid/low/high] frequencies need to be amplified by [x] decibels."

"Your [mid/low/high] frequencies are within the acceptable range."

"Your [mid/low/high] frequencies need to be attenuated by [x] decibels."

System workflows

