

CS446 Deliverable 1 - Project Proposal

Project Title: Pitch-Perfectly-Accurately Practice

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(Demo Youtube Video: https://youtu.be/JqUM81U_XtY)

1 Proposed Functionality From D1 and pivot

- ✓ General UI
- ✓ Real time interaction with user's voice
- ✓ Jumping arrows
- ✓ Note Practice Mode
- ✓ Interval Practice Mode
- ✓ Chord Practice Mode (→ Triad Practice Mode)
- ✓ Song Practice Mode
- ... Song Mode Library to select songs (→ A temporary Spinner)
- ✓ Filter Pages (→ per mode setting)
- ✓ Note Summary Analysis
- ✓ Left Menu (→ Navigation Menu)
- ... Double tap to go to next question (→ Temporarily long press help button to go to next question)
- ✓ PlaySound Button behaves according to the mode
- ☐ Pages in “More” Menu
- ☐ Global settings (theme, etc..)
- x Metronome (dropped)
- ✓ Help Popup
- ✓ First Launch tutorial
- ... Summary page (A mock version)
- ✓ Real-time graph (**Pivot**)

1.A Current progress and future plan

- Reasons for functionality in D1 to change/be dropped/not finished
 - The chord mode is simplified to triad mode.
 - * Triad (has 3 notes) is a subset of chord mode (can have more than 3 notes).
 - * Chord mode can be added in the future.
 - * other priorities came first
 - Missing song mode library
 - * Will have in the future, currently using a spinner to select songs
 - Per mode settings and global settings unfinished
 - * Currently only has a note / interval filter
 - * More settings in per mode hasn't been implemented
 - * other priorities came first
 - Missing various Pages in More Menu, songlibrary, Double tap to next question
 - * Reason: other priorities came first
 - Metronome dropped
 - * For song playing mode, a metronome is annoying.
 - * For song practice mode, user sings a note perfectly then next note, a metronome is not needed.
- Functionality planned (extended as ideas become concrete) but not proposed in D1
 - Settings storage (can reload settings after kill and launch).
 - Users can add their own midi and practice song.

2 Demo Summary and Plan

Note Mode → Graph Mode → Interval Mode → Triad Mode → Song Mode → Per Mode Settings

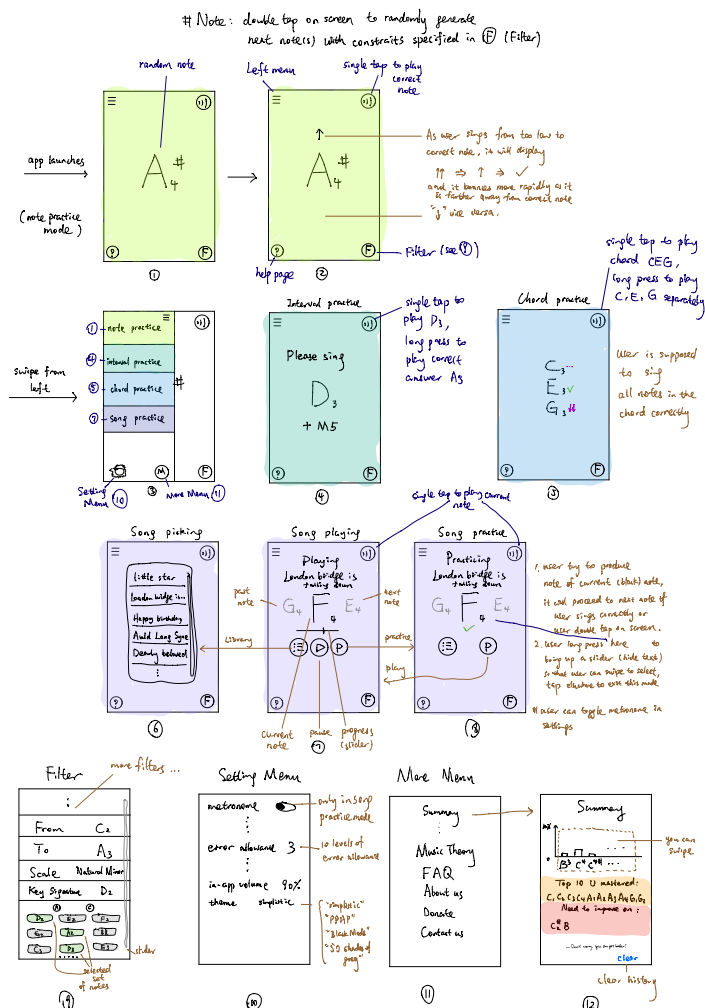


Figure is Wireframe from D1