

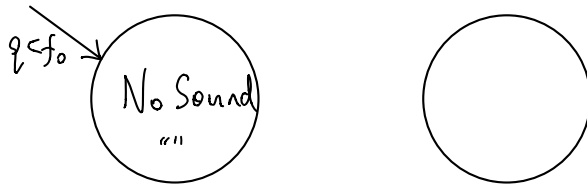
Main Logic (processFreq) state machine diagram:

current frequency : q
expected frequency : a
error allowance rate : ε
error range : $[2^{-\frac{\varepsilon}{12}} a, 2^{\frac{\varepsilon}{12}} a]$
least stable time : Δt
detect sound threshold : f_0

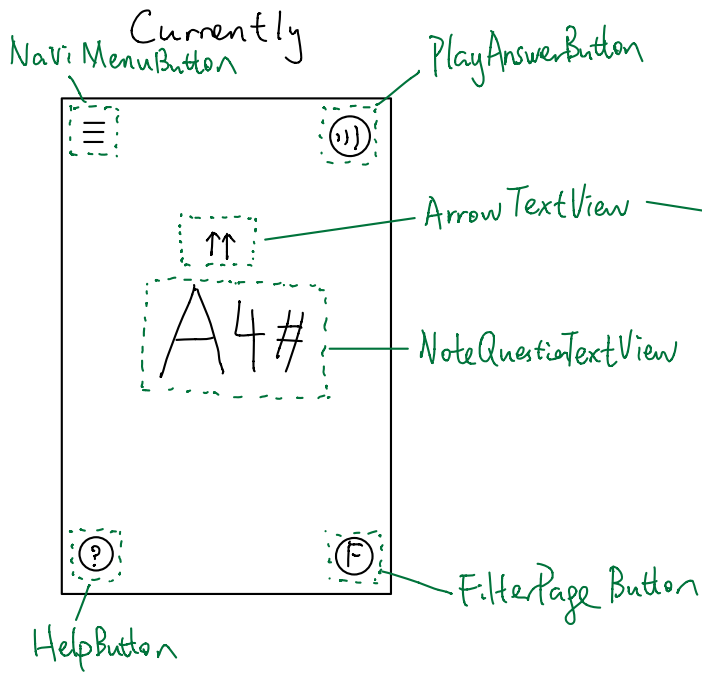
error warning factor : C

second error range : $C * \text{error range}$

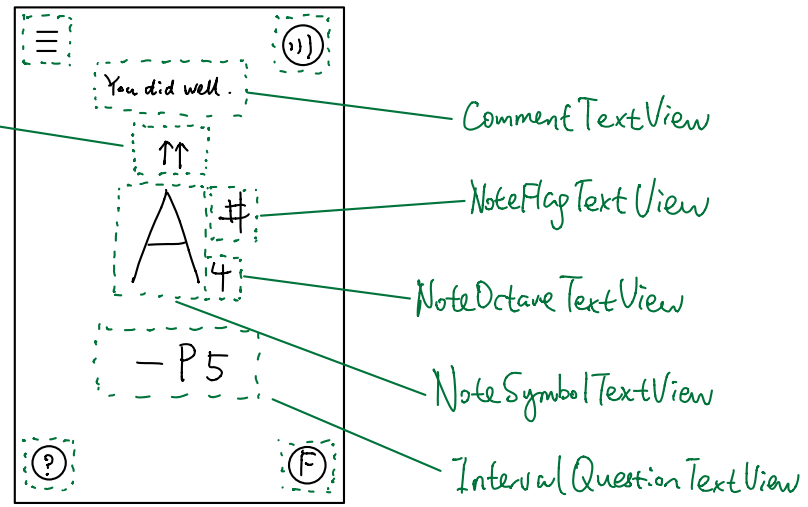
TODO



General Main Screen



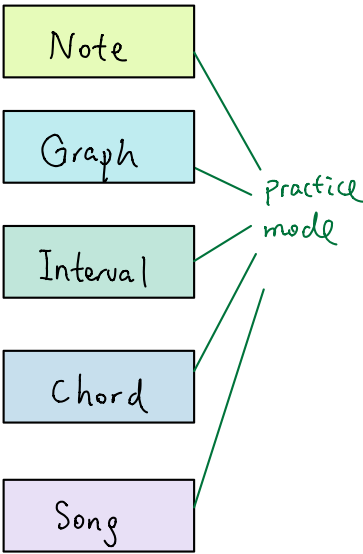
Ideally



Navi Menu

Note	# 4	①①
Graph		
Interval		
Chord		
Song		
		Ⓕ

Summary
(global) setting
More



Note Practice Mode

≡

)))

↑↑
A#
4

?

F

Note Mode Setting Page
(tab 1)

←

• •

From C₂

To A₃

Key Sig D₂

Scale Natural Minor

Ⓐ Ⓒ

D ₂	E ₂	F ₂
G ₂	A ₂	B ₂
C ₃	D ₃	E ₃

urgent colour

(tab 2)

←

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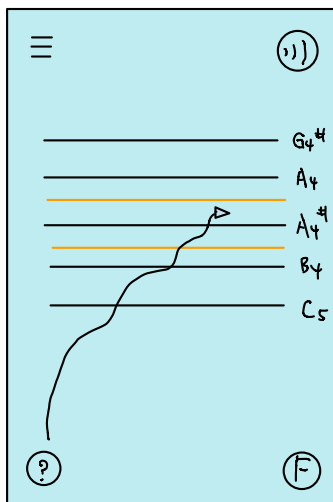
auto playback ☒

error allowance

least stable time

(note)
(ms)

Graph Practice Mode



Graph Mode Setting Page (tab 1)

← ● ●

From C₂
To A₃
Key Sig D₂
Scale Natural Minor
① ③

D ₂	E ₂	F ₂
G ₂	A ₂	B ₂
C ₃	D ₃	E ₃

(tab 2)

← ● ●

auto playback ☒

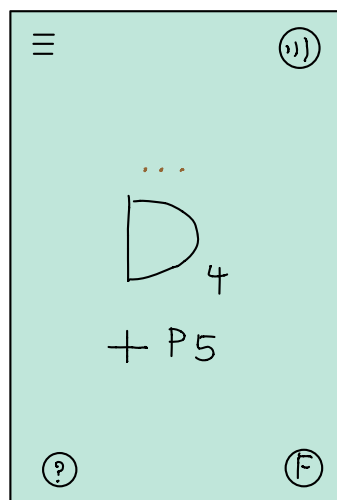
error allowance (note)

least stable time (ms)

refresh rate

show freq/note

Interval Practice Mode



- ①)
- single tap:
play D₄
 - long press:
play D₄, A₄, {D₄, A₄}

Interval/Mode Setting Page

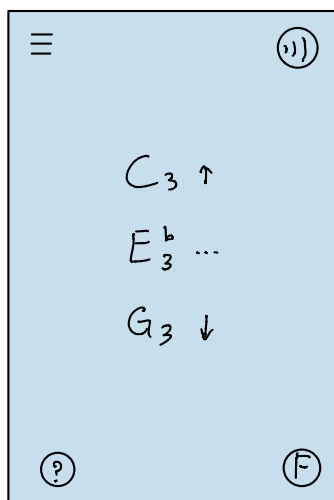
(tab 1)

(tab 2)

(tab 3)

note pool generated by the filters
(candidate notes) above

Triad Practice Mode



①)

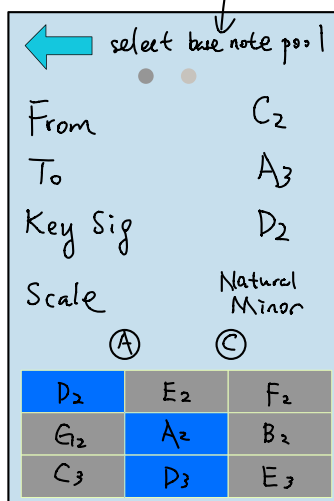
• single tap:
play chord

• long press:
play

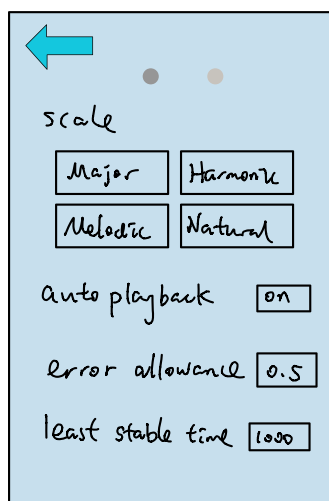
$C_3, E_3^b, G_3, \{C_3 E_3^b G_3\}$

Triad Mode Setting Page

(tab 1) key signature



(tab 2)

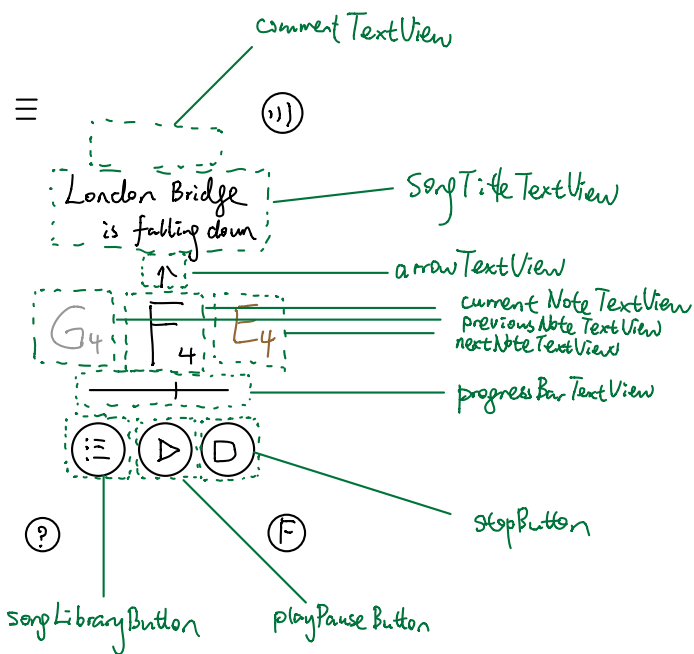
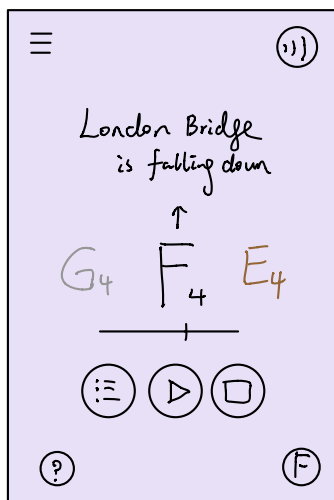
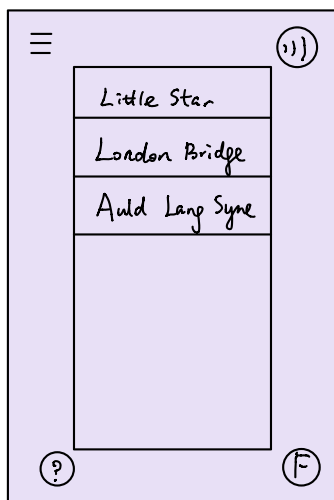


in this case

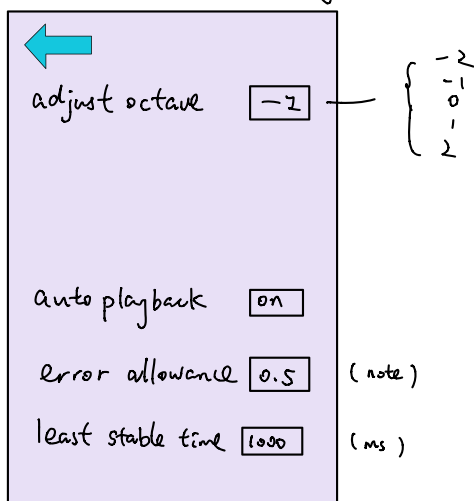
key signature pool will be

$\{D_2, A_2, D_3\}$

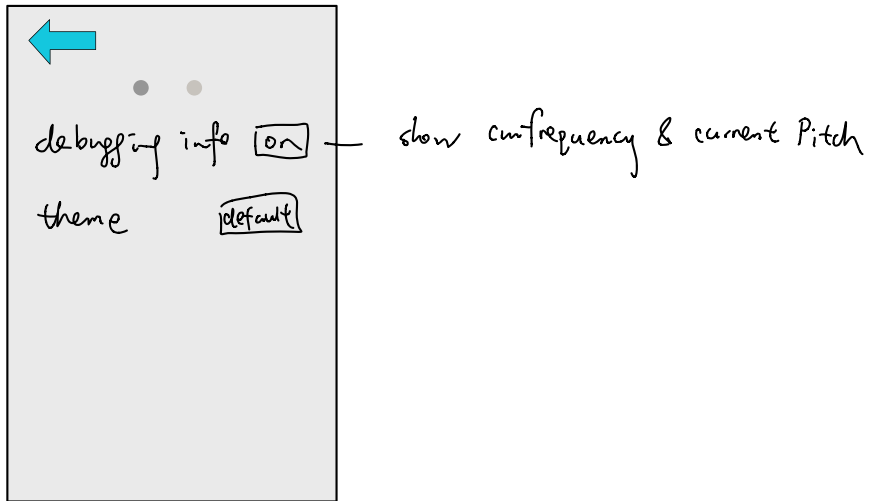
Song Practice Mode



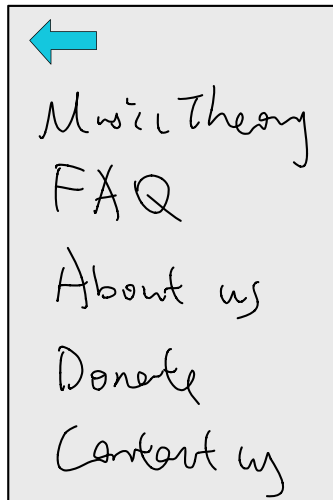
Song Mode Setting Page



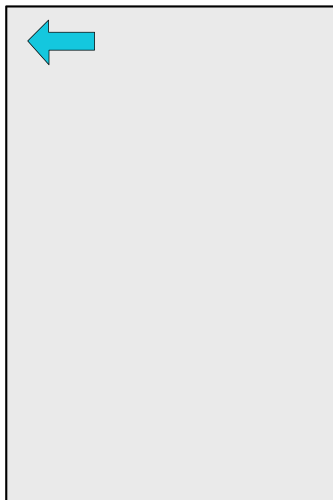
Global Setting Page



More Page



Summary Page



- Graph ?
- Top 10 notes mastered :
- Need to practice notes :