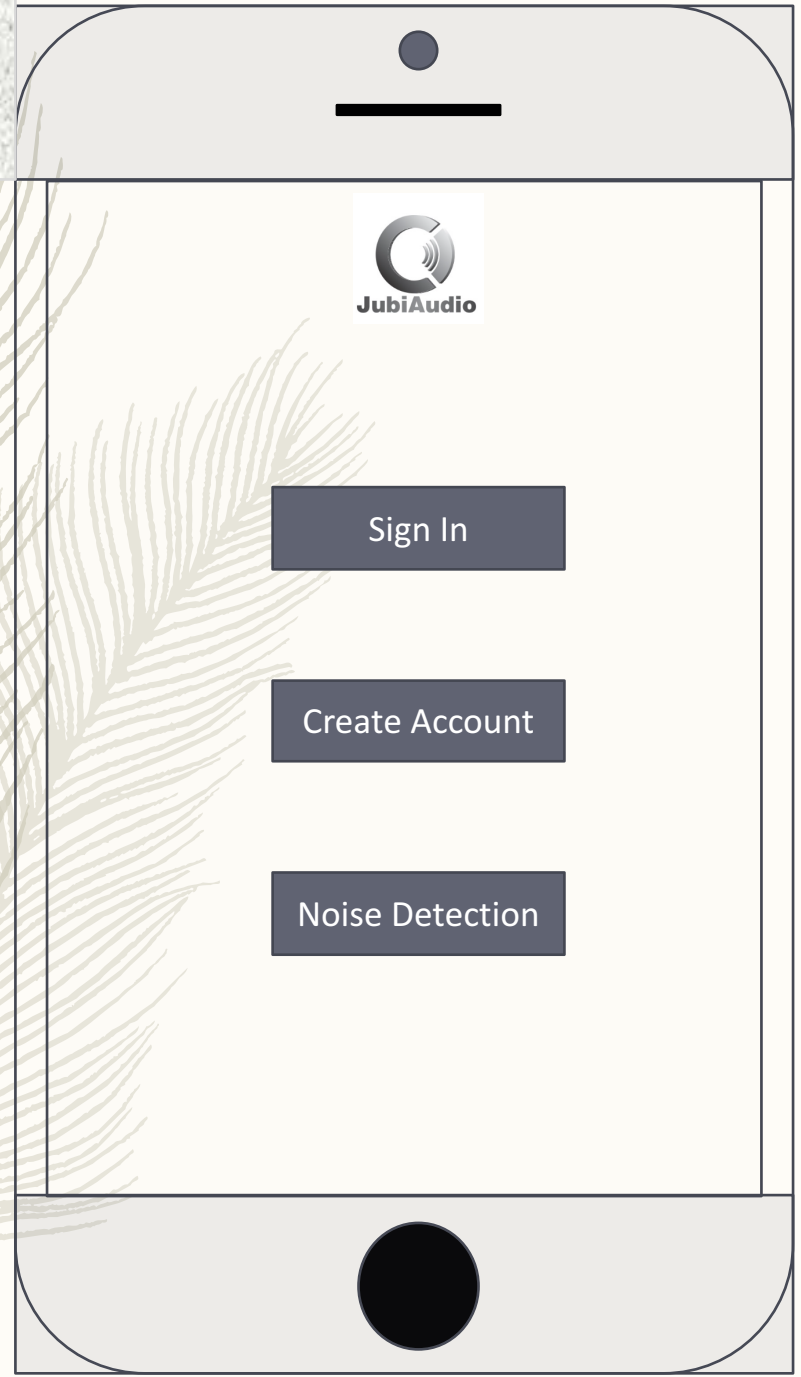
Home
(Wireframe)



This is the initial screen, i.e **home screen (HS)**, when the App is turned on or the [**home**] button is pressed.

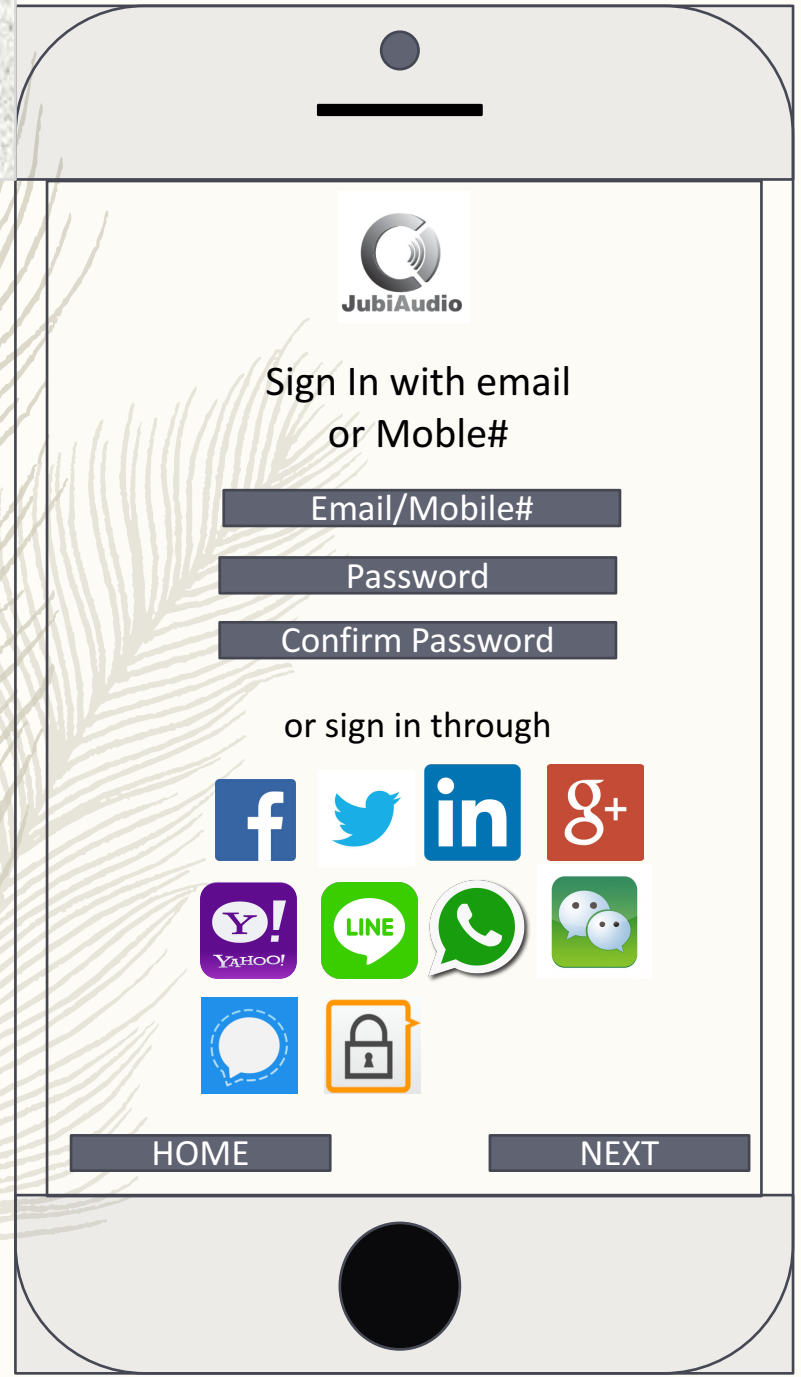
[**Sign In**] button navigates to Wafeframe[Sign-in]
[**Create Account**] button navigates to Wafeframe[Create Account]

Note: User accounts should be kept in the devise and in the cloud.

[**Noise Detection**] jumps to Wireframe[Noise Detection]

Note 1: You could choose the screen orientation to be either portrait or landscape
Note 2: You may use any artworks
Note 3: The screen layouts are reference only

Sign-in
(Wireframe)



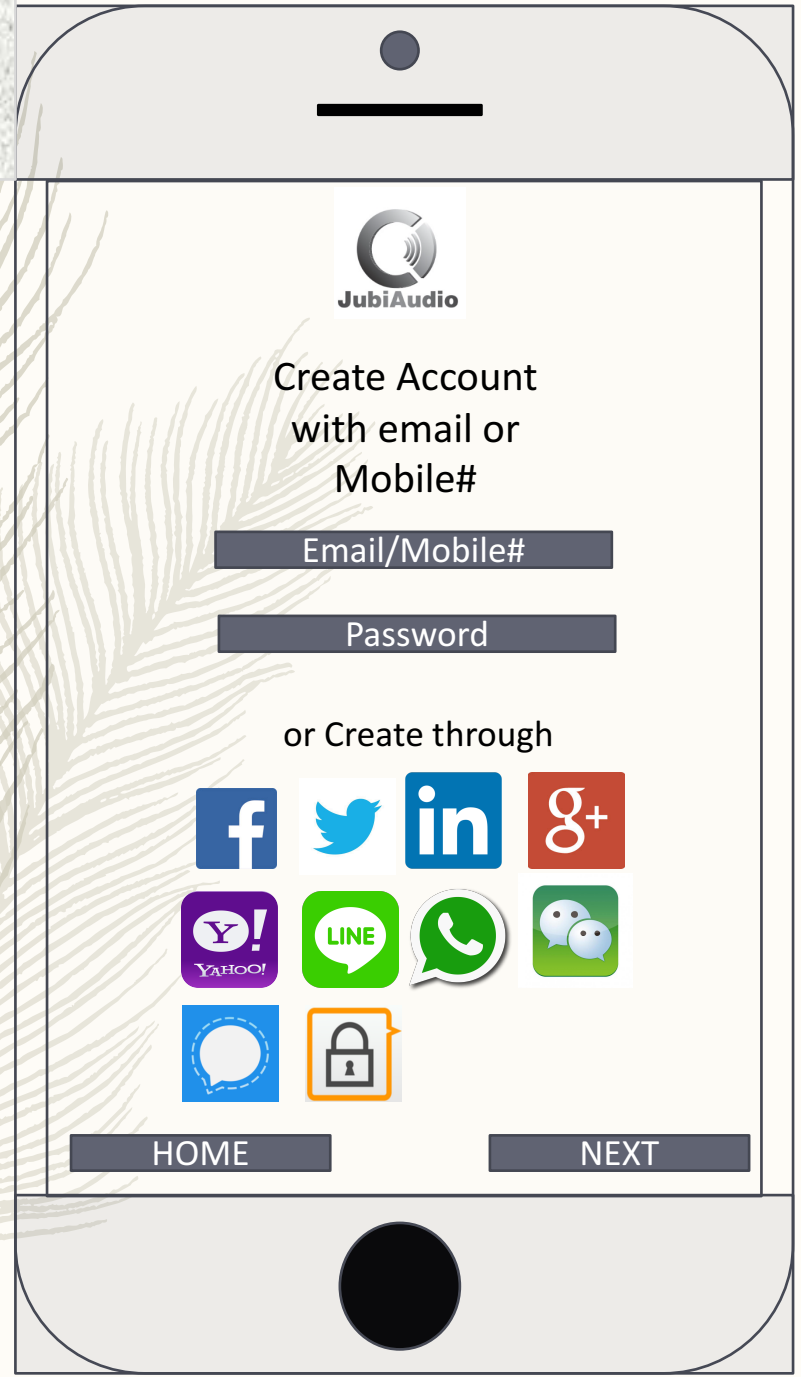
An User can either sign in using (A) Email/Mobile# OR (B)a social media login

After (A) or (B) is completed User presses [**NEXT**]
If the Account is verified it goes to Wireframe[Noise Detection] otherwise, it display a message asking to re-sign-in. (Account Locking might be needed after 3 attempts?)

(B) is **optional**

Press [**HOME**] cancel the current task and navigates back to HS

Create Account
(Wireframe)



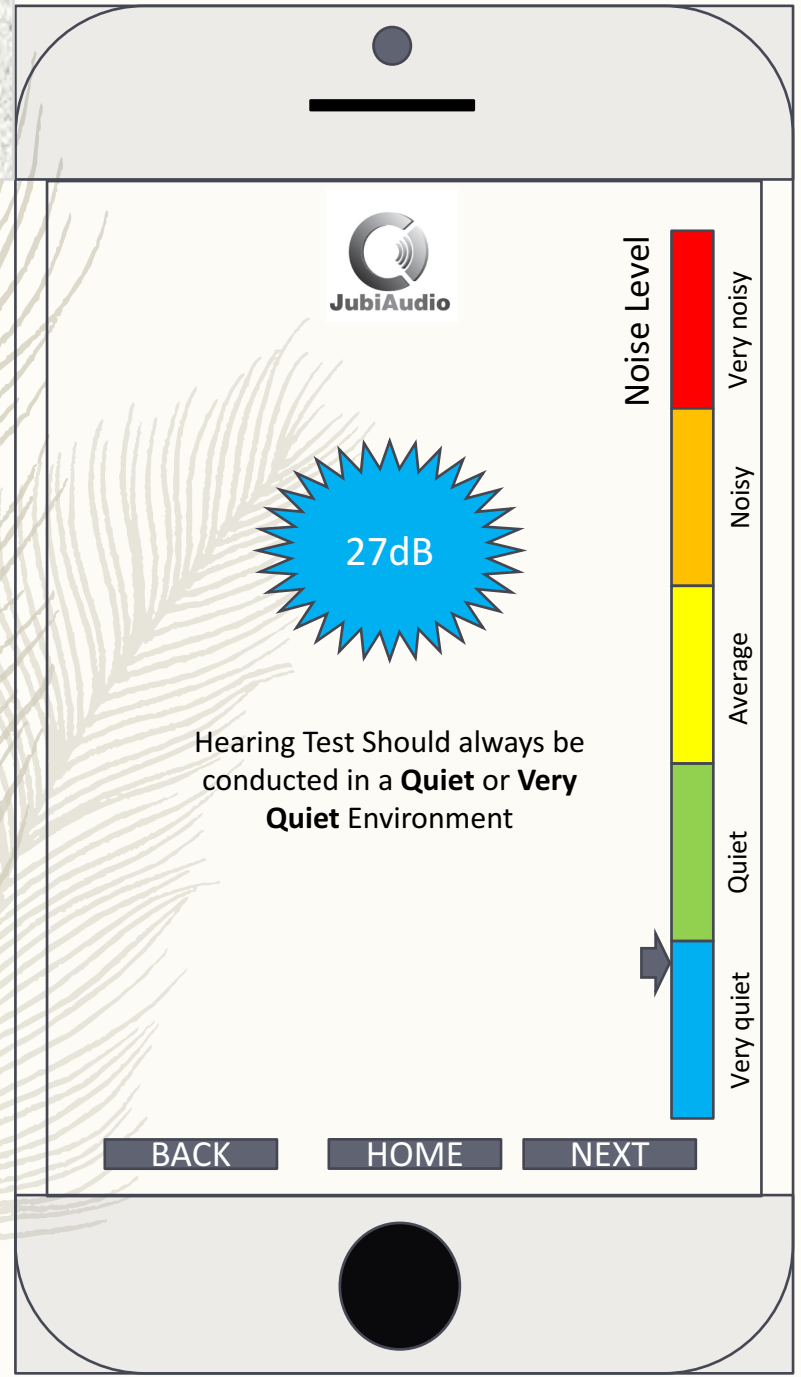
An User can either crate an account using (A) Email/Mobile# OR (B) a social media login

After (A) or (B) is completed User presses [**NEXT**] and it goes to Wireframe[Noise Detection]

(B) is **optional**

Press [**HOME**] cancel the current task and navigates back to HS

Noise Detection (Wireframe)



The microphone(s) will start to pick up the surrounding noise and display the noise in dB in 2 places:
(1) in the center with proper color and
(2) (**optional**) move the pointer along the Noise Level Bar in the correct color region and scale. The colors of the noise level do have meanings, therefore, it is preferred to use a color system close to this wireframe.

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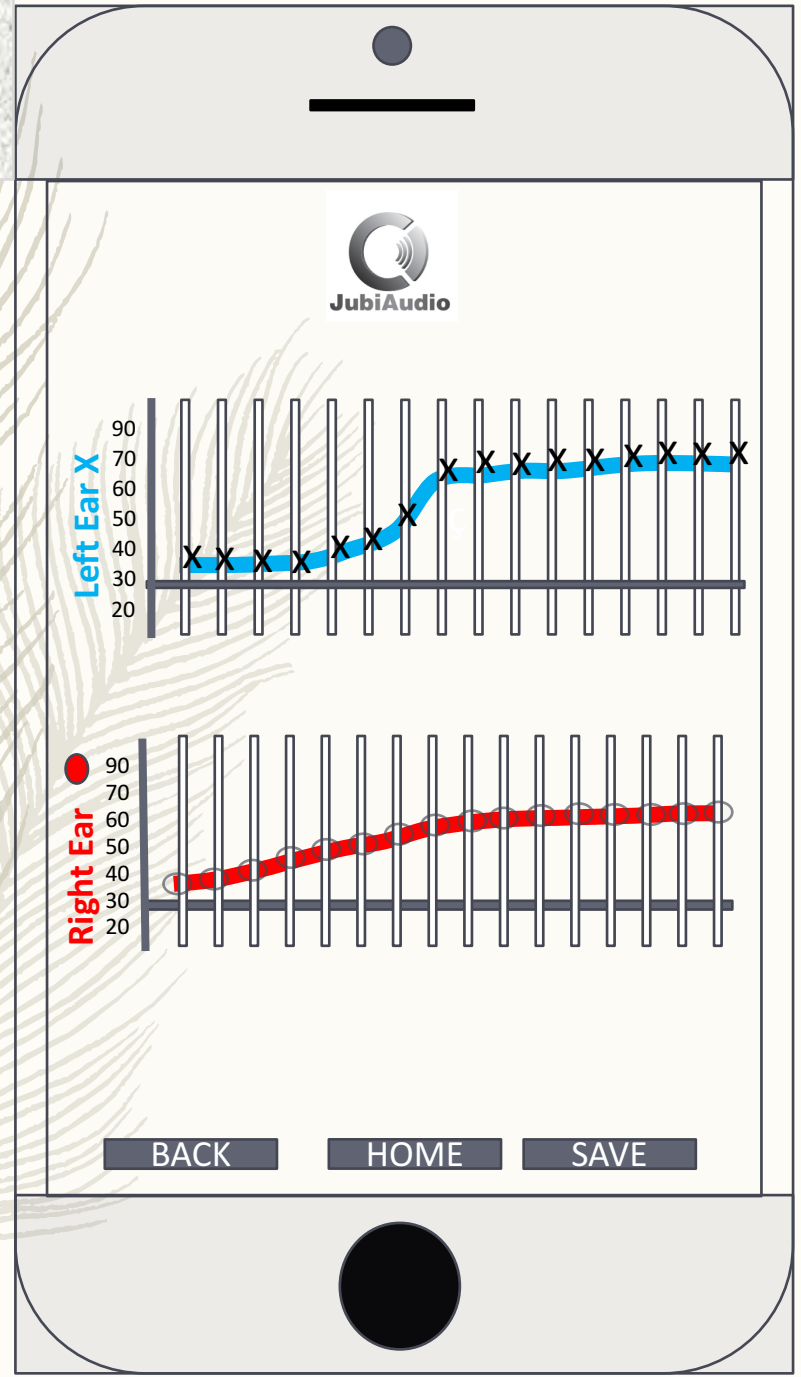
Note: iPhone, by default, returns a value of 0 dB indicates full scale, or maximum power; a return value of -160 dB indicates minimum power (that is, near silence). see: https://developer.apple.com/reference/avfoundation/avaudiorecorder/1387176-averagepower

However, following the common practice, we advise to set the 50 dB when the noise level is detected in a quite room. The dB scale then can be calculated using logarithmic scale.

[**BACK**] goes back to the previous screen
[**HOME**] goes to **HS**
[**NEXT**] goes to Wireframe[**Equlizer]**

Equalizer
(Wireframe)



The microphone(s) will start to pick up the sound and display multiple (>= 12) frequency bands for the left and right ears/microphones.

The knobs of the frequency bands shall be placed at the horizontal bar initially.

Adjust the knobs shall increase or decrease the volume of a particular frequency.

(Optional) The BLUE and RED curves are plotted when the knobs are adjusted to enhance visual effect

[**BACK**] goes back to the previous screen
[**HOME**] goes to **HS**
[**SAVE**] saves the current knob settings into a user's profile database; display a WARNING message: "Equalizer setting can only be saved when an User has log into his/her account.. Please press HOME button to login your account or create an account"