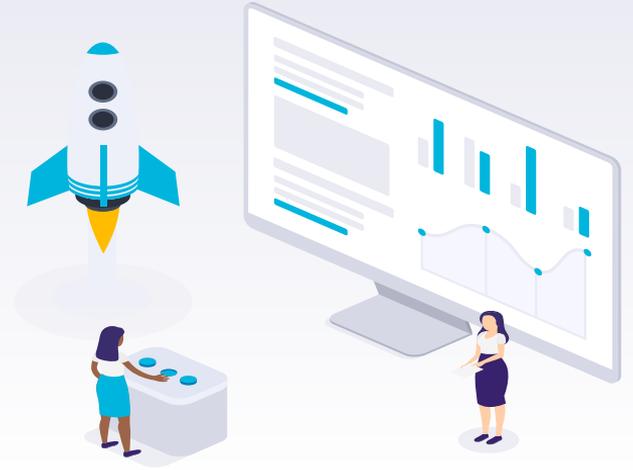




# SLEEPMATE

Low-fi prototyping and user-testing



Studio: Caring From Within

Derek Chung, Aaron Han, Tristan Wang, Michelle Xu



Design ideas

Prototype

User testing



# Value Proposition

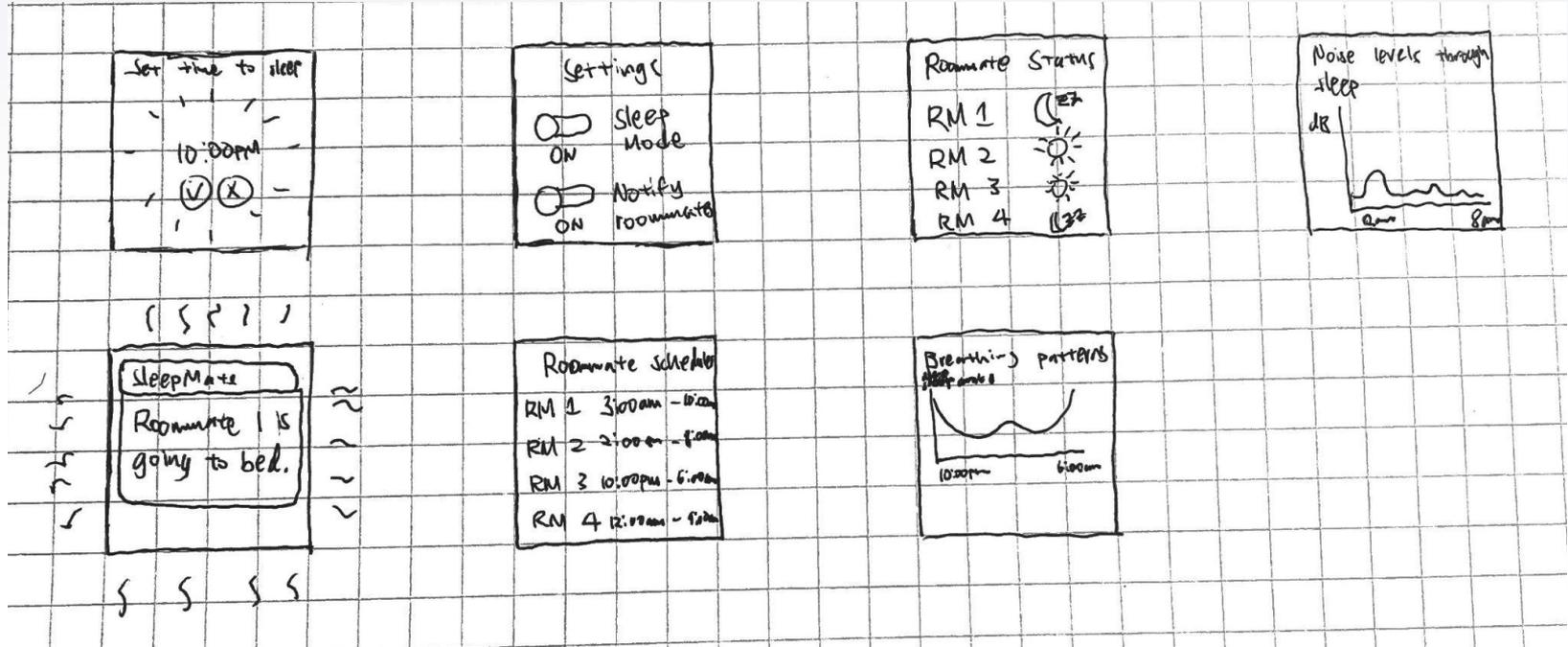
Sleeping Easy, Made Easy.



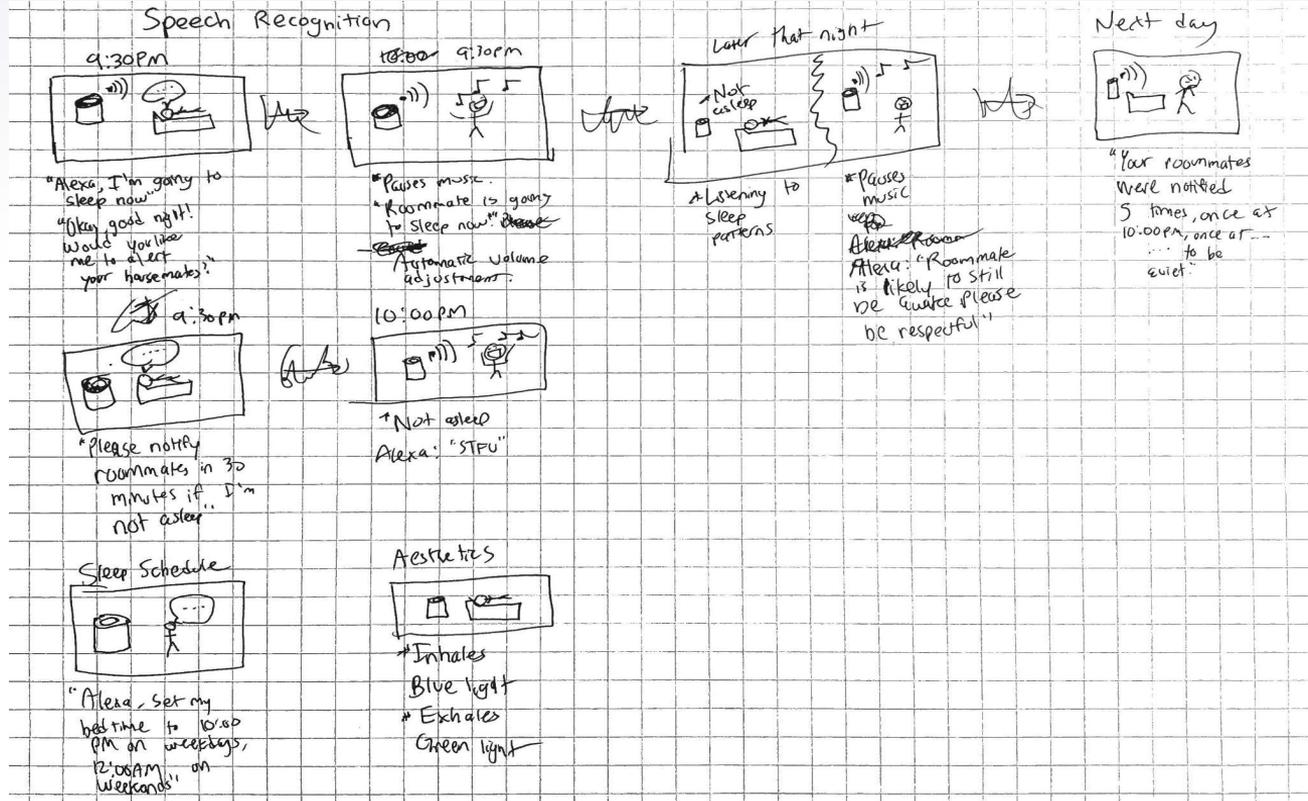
# Design ideas



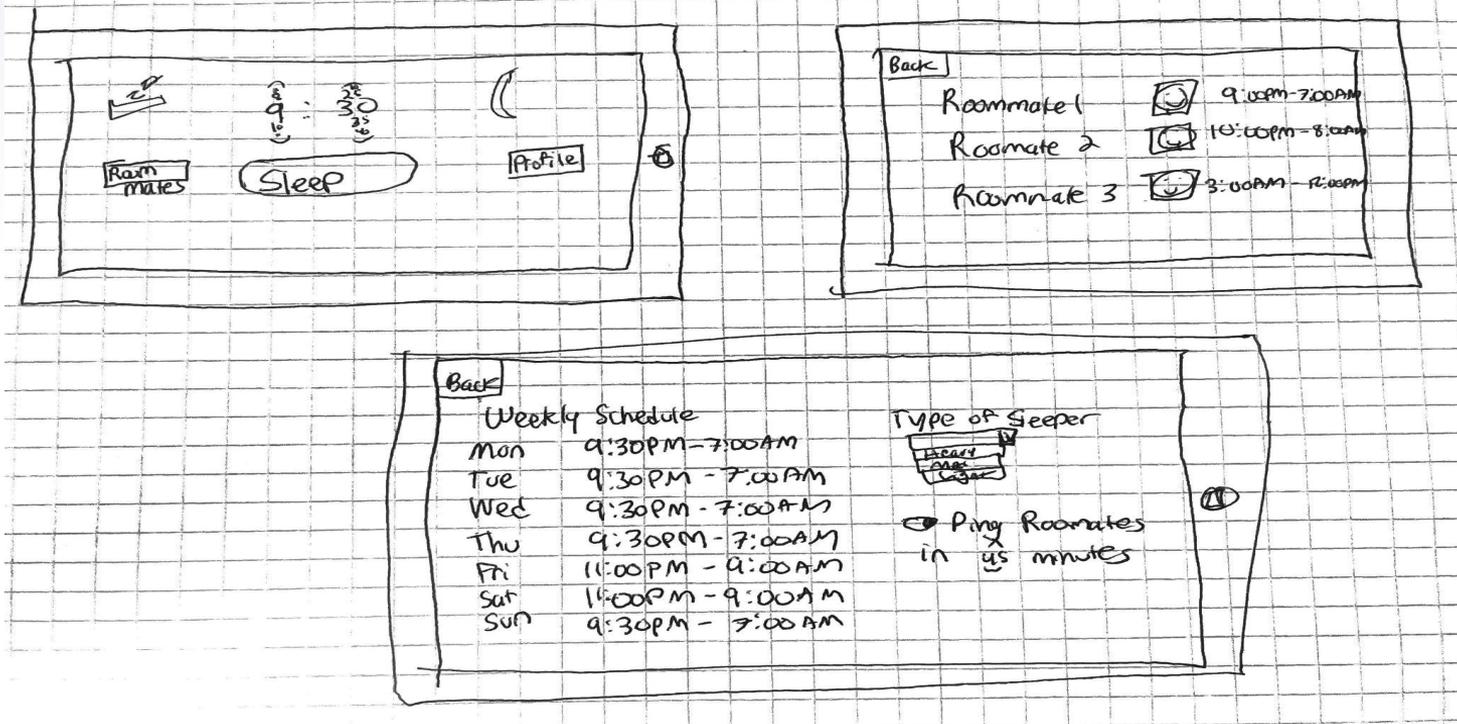
# Wearable



# Smart-home Device



# Tablet

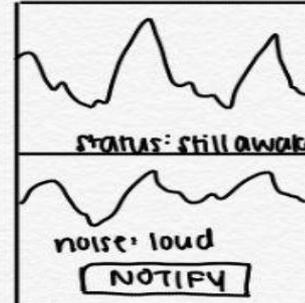
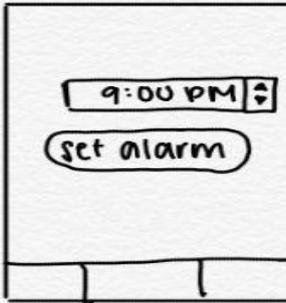
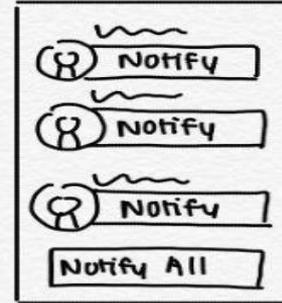


# Text-based Mobile App



# Sleep-tracking Mobile App

mobile app



# Interface Selection

Wearable

Smart Home  
Device

Text-based

Sleep-tracking  
mobile

Tablet



# Interface Selection

Wearable

Smart Home  
Device

Text-based

Noise-tracking  
mobile

Tablet





# Text-based: Pros vs. Cons



Memory-efficient

Customizable

Intuitive



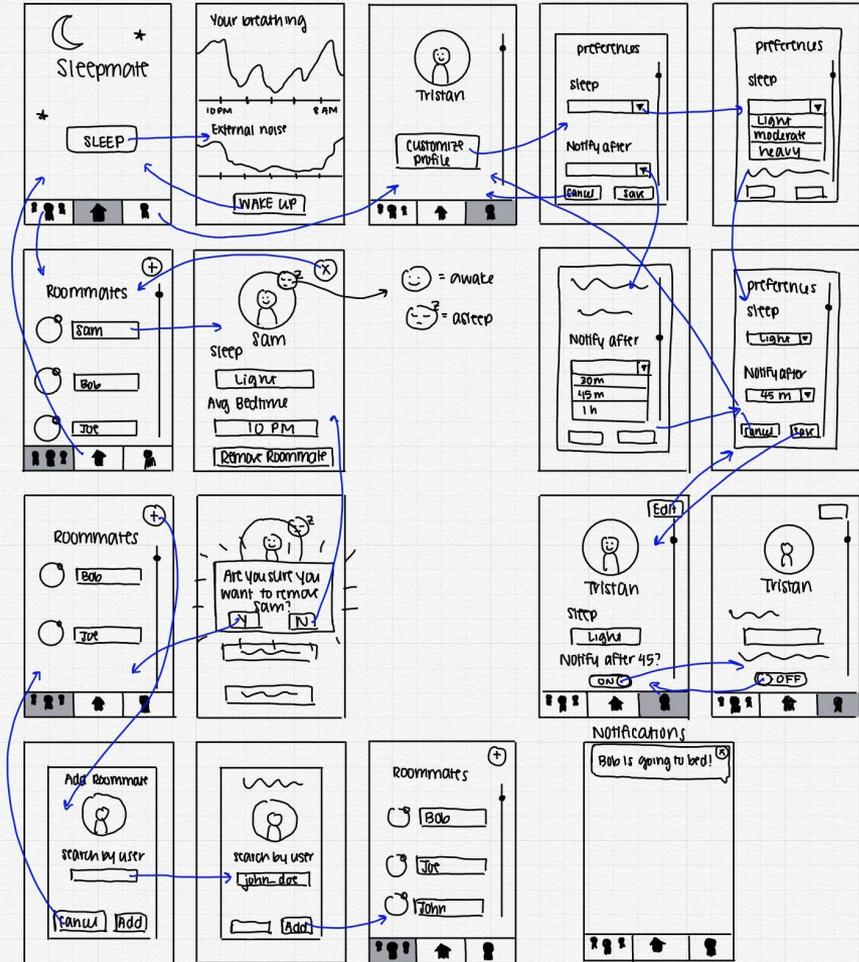
Unaesthetic

Incoherent

Difficult to operate

# Sleep-tracking Mobile Storyboard

mobile app storyboard  
9/6



# Sleep-tracking Mobile: Pros vs. Cons



Visually appealing

Functional

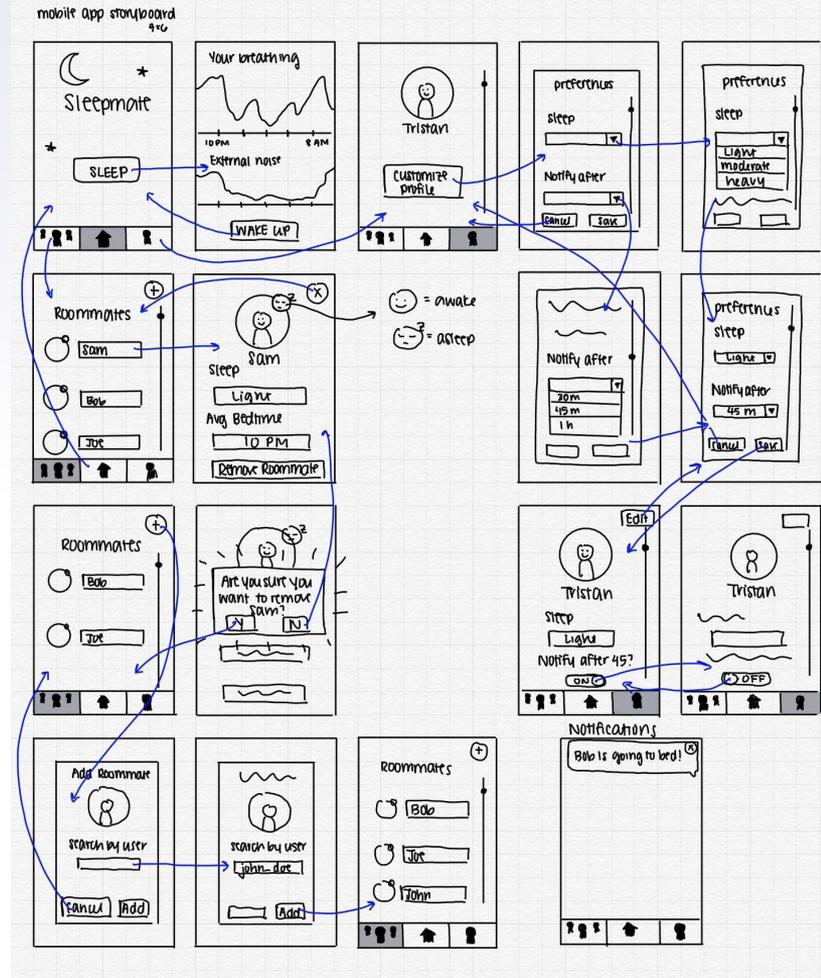
Easy to use



Inaccurate

Easily forget "waking up"

# Selected storyboard: Noise-tracking Mobile App Storyboard

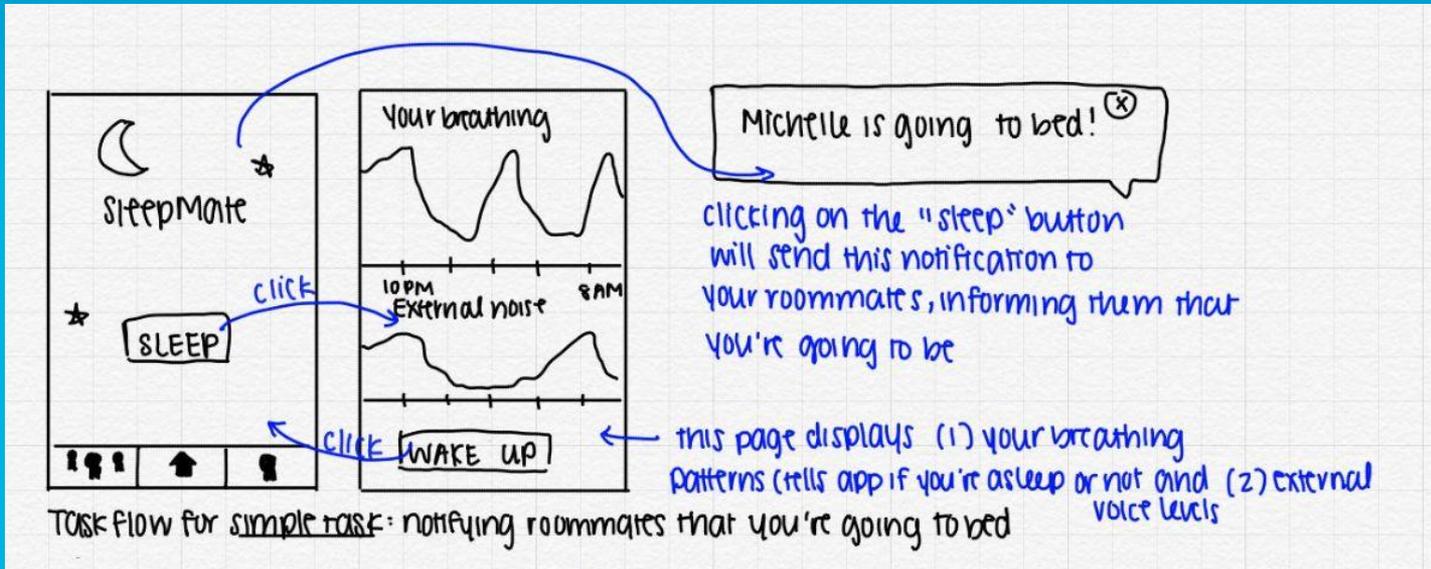




Prototype

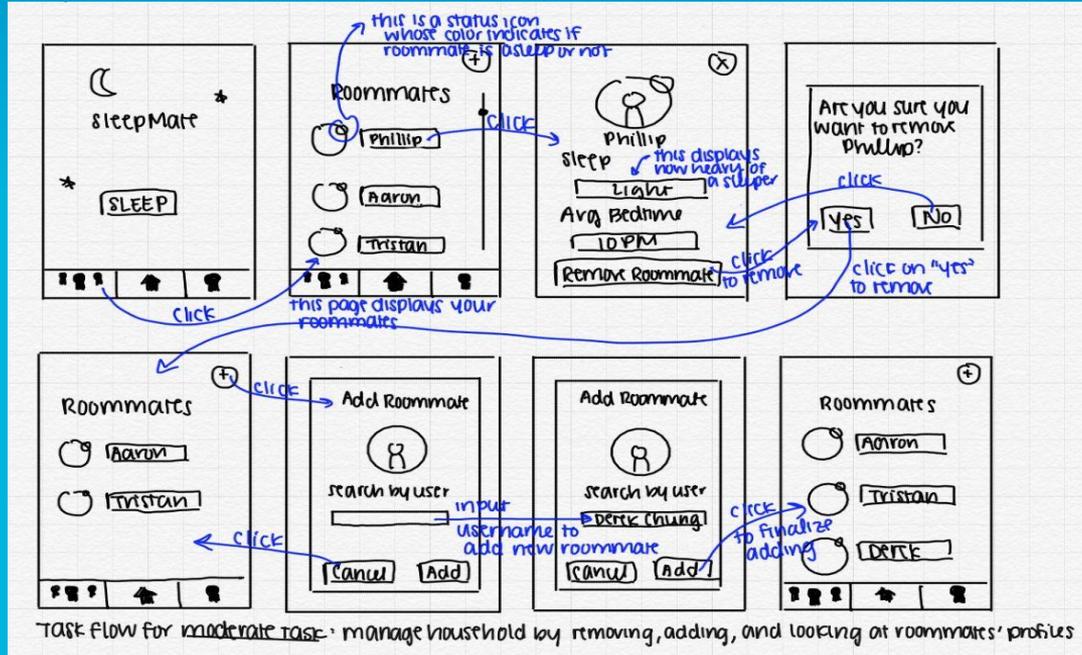
# Simple Task

Notify your roommates you're going to bed through the app



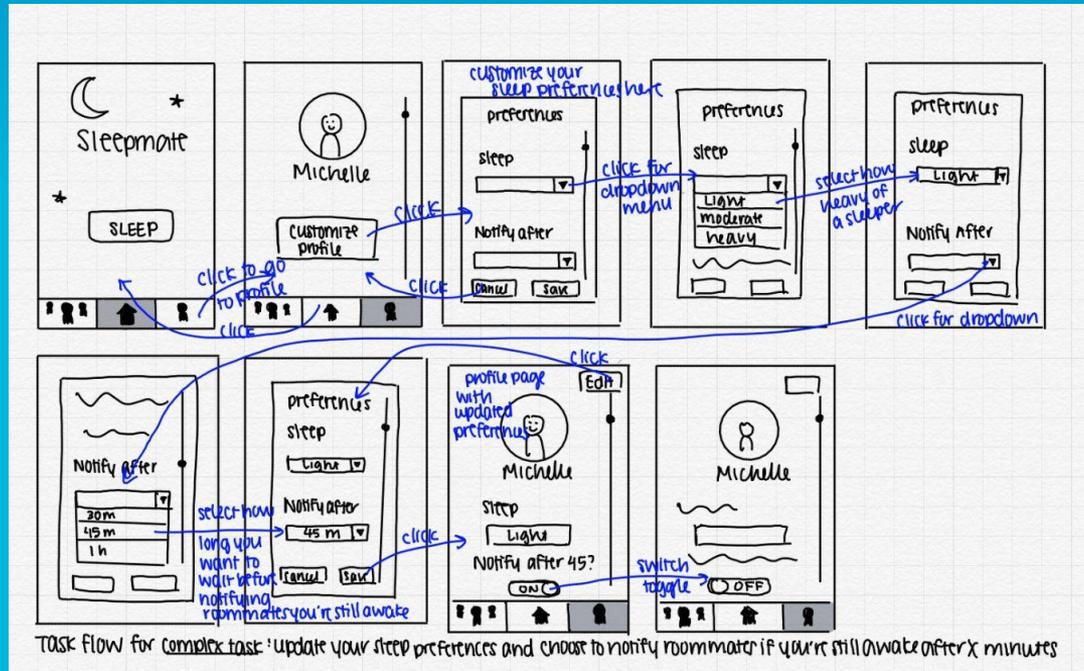
# Moderate Task

Modify your household by adding or removing roommates



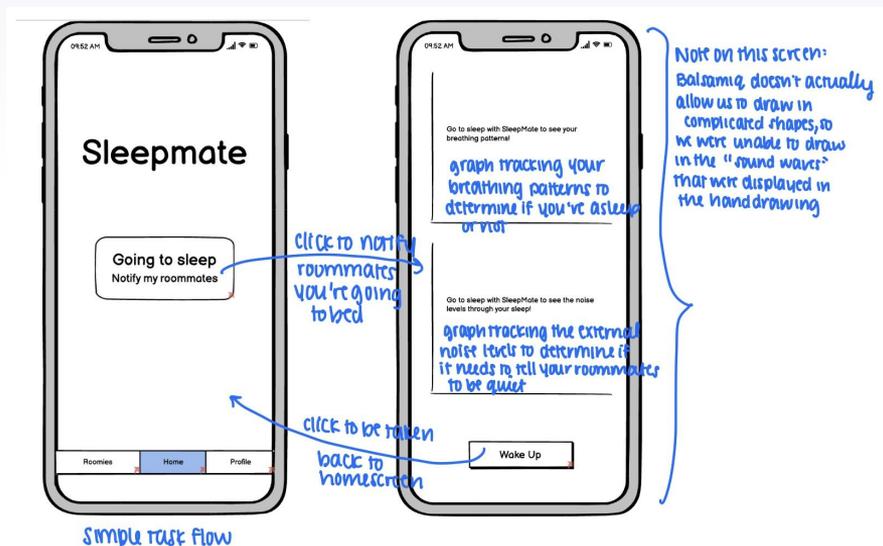
# Complex Task

Update your sleeping preferences and notification settings for your roommate





# Balsamiq task-flows



# Balsamiq task-flows



MIDSTATE TASK-FLOW





# User testing

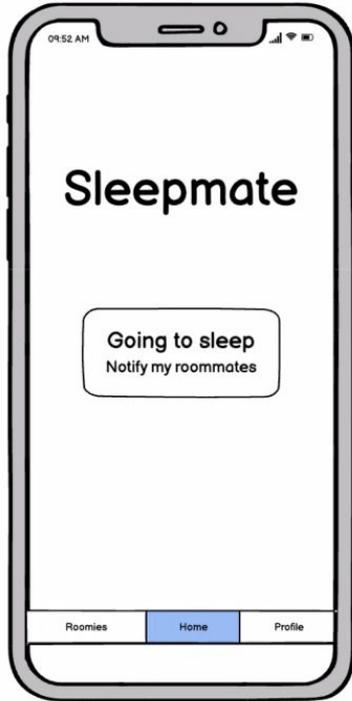


# ▶ We tested with...

**Lauren**, a pre-med student living in downtown LA with 4 roommates

**Elvis**, an engineer in Taiwan who lives with 2 roommates

**Nathan**, a graduate student at UIUC with 3 roommates



## Positive Results



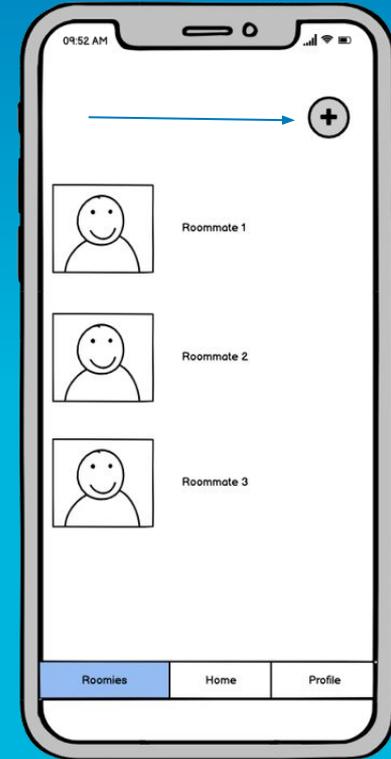
The idea behind notifying roommates to be quiet was positively received

All participants succeeded in adding and removing roommates without critical incidents

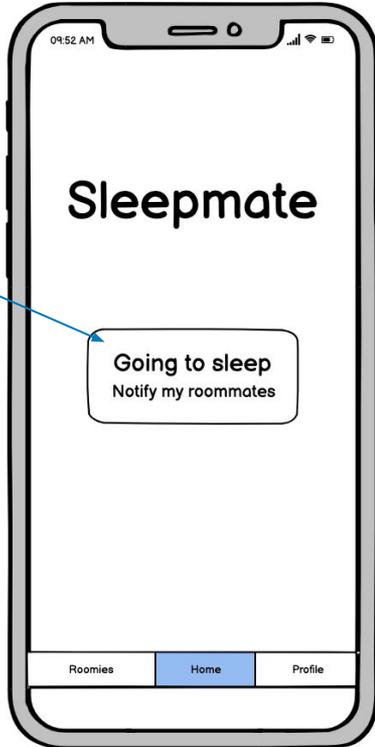
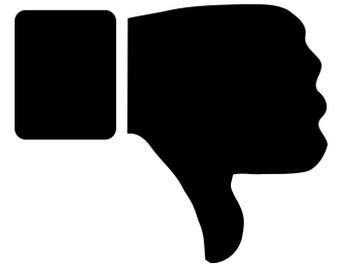
All participants succeeded in customizing their sleep profiles without any error



The plus sign on the Roomies tab was easy to recognize

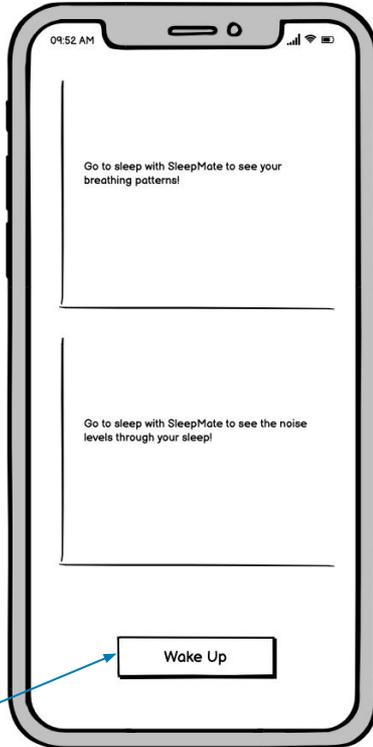
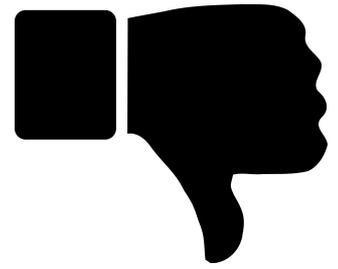


# Negative Results



Two participants **failed to click on the “go to sleep” button** to notify roommates on their first try

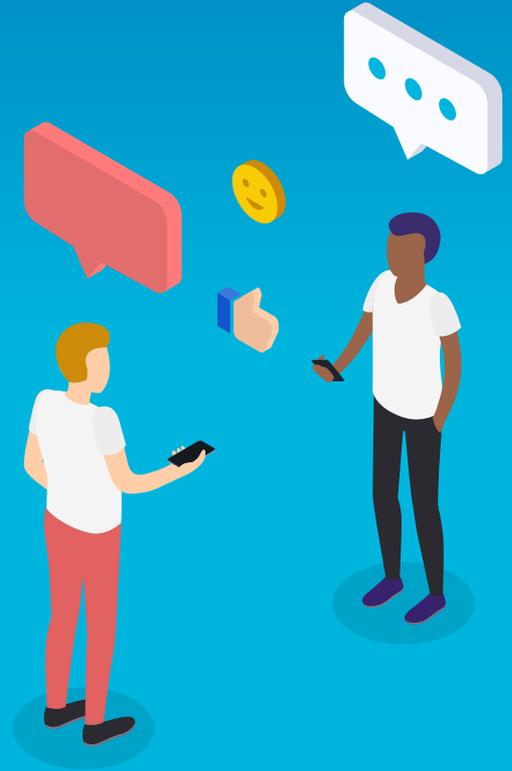
# Negative Results



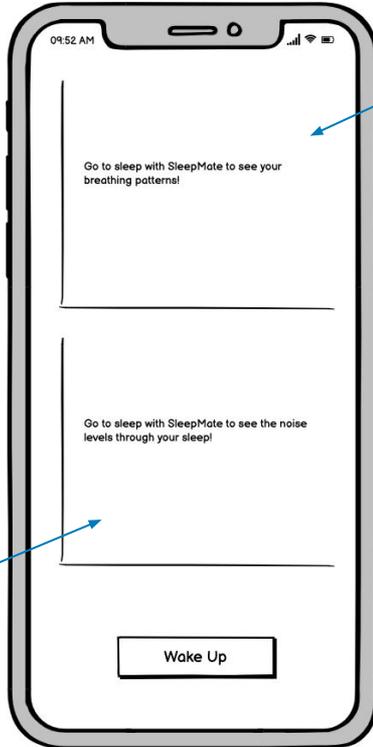
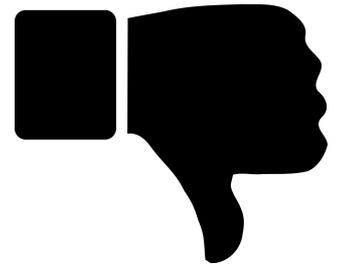
All three participants were **confused on how to go back to the home screen** from the sleep monitoring screen



A little confusing to me,  
maybe if it had “click on  
this tutorial to see how to  
navigate this app”

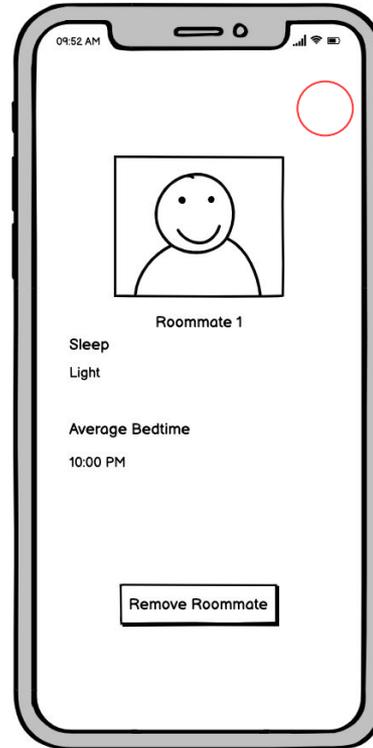
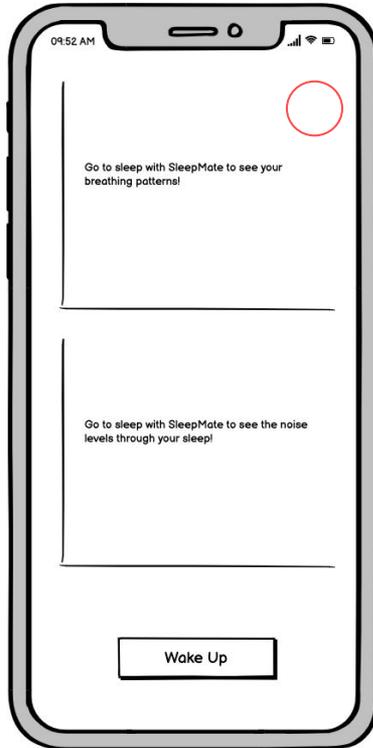


# Negative Results

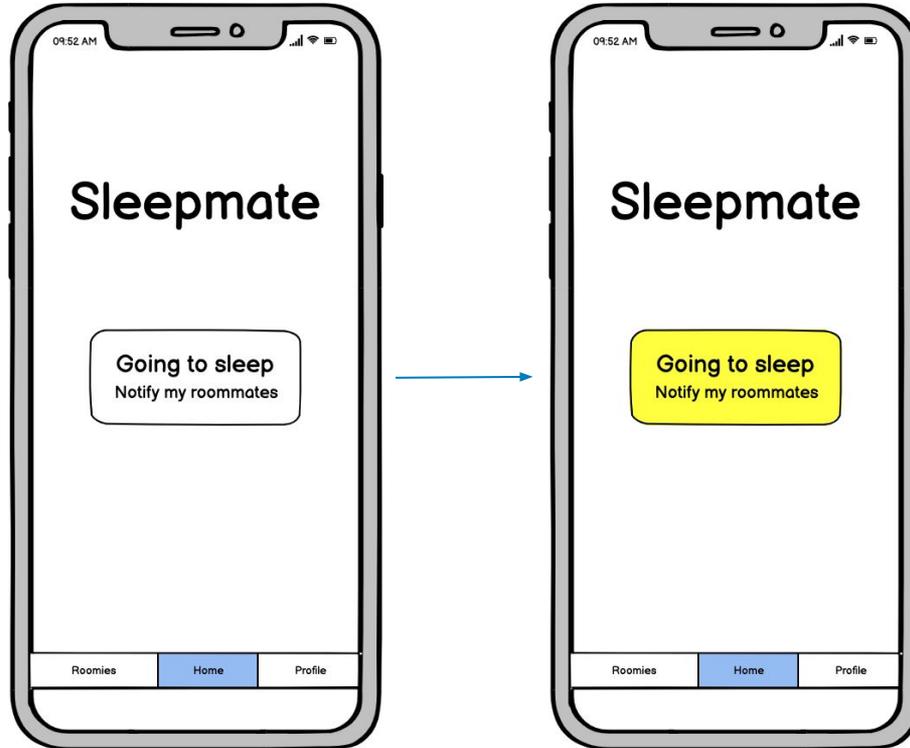


All three participants **glossed over the “sleep tracking”** portion of the app

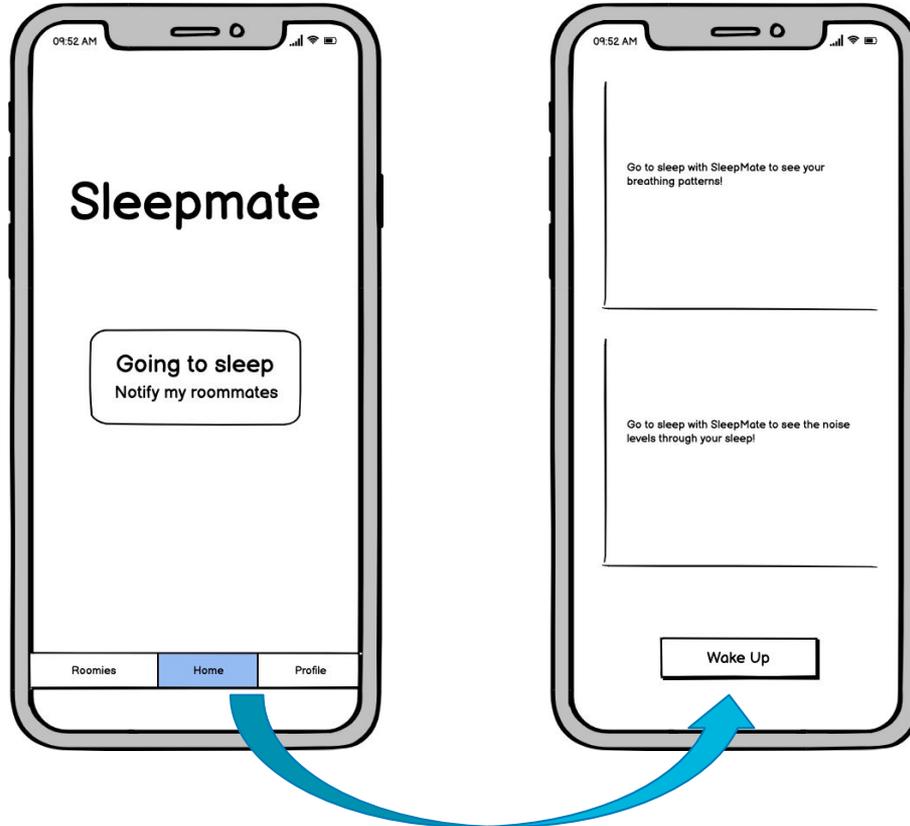
# UI change 1: add back button



# UI change 2: make “go to sleep” button clearer



# UI change 3: add menu bar to sleep monitoring screen



# Summary

## Keep Doing

Intuitive task-flows

Work on this idea!

## To-Do

Friendlier navigation

Add attention-grabbing features to core elements

Consider onboarding