

AQUEOUS

Your Water Drinking Expert



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Rick Huang: Web Developer
Maggie Liu: Documentation
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Overall Problem

- 60% of human body is water
- People should drink eight 8-ounce glasses of water each day (8 × 8 rule)
- People often forget to drink enough water
- Up to 75% of Americans suffer from chronic dehydration

Contextual Inquiry

- People do not want to be interrupted or distracted
- Most people do not have a liquid intake plan
- People often reach for soda, coffee, or other beverages when they feel thirsty



Contextual Inquiry

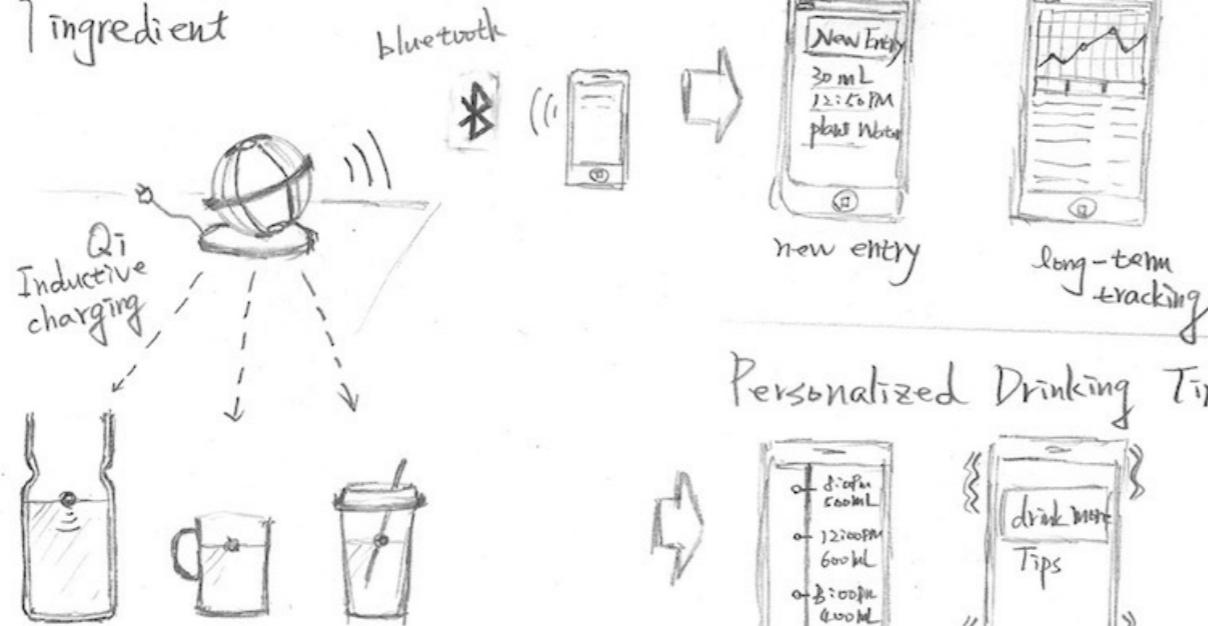
- People do not know how much water they have drunk
- People need different amounts of water based on their activities
- People do not know the symptoms of dehydration



Initial Tasks

- 
- A decorative background image featuring a central white circle filled with a translucent blue liquid, surrounded by numerous small, colorful water droplets and larger, swirling blue and white ripples.
1. Tracking liquid intake over time (*Easy*)
 2. Education on hydration (*Easy*)
 3. Convenient reminders to drink water (*Medium*)
 4. Smart beverage suggestions (*Medium*)
 5. Finding motivation for drinking water(*Hard*)
 6. Accurate dehydration detection (*Hard*)

Sensor Ball
detect
water level
ingredient



Tracking Liquid Intake

✓ Tracking (Automatically Recording)

Education on Hydration

Personalized Drinking Timetable { Education ✓
Reminder ✓

Convenient Reminders

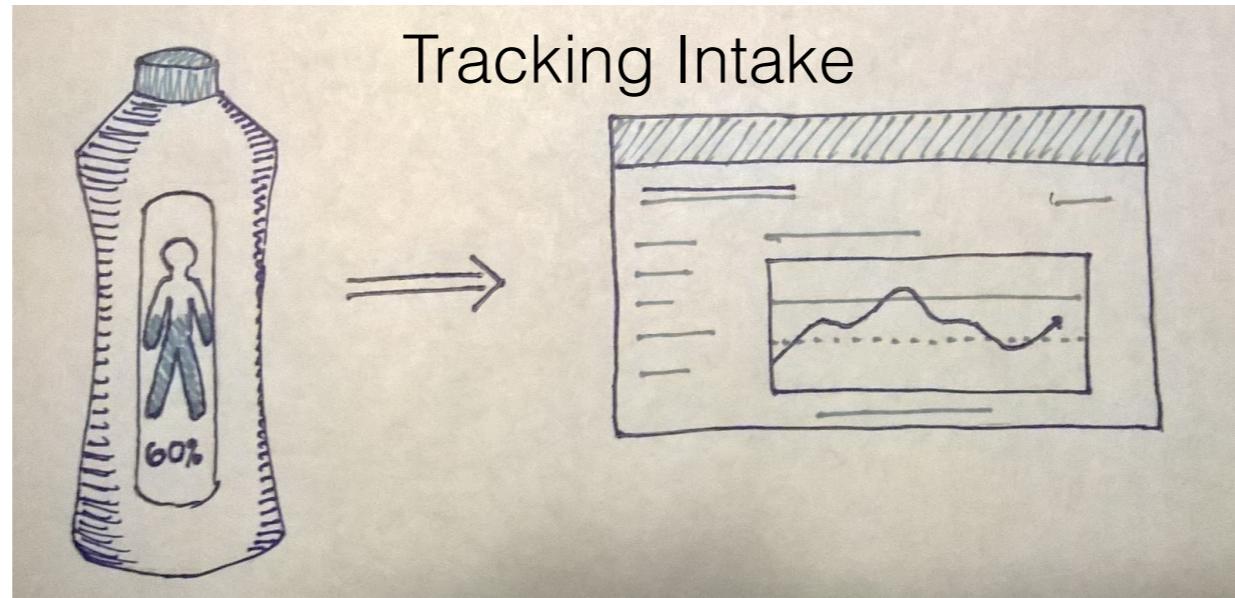
✓ Suggestions

detect ingredients
& give suggestions

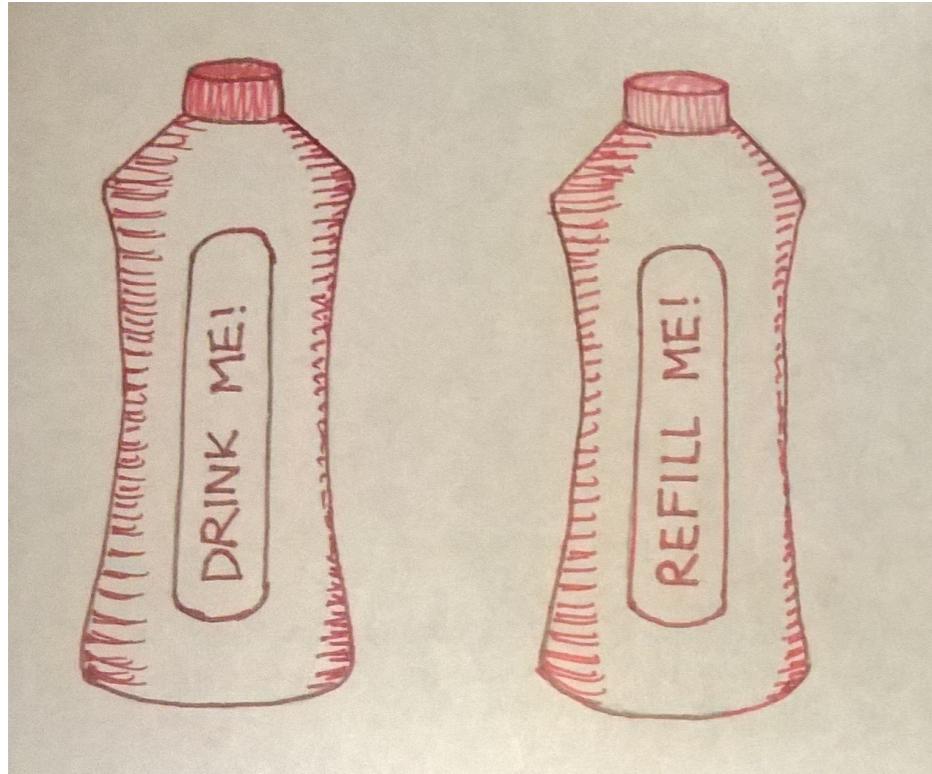
Smart Beverage Suggestions

Design 1

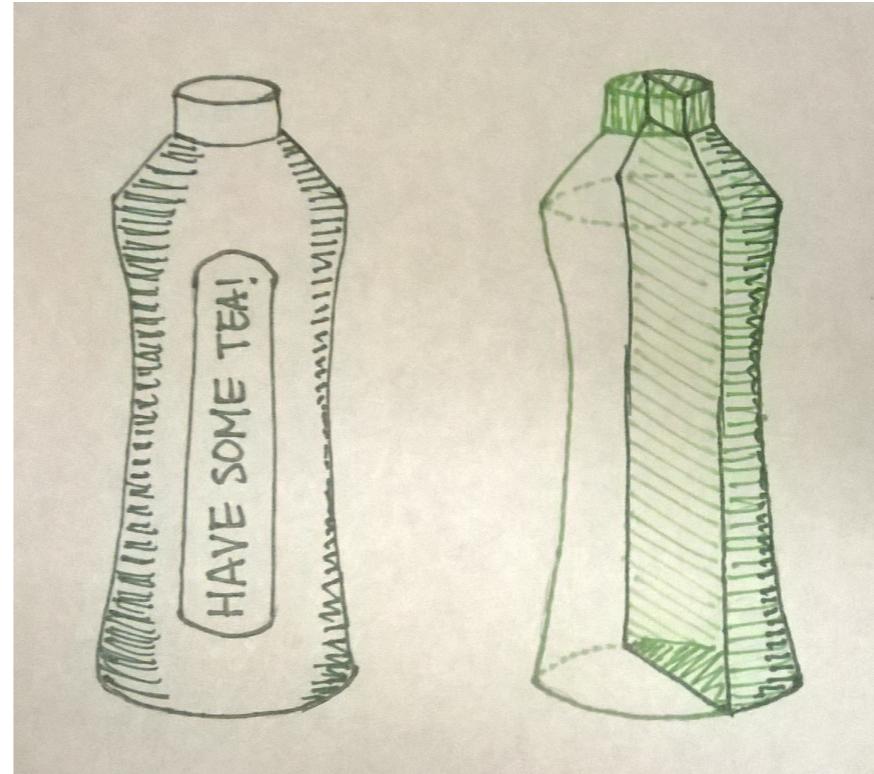
Sensor Ball with Mobile App



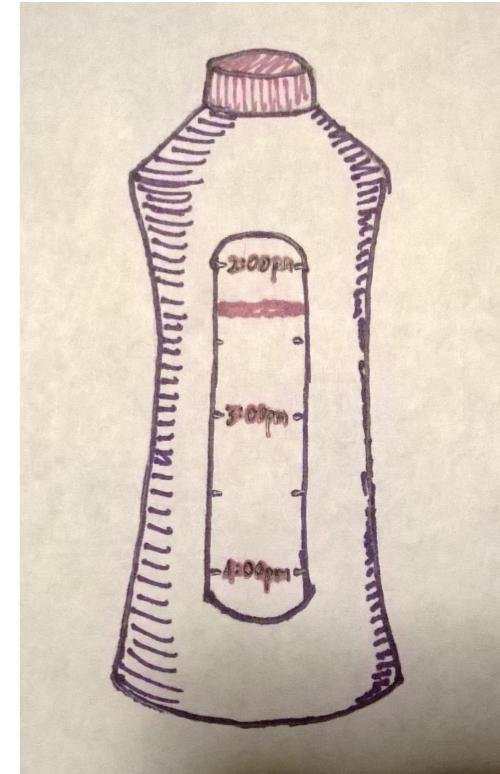
Convenient Reminders



Smart Suggestions

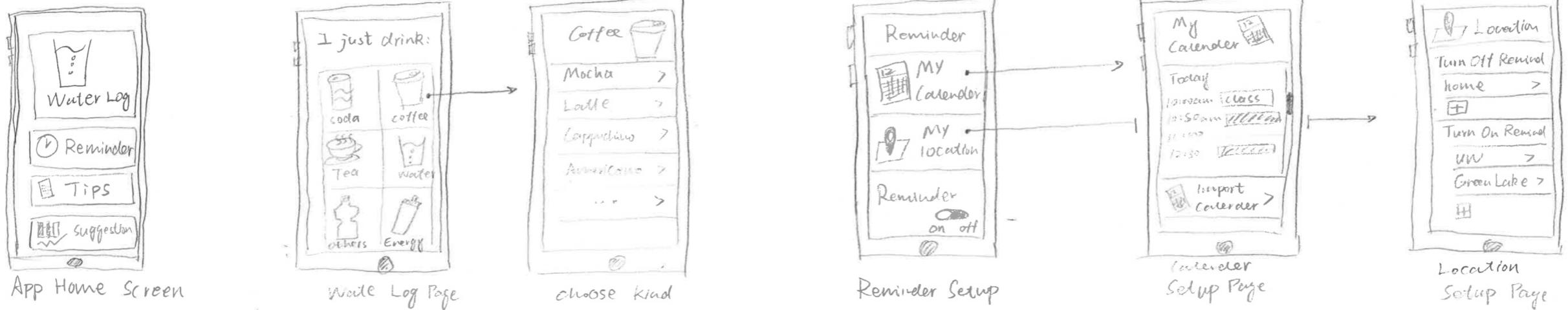


Motivation



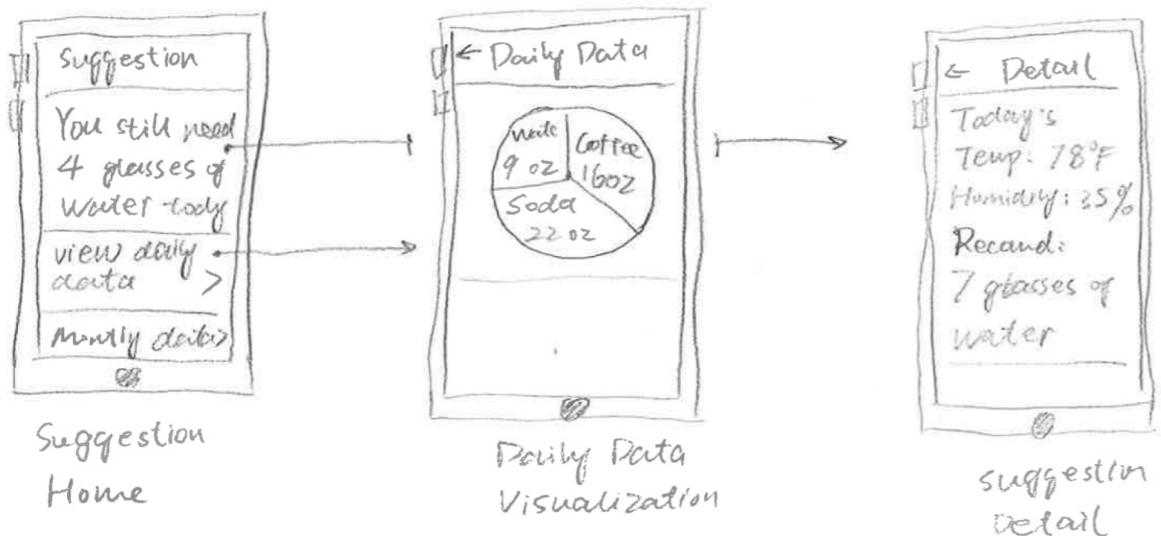
Design 2

Smart Water Bottle with Display

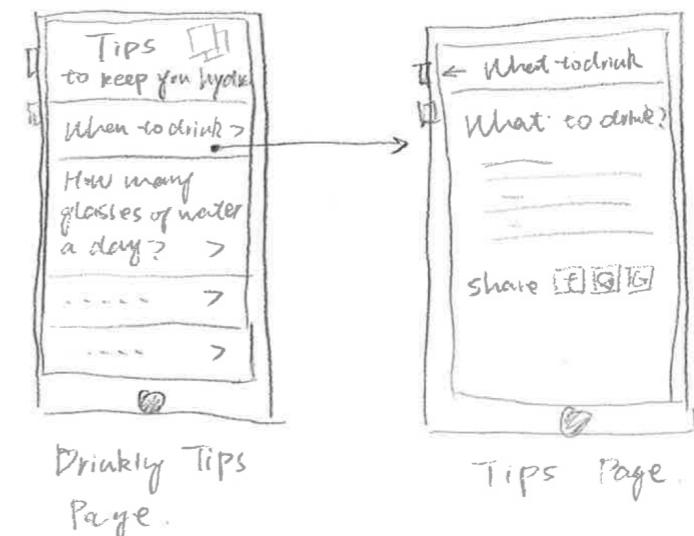


Tracking Liquid Intake

Smart Reminder Setup



Tips for Water Intake

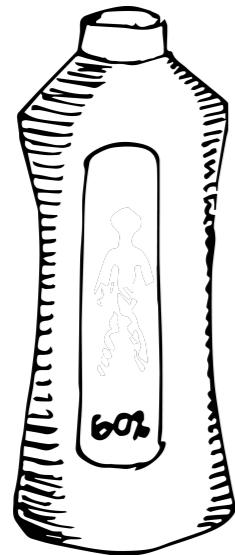


Daily Suggestions

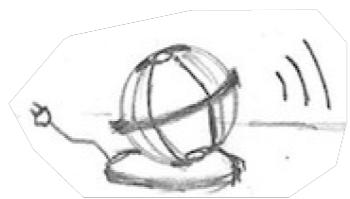
Design 3

Smartphone Application

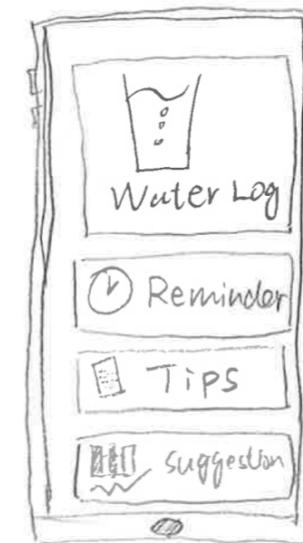
Selected Design and Tasks



Bottle with display
and Built-in Sensor

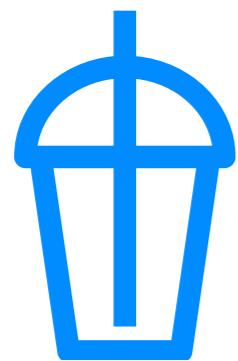


+



Mobile App

=



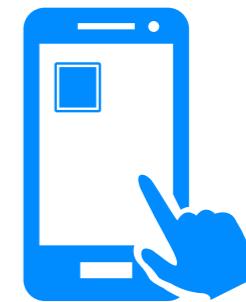
Easy to Track



Data
Visualization



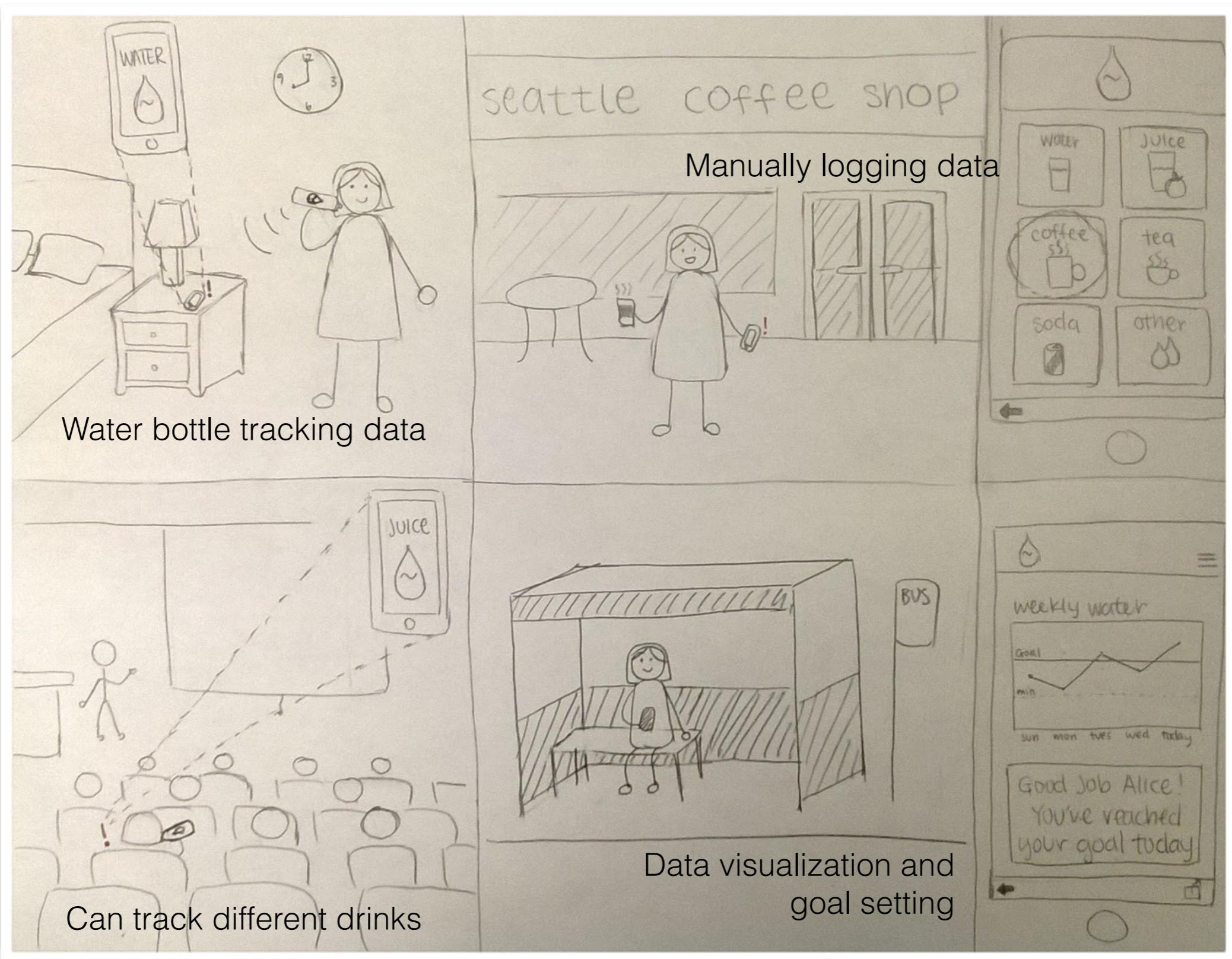
Smart
Reminders



Smooth
Interaction

Storyboard 1

Tracking Water Intake



Storyboard 2

Smart Reminder

9:00 am



11:00 am



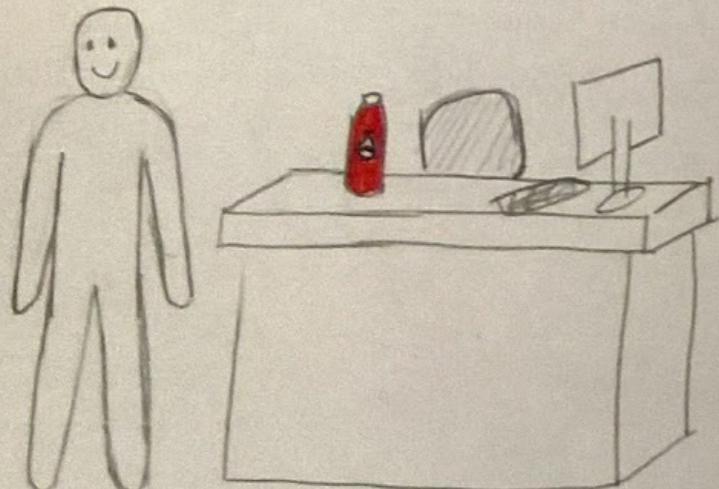
12:00 pm



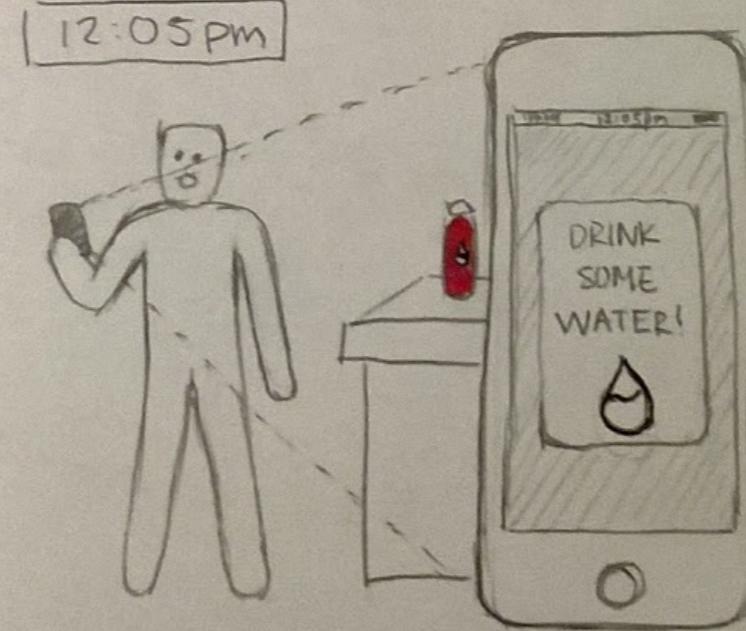
Bob ignores reminder from bottle

12:03 pm

Mobile app reminds
Bob to drink water

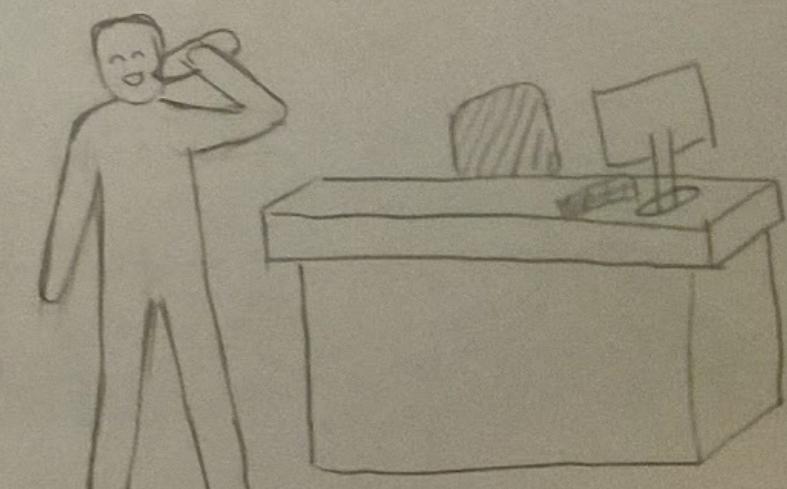


12:05 pm



12:06 pm

Bob drinks water



Summary

- Communication and teamwork are important
- Always keep target users in mind
- Quickly create sketches and iterate fast
- Explore beyond your initial idea



Thank you!

Any Questions?



Reference

- <http://www.medicaldaily.com/75-americans-may-suffer-chronic-dehydration-according-doctors-247393>
- <http://authoritynutrition.com/how-much-water-should-you-drink-per-day/>
- <http://water.usgs.gov/edu/propertyyou.html>