

AQUEOUS

Your Water Drinking Expert



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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



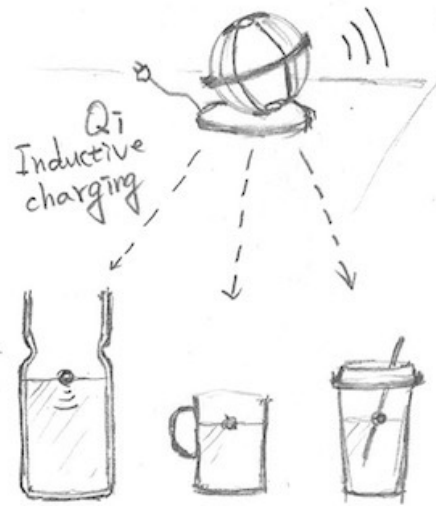
Contextual Inquiry

- 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

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*)

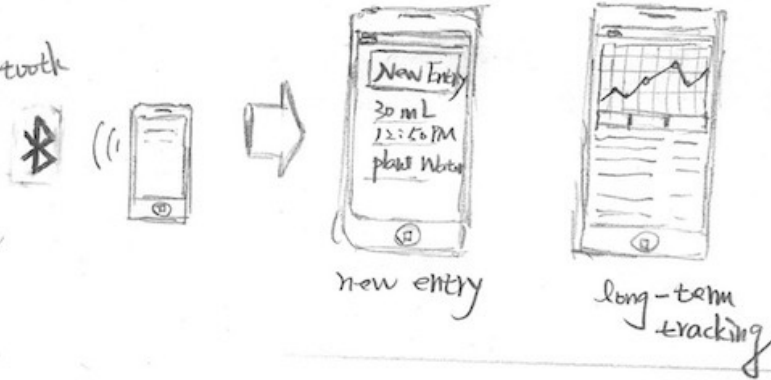
Sensor Ball
detect
water level
ingredient



Tracking Liquid Intake

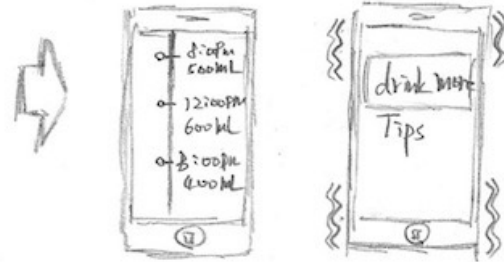
✓ Tracking (Automatically Recording)

Bluetooth



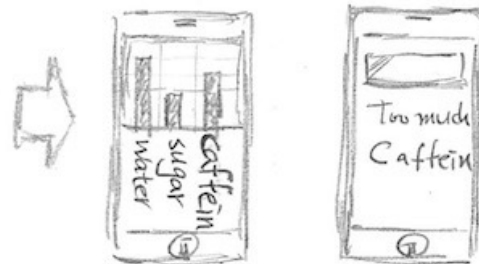
Education on Hydration

Personalized Drinking Timetable } Education ✓
Reminder ✓



Convenient Reminders

✓ Suggestions

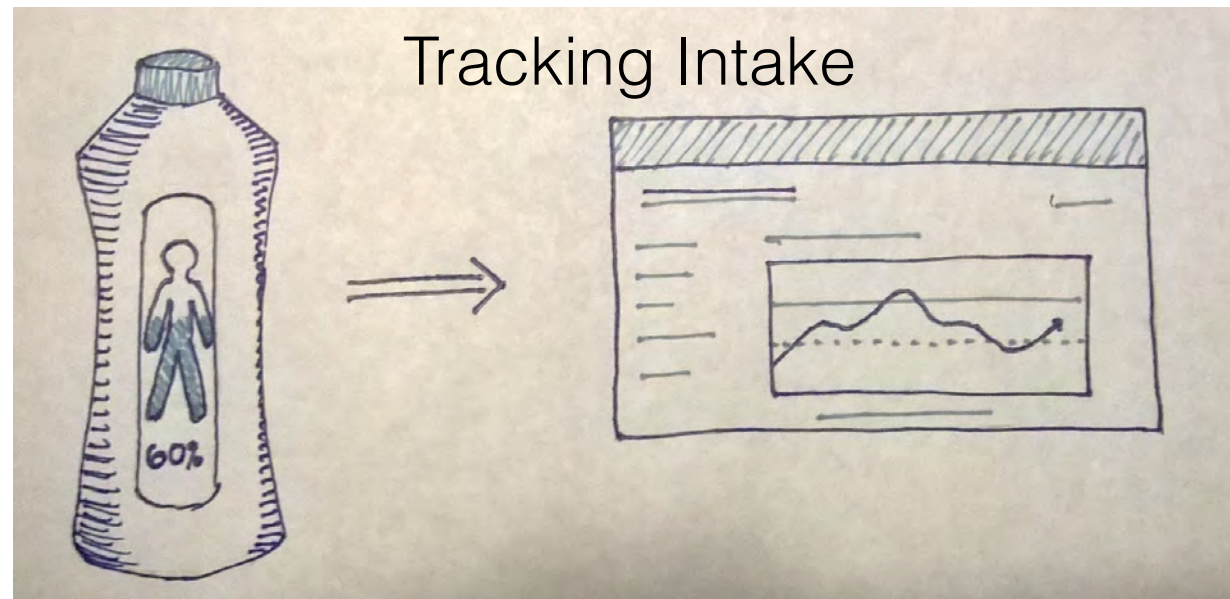


detect ingredients
& give suggestions

Smart Beverage Suggestions

Design 1

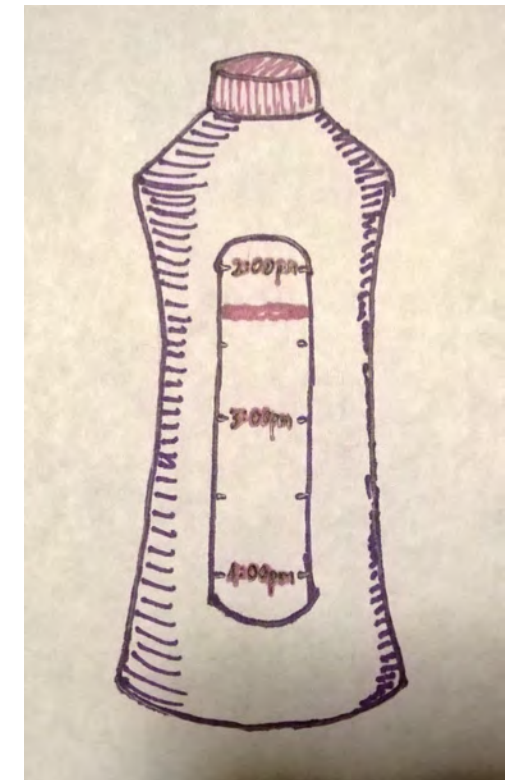
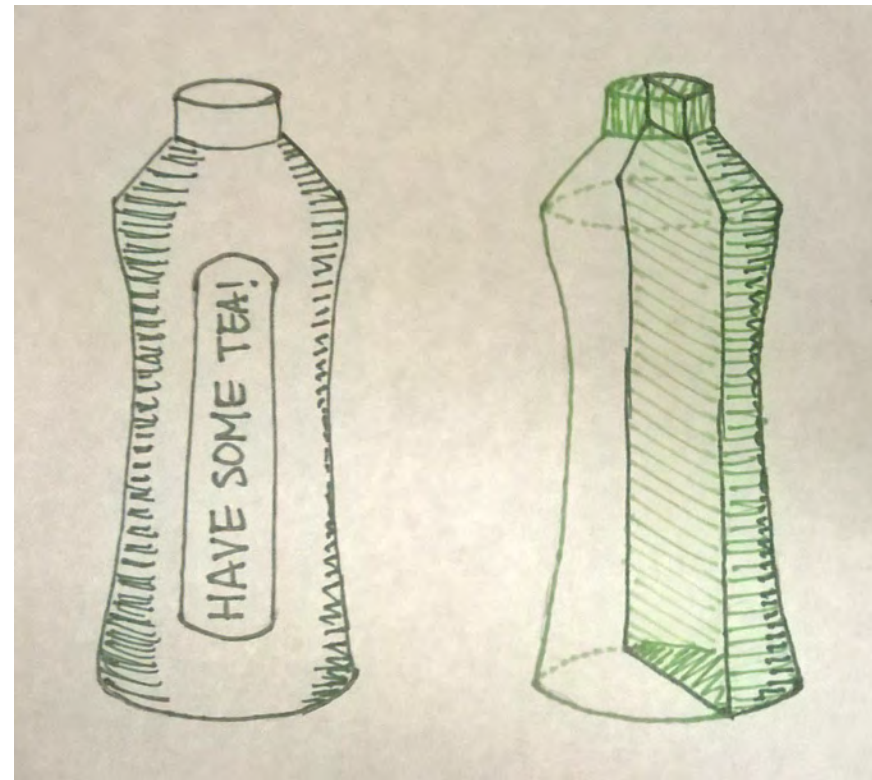
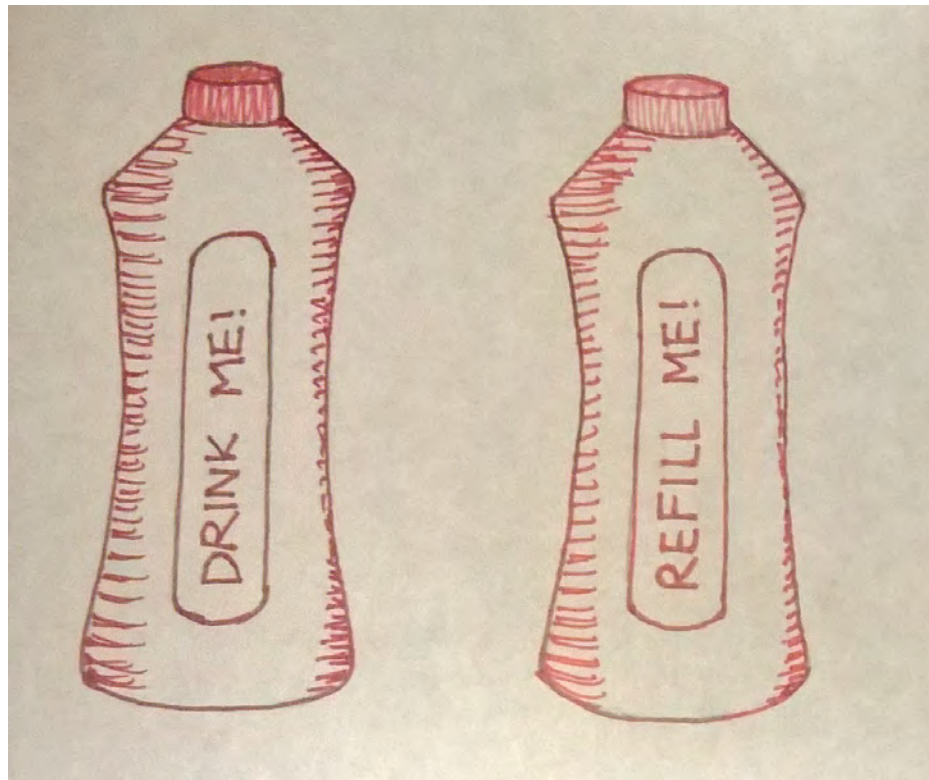
Sensor Ball with Mobile App



Convenient Reminders

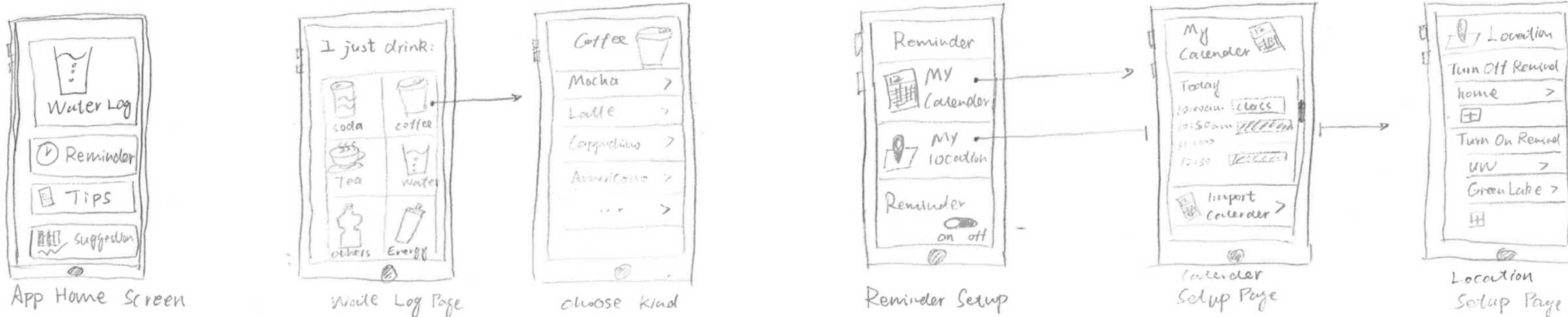
Smart Suggestions

Motivation



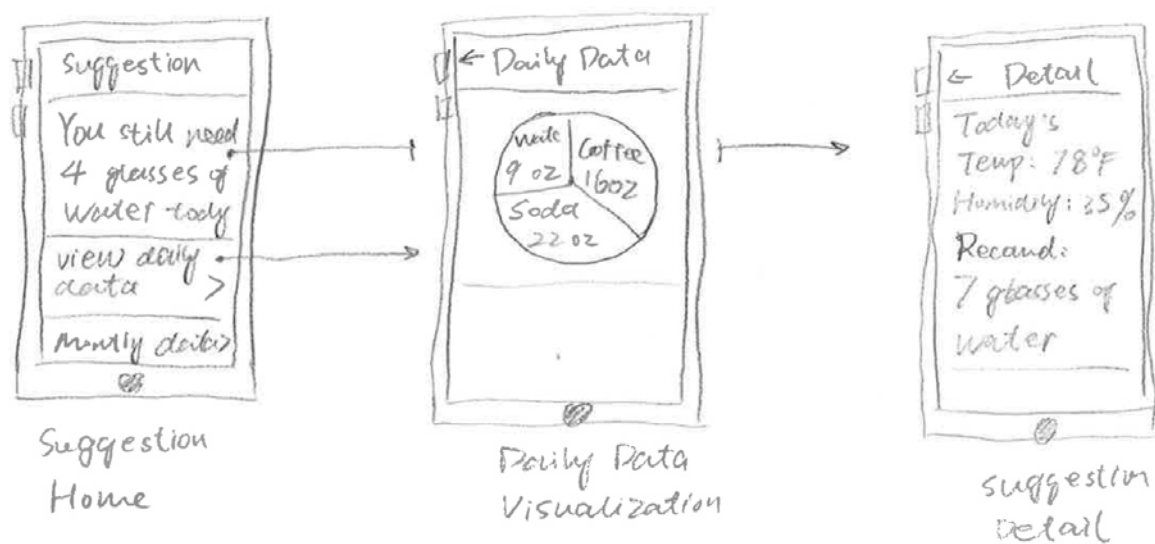
Design 2

Smart Water Bottle with Display

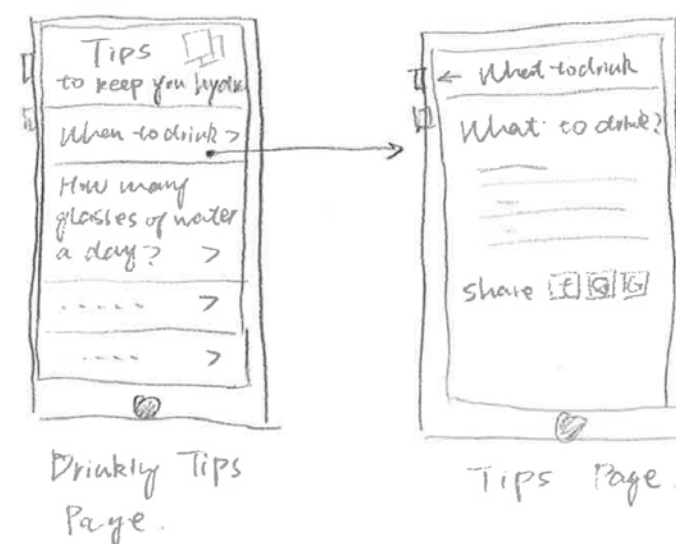


Tracking Liquid Intake

Smart Reminder Setup



Tips for Water Intake

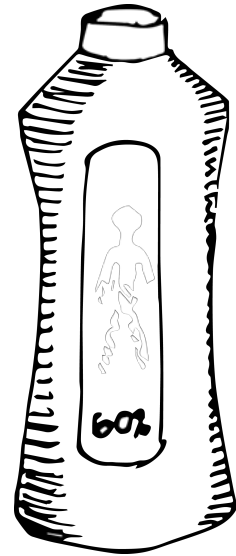


Daily Suggestions

Design 3

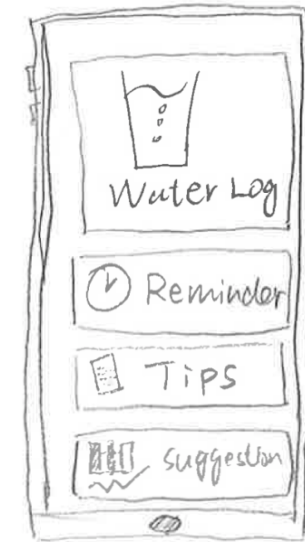
Smartphone Application

Selected Design and Tasks



Bottle with display
and Built-in Sensor

+

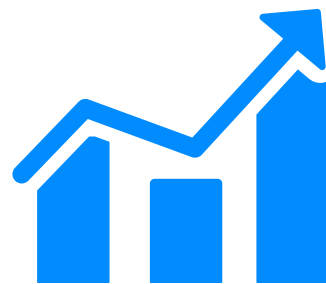


Mobile App

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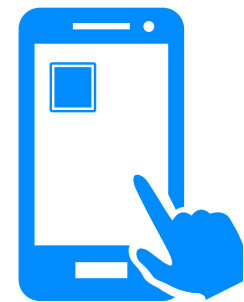
Easy to Track



**Data
Visualization**



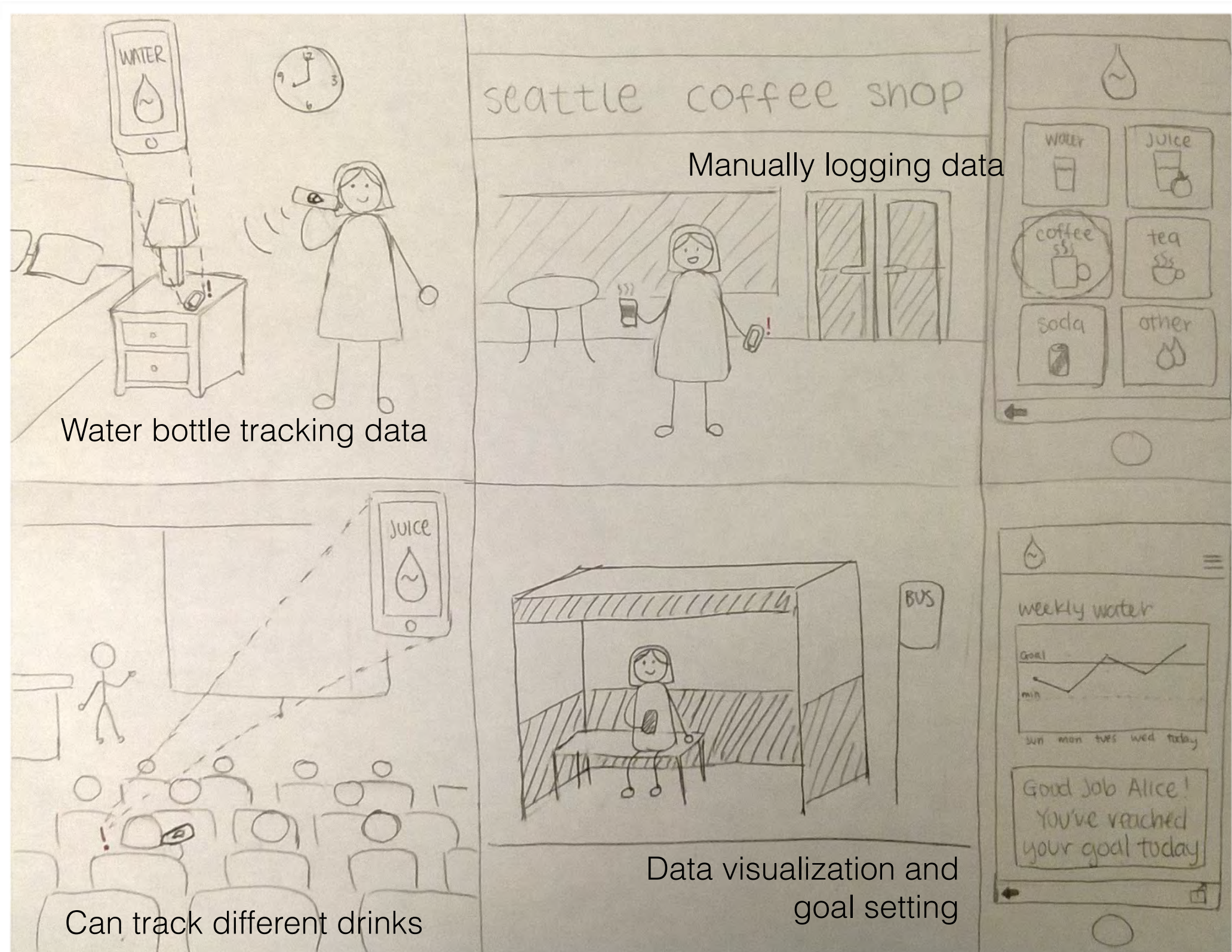
**Smart
Reminders**



**Smooth
Interaction**

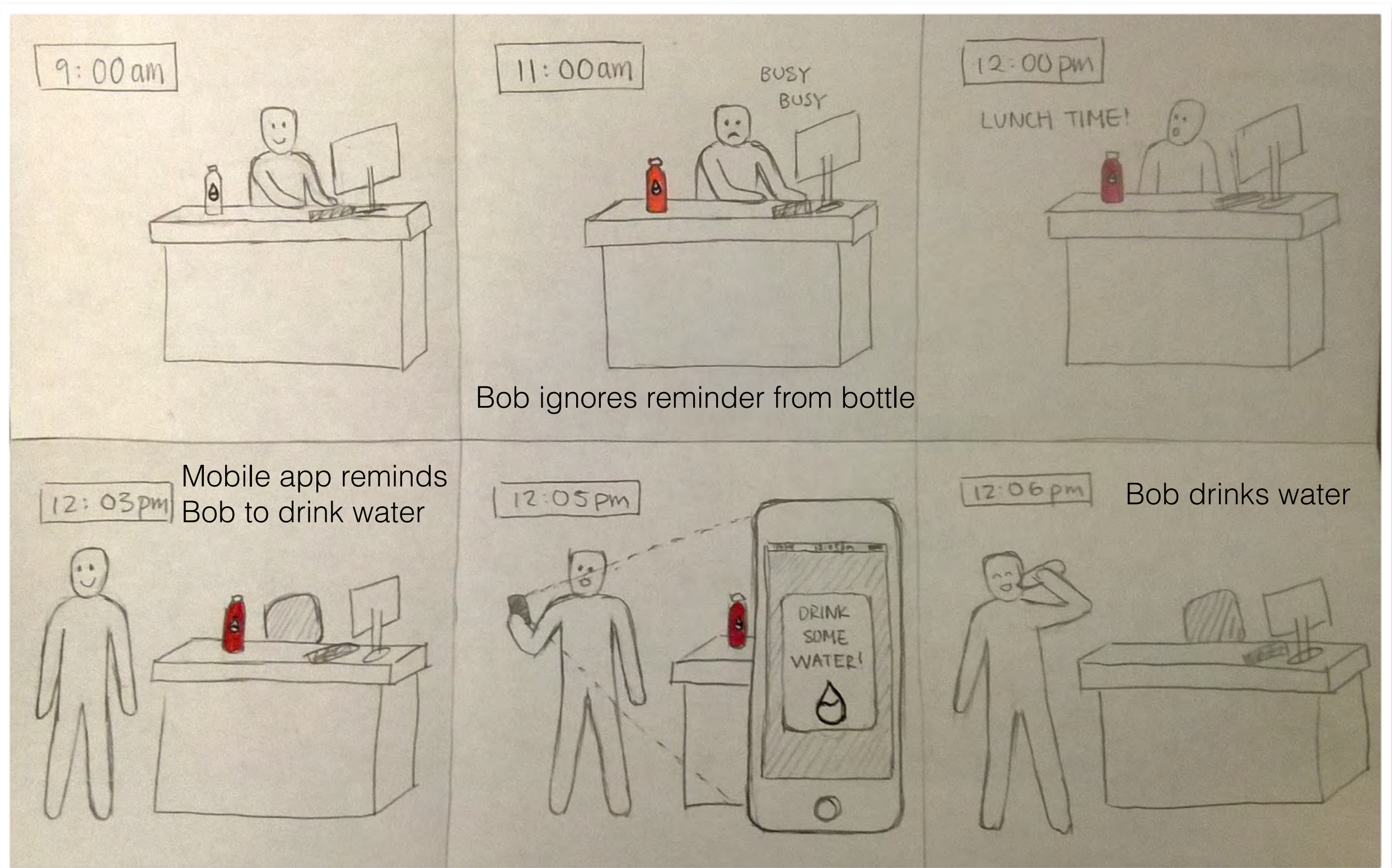
Storyboard 1

Tracking Water Intake



Storyboard 2

Smart Reminder



A glass of water with ice and a splash of water against a blue sky background. The glass is on the left side of the frame, and the water is splashing upwards. The background is a blue sky with some clouds and a body of water in the distance.

Summary

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

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Thank you!
Any Questions?



References

- <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>