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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 ***

* 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
Initial Paper Prototype
Smart Water Bottle
Initial Paper Prototype

Task 1 - Set Up Smart Reminders
Initial Paper Prototype

Task 2 - Record Water Intake (2/2)
Heuristic Evaluation

Main violations:

• Purpose of syncing calendar unclear
• Users don’t have total control and freedom with the system
• Users don’t have visibility of system status
• Match between system and the real world is not good
Testing Process and Results

Refinements after Heuristic Evaluation (1/2)

Purpose of syncing calendar unclear

Missing default reminder setting
Testing Process and Results

Refinements after Heuristic Evaluation (2/2)

Missing water log

Menu design not match user behavior
Usability Testing

Method

• Did not answer questions or provide help unless absolutely necessary

• Debriefed participants after tests

Summary

• Test 1 - settings page and some UI elements

• Test 2 - settings page documentation and naming

• Test 3 - layout and simplicity
Usability Testing

- Purpose of syncing calendar unclear (Test 1)
- Unnecessary “back” and “done” buttons (Test 1)
- Purpose of syncing calendar unclear (Test 2)
- Confusing default reminders with smart reminders (Test 2)
- Confused about menu bar (Test 3)
- Reminder settings page too cluttered (Test 3)
Testing Process and Results
Refinements after Usability Testing 1

Purpose of syncing calendar unclear

Unnecessary “back” and “done” buttons
Usability Testing

- Purpose of syncing calendar unclear (Test 1)
- Unnecessary “back” and “done” buttons (Test 1)
- Purpose of syncing calendar unclear (Test 2)
- Confusing default reminders with smart reminders (Test 2)
- Confused about menu bar (Test 3)
- Reminder settings page too cluttered (Test 3)
Testing Process and Results
Refinements after Usability Testing 2

Purpose of syncing calendar (still) unclear

Confusing default reminders with smart reminders
Usability Testing

- Purpose of syncing calendar unclear (Test 1)
- Unnecessary “back” and “done” buttons (Test 1)
- Purpose of syncing calendar unclear (Test 2)
- Confusing default reminders with smart reminders (Test 2)
- Confused about menu bar (Test 3)
- Reminder settings page too cluttered (Test 3)
Testing Process and Results

Refinements after Usability Testing 3

Confused about menu bar

Reminder settings page too cluttered
Final Paper Prototype

Task 1 - Set Up Smart Reminders (1/2)
Final Paper Prototype

Task 1 - Set Up Smart Reminders (2/2)
Final Paper Prototype

Task 2 - Record Water Intake
Digital Mockup
Task0 - Application Introduction

AQUEOUS
Your water drinking expert

Record Your Drink
- Record your drinking constantly
- Set up your profile and smart reminder
- Track your water drinking history

MyLog
Record
Settings
Digital Mockup

Task 1 - Set Up Smart Reminders (1/2)

- Personal Profile
- Reminder Setting
- About this app

Reminder
- From: 9:00
- To: 6:00
- Repeat: Every 1 hour

Import Calendar
When your calendar is imported and enabled reminding notifications will be cancelled if your status is busy on calendar.
Digital Mockup

Task 1 - Set Up Smart Reminders (2/2)
Digital Mockup
Task2 - Record Water Intake (1/3)
Digital Mockup

Task 2 - Record Water Intake (2/3)

[Images of mobile app screens showing a feature to record water intake]
Digital Mockup

Task2 - Record Water Intake (3/3)
Summary

- Iterative design is very effective and powerful
- The initial design is always not the best design
- It is important to get reliable feedback from users
- Users WILL NOT always understand your design
Thank you!

Questions?