



PLANTR PAPER PROTOTYPE & USER TESTING

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PROBLEM



Plants can improve mood and health

But many plant owners struggle with caring for their plants

SOLUTION

Phone app allows user to interact with plant

Sensor tracks plant's basic condition



SOLUTION

anthropomorphize plants

Phone app allows user to interact with plant

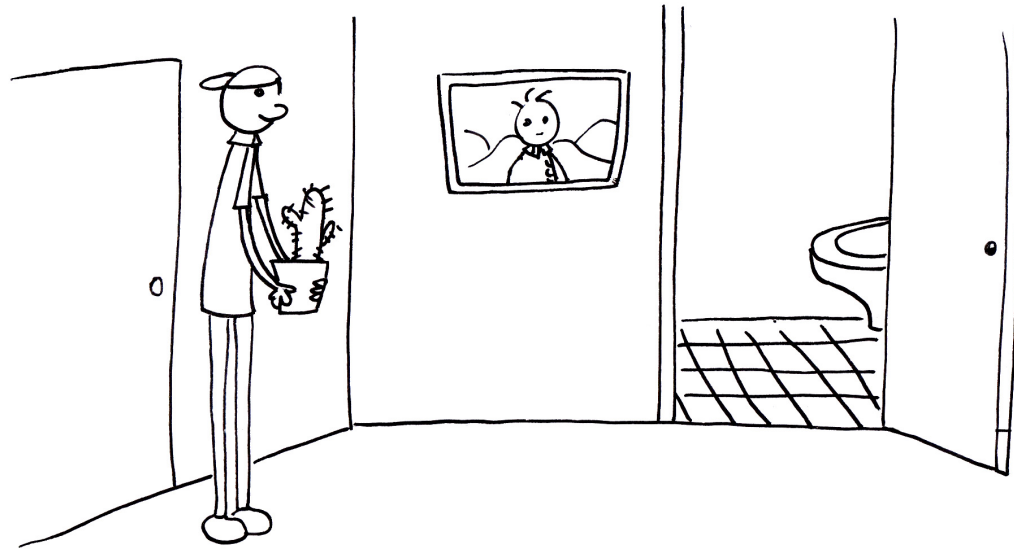
care reminders

Sensor tracks plant's basic condition

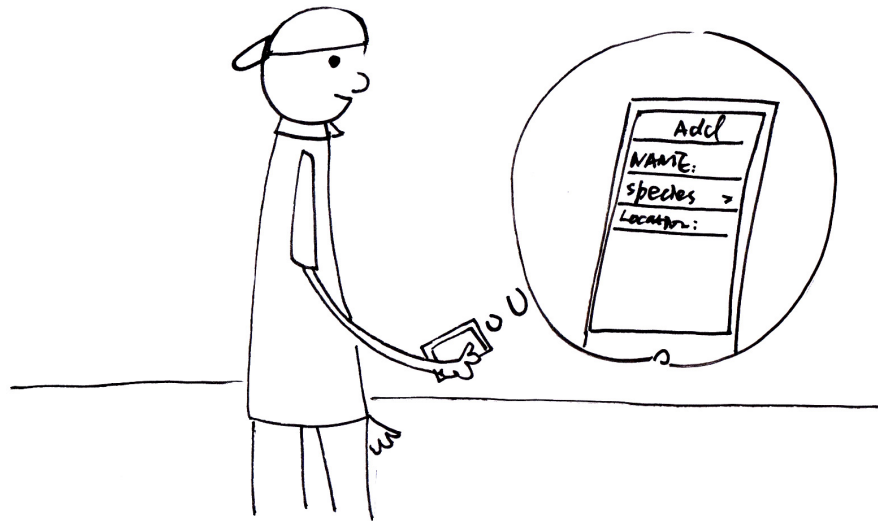
basic care information

something is wrong



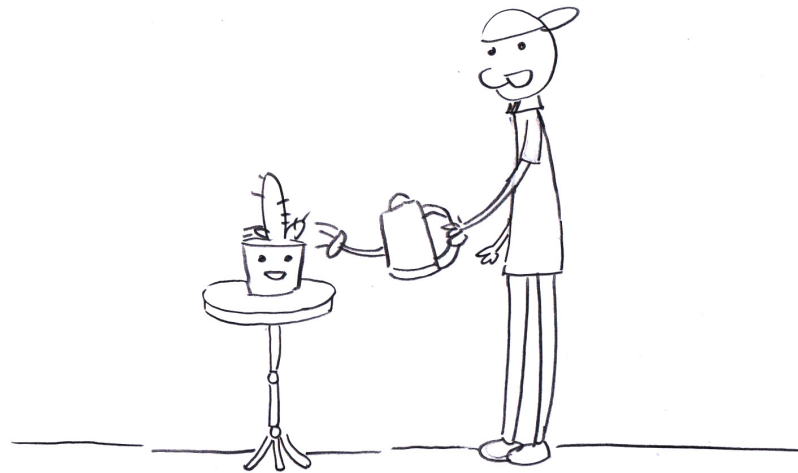


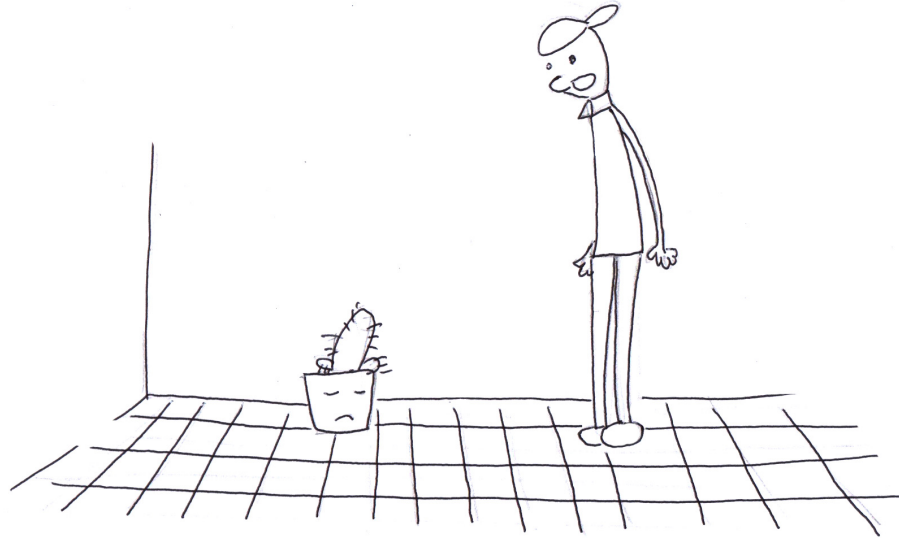
Determining how to care for a plant





Remembering to care for a plant

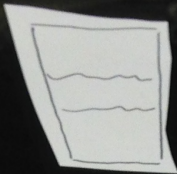
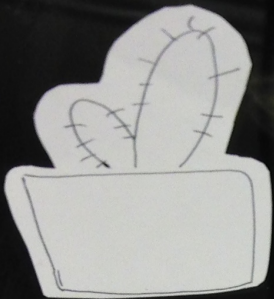




Handling care when something is wrong



PLANT



WATER CUP



PLANTR SENSOR

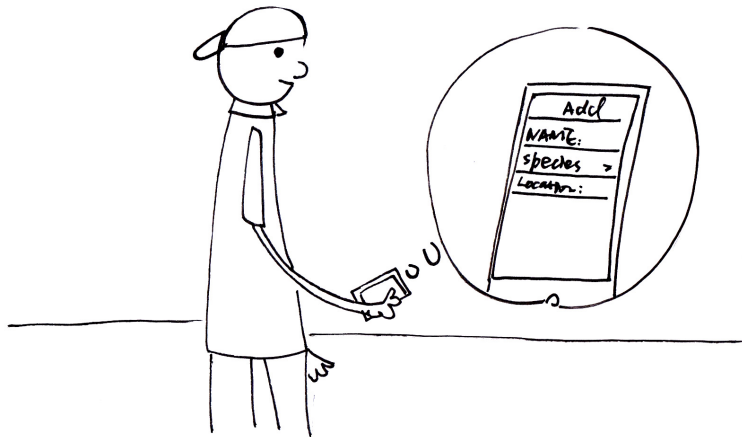
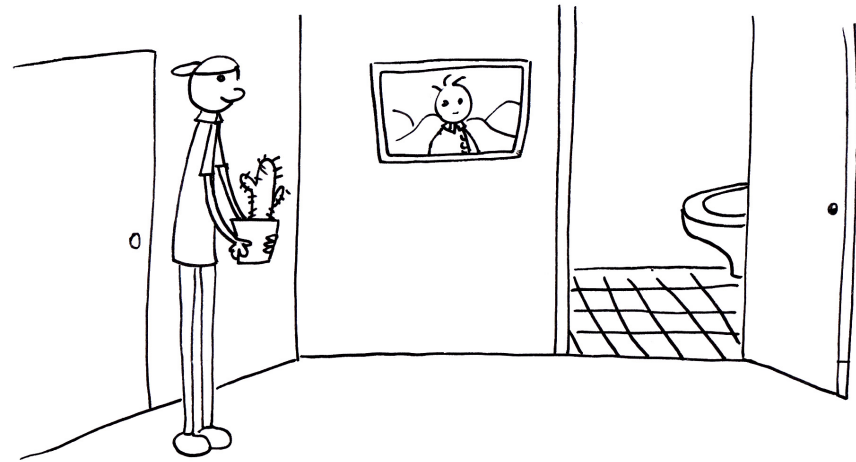
PROTOTYPE STRUCTURE

PAPER SCREENS

CARDBOARD IPHONE FRAMES



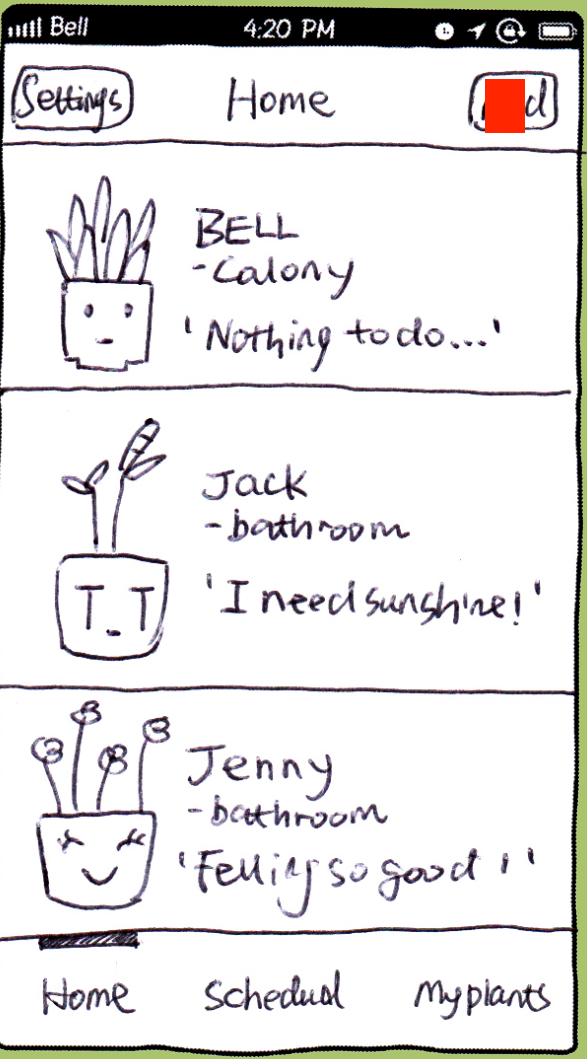
PLANTRTASKS



- Jack has just purchased a cactus from IKEA
- He wants to get basic care info for his cactus by adding it Plantr

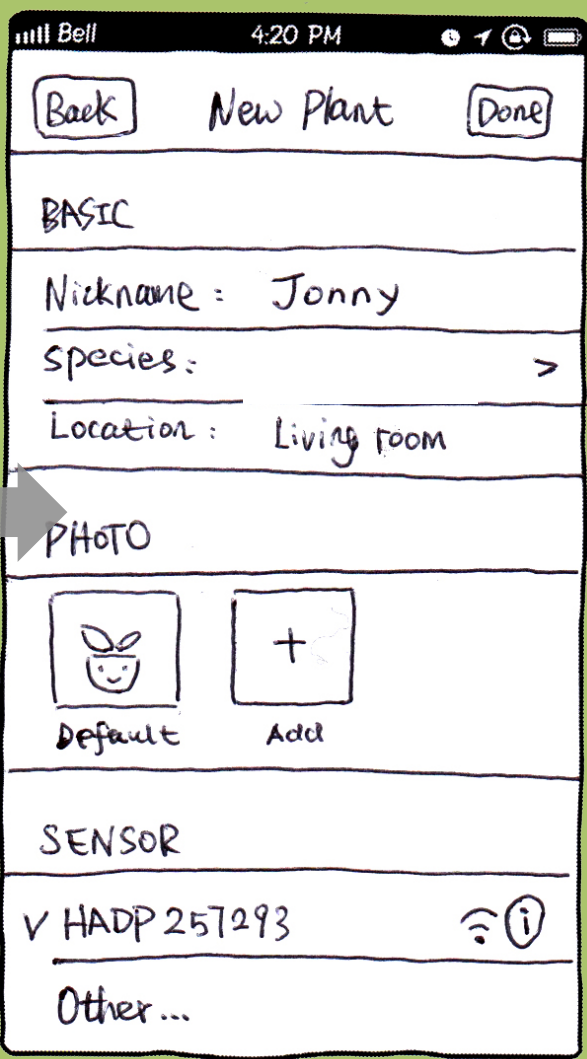
Add a plant
Learning how to care for a plant

TASK 1



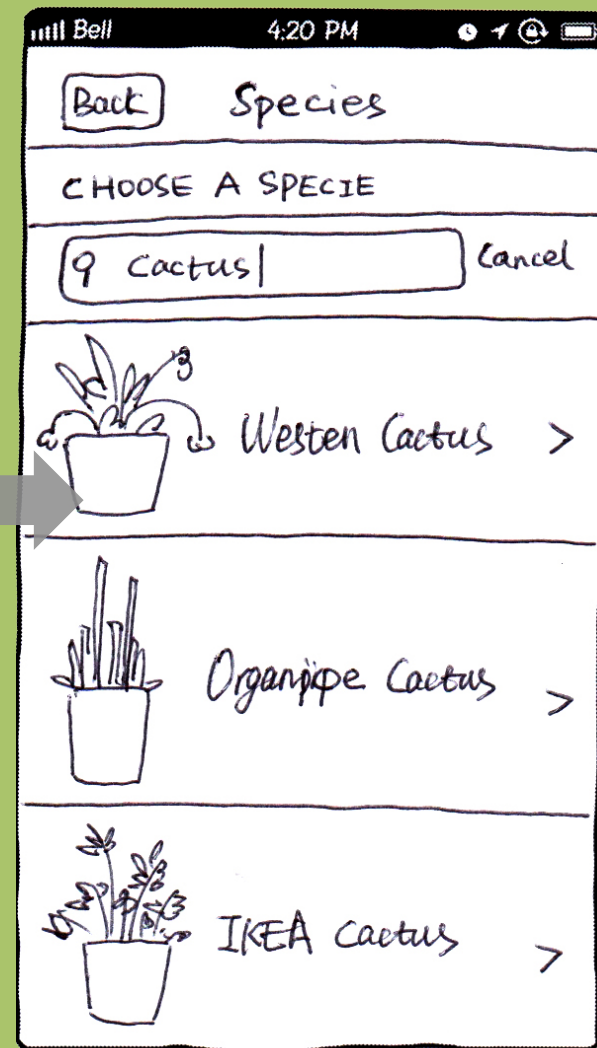
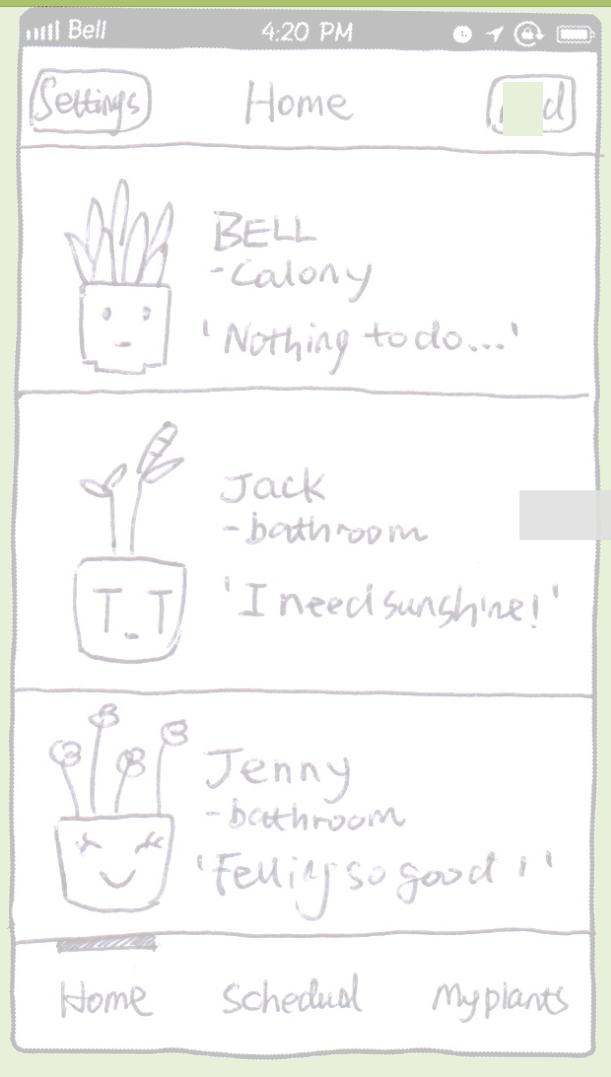
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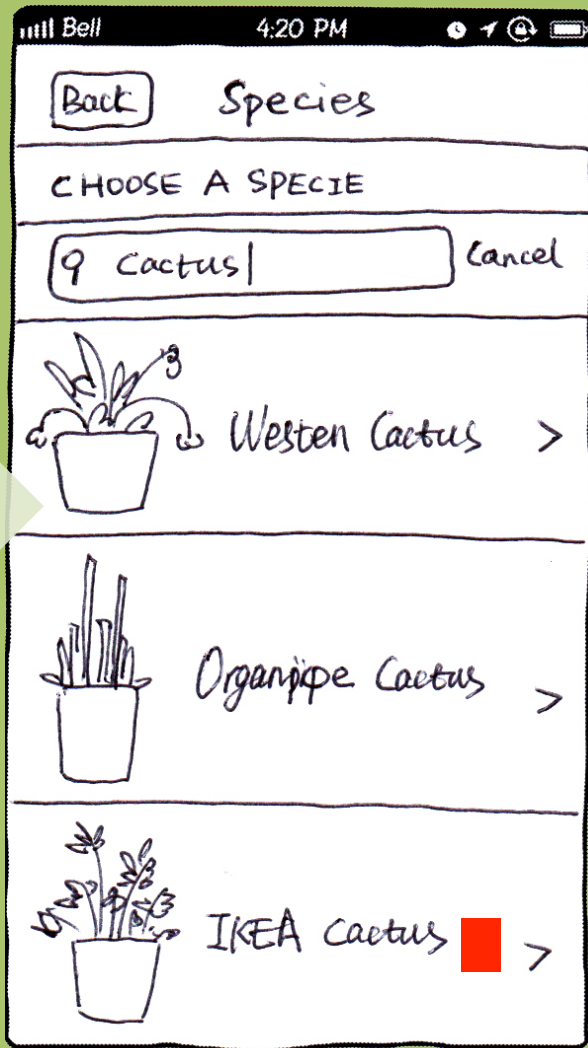
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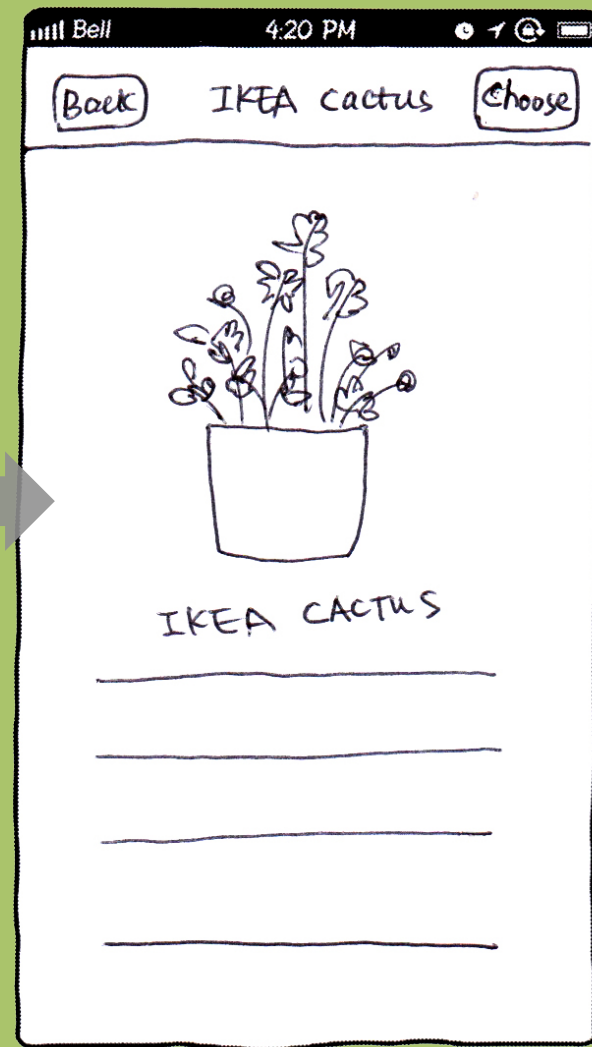
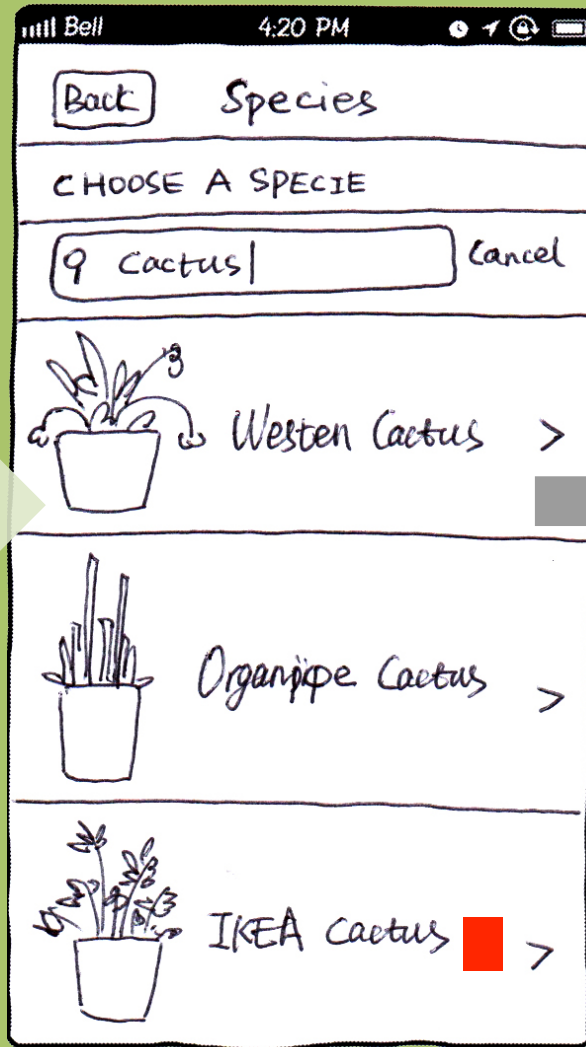
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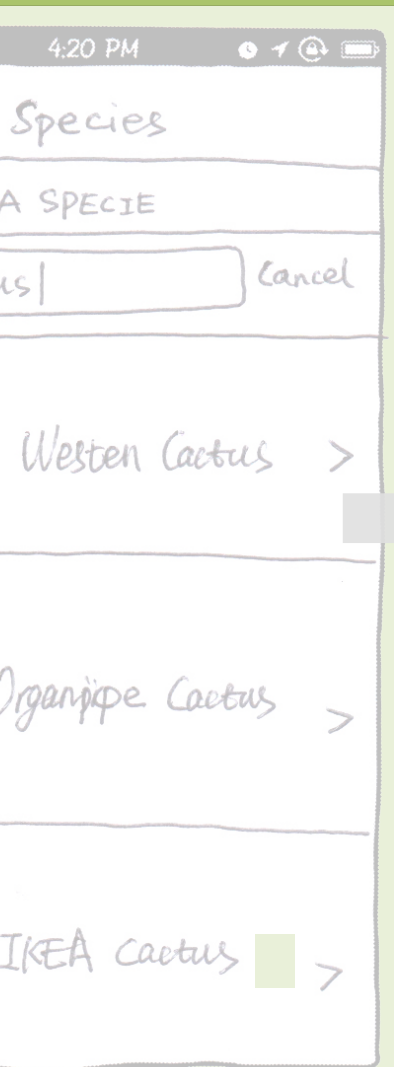
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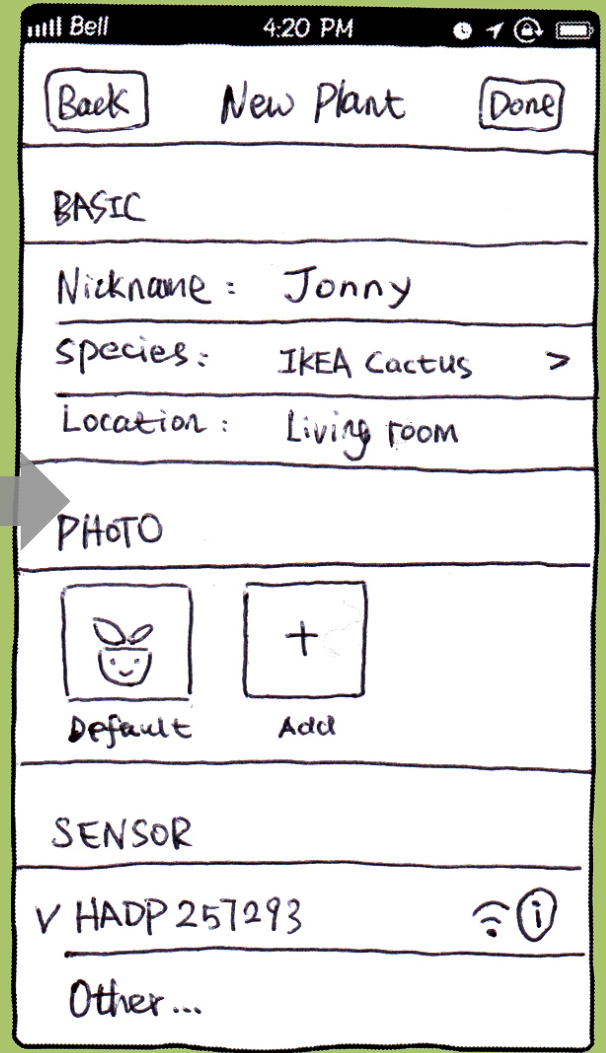
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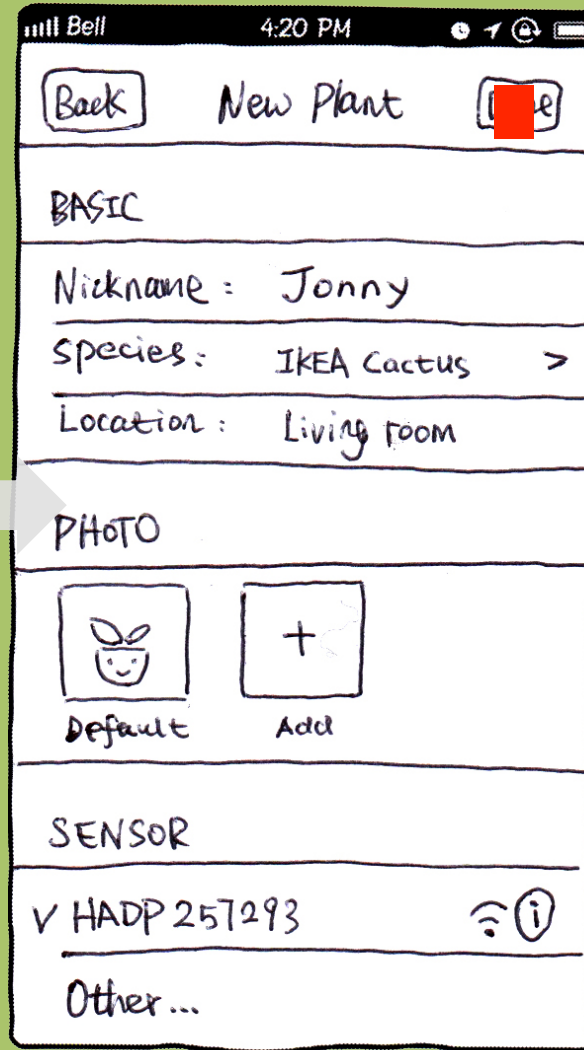
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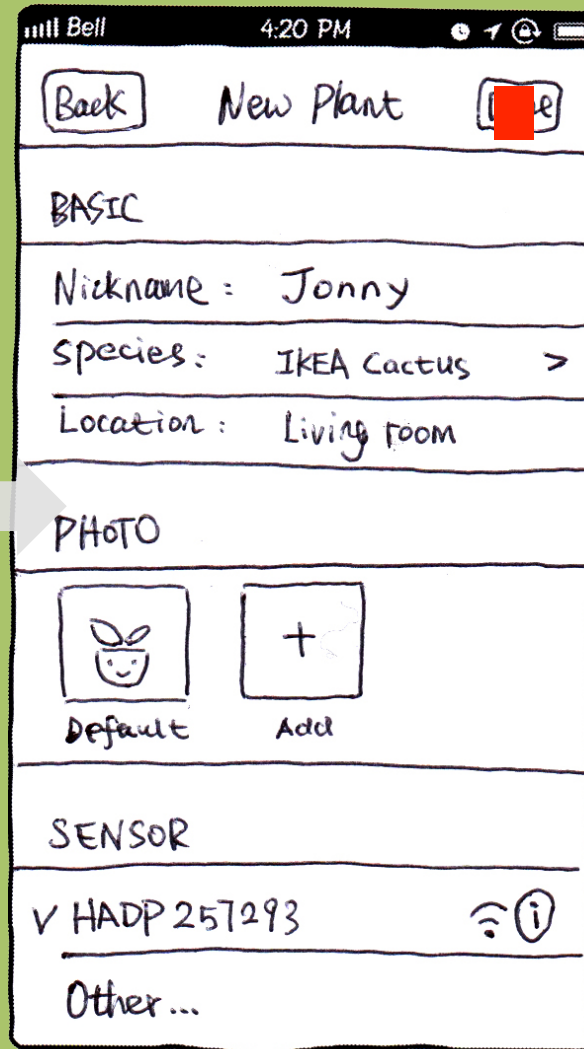
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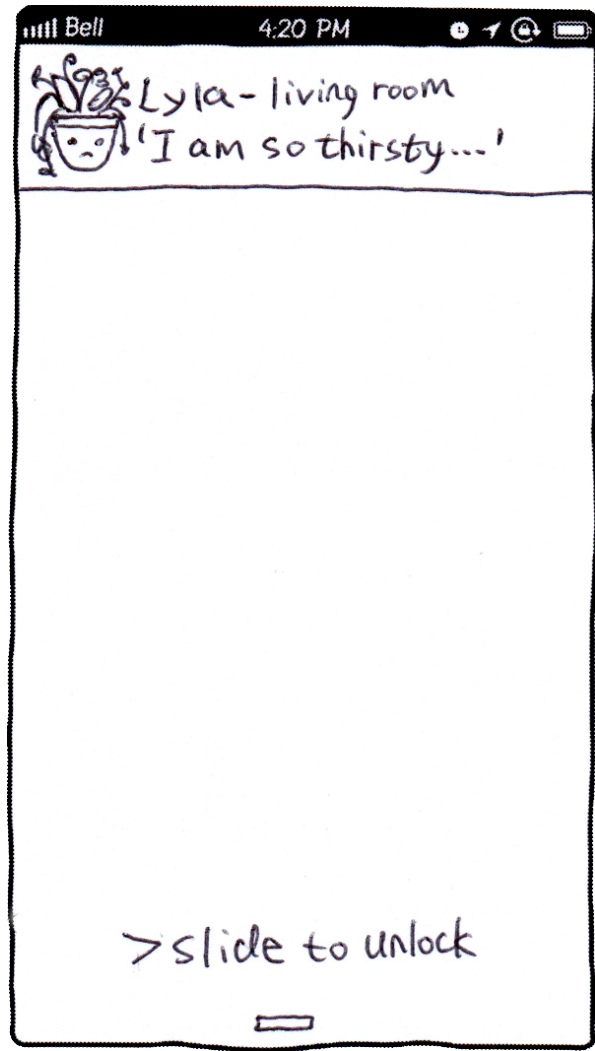


- Jack has killed 5 IKEA cactuses before
- Now that he has Plantr, Jack has no trouble **regularly caring** for his cactuses



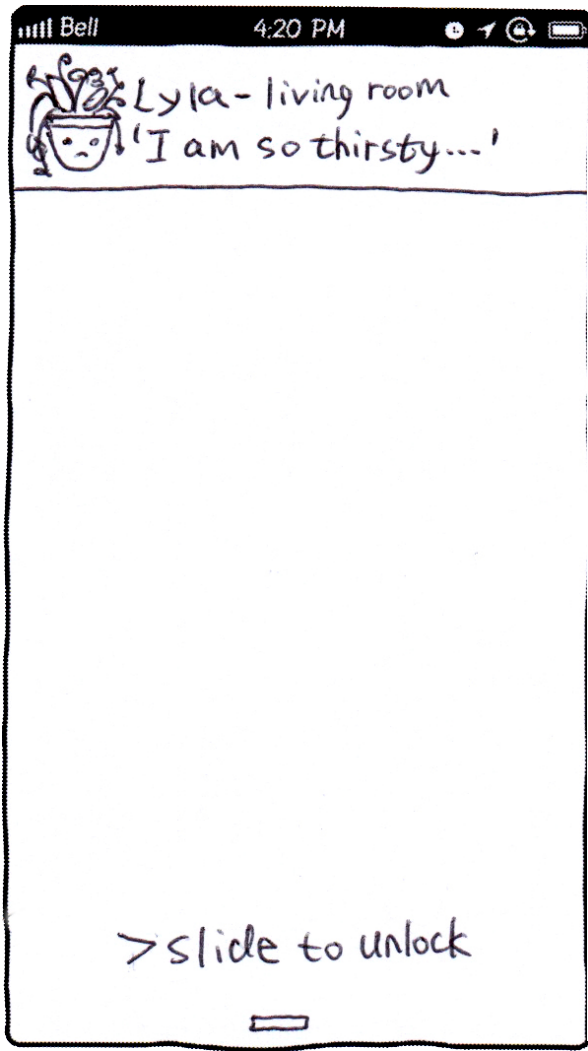
Plant reminders
Remembering how to care for a plant

TASK 2



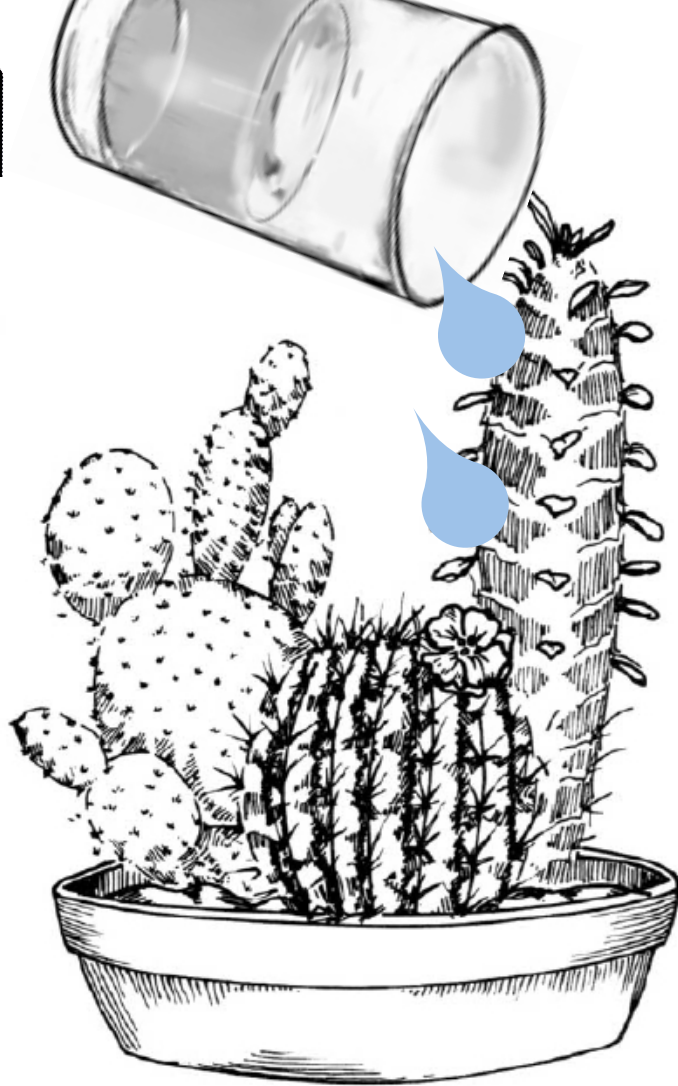
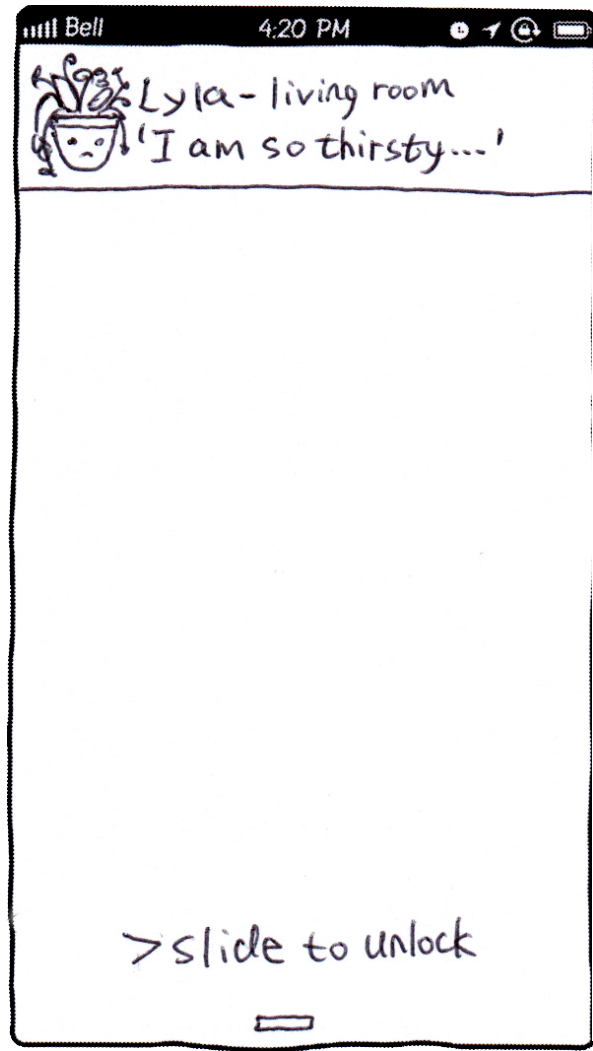
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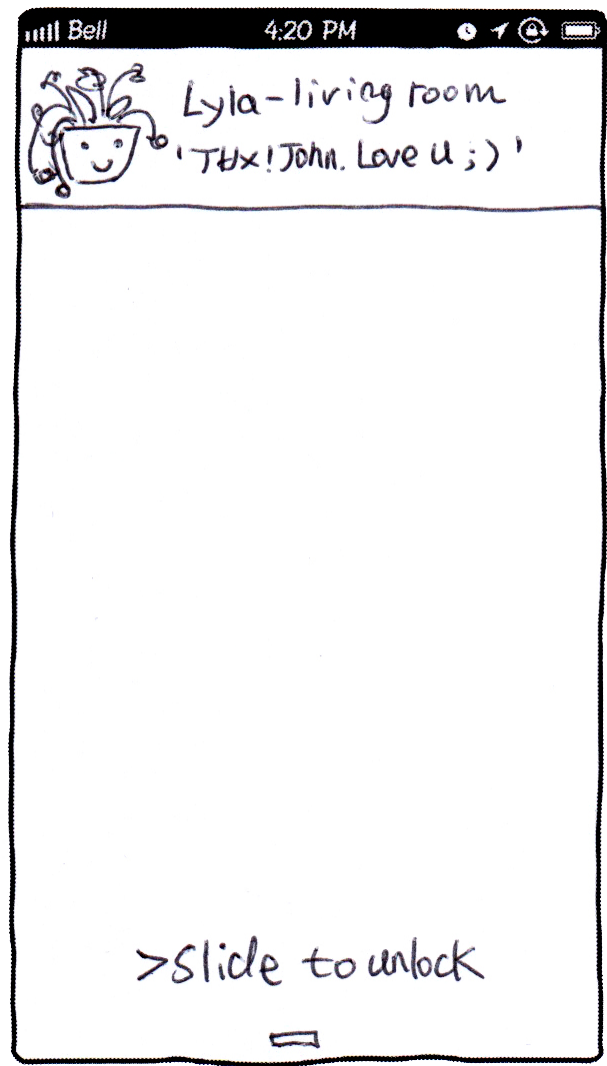
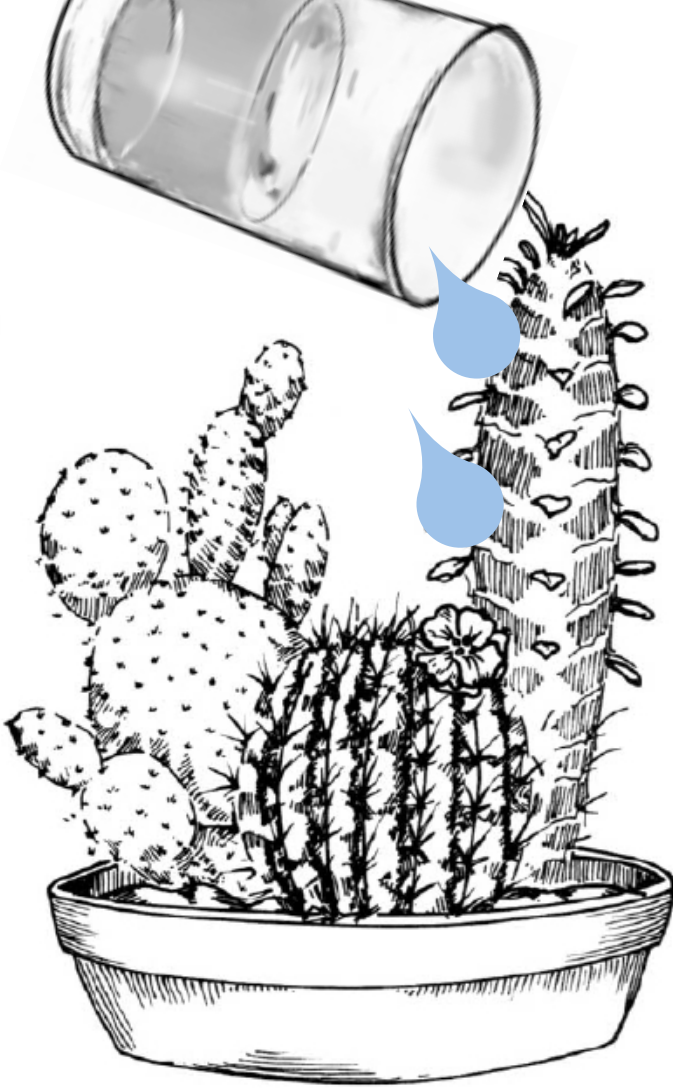
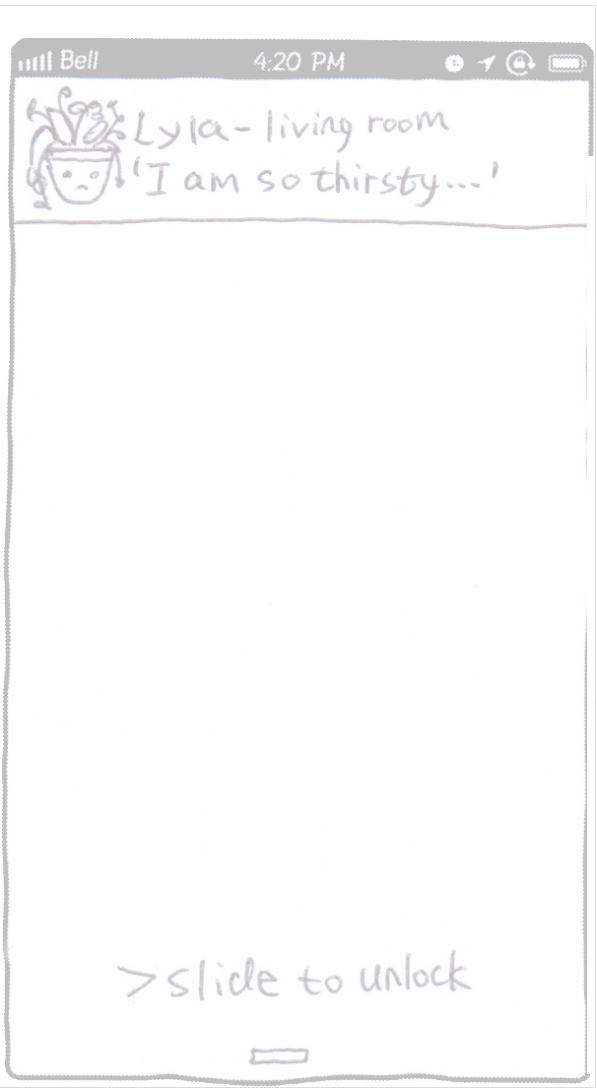
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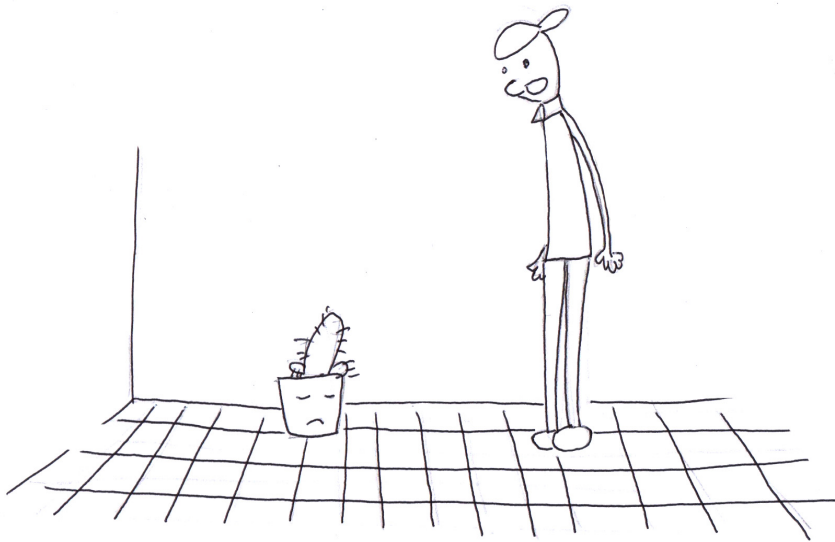
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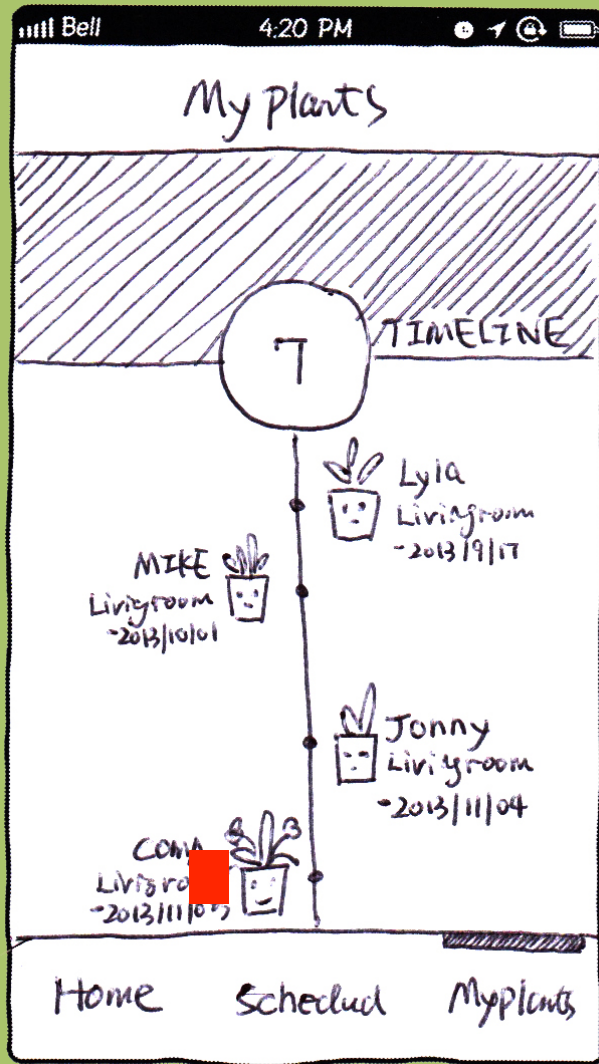
TASK 2



- With the help of Plantr, Jack is able to take care of his cactuses
- He becomes an indoor plant enthusiast and takes on the challenge of caring for an orchid
- Jack notices that his orchid has black spots
- He wants to know what the problem is
- He wants to know how he can help his orchid

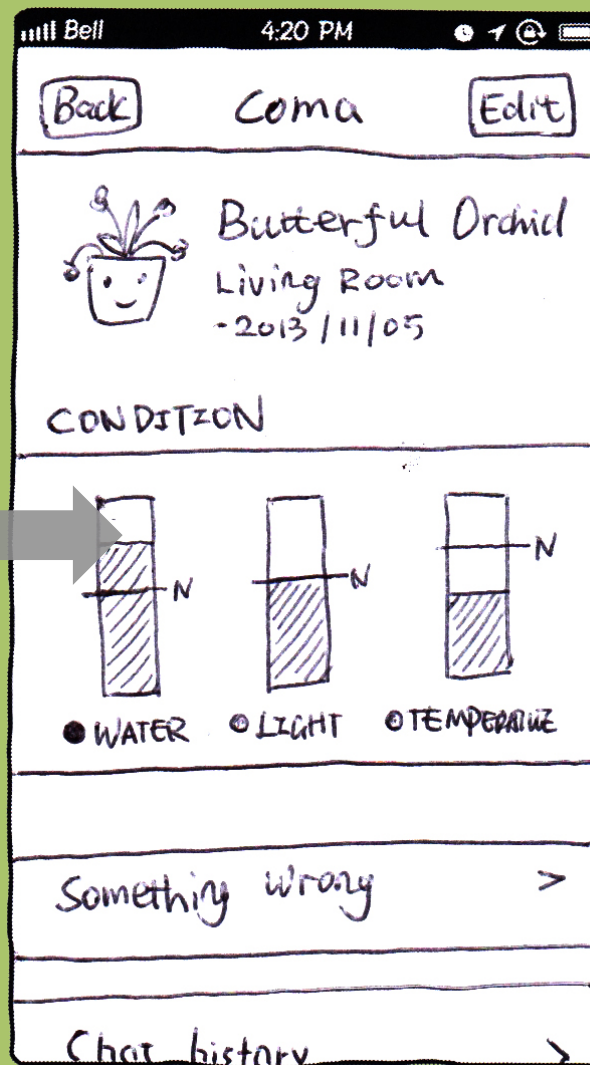
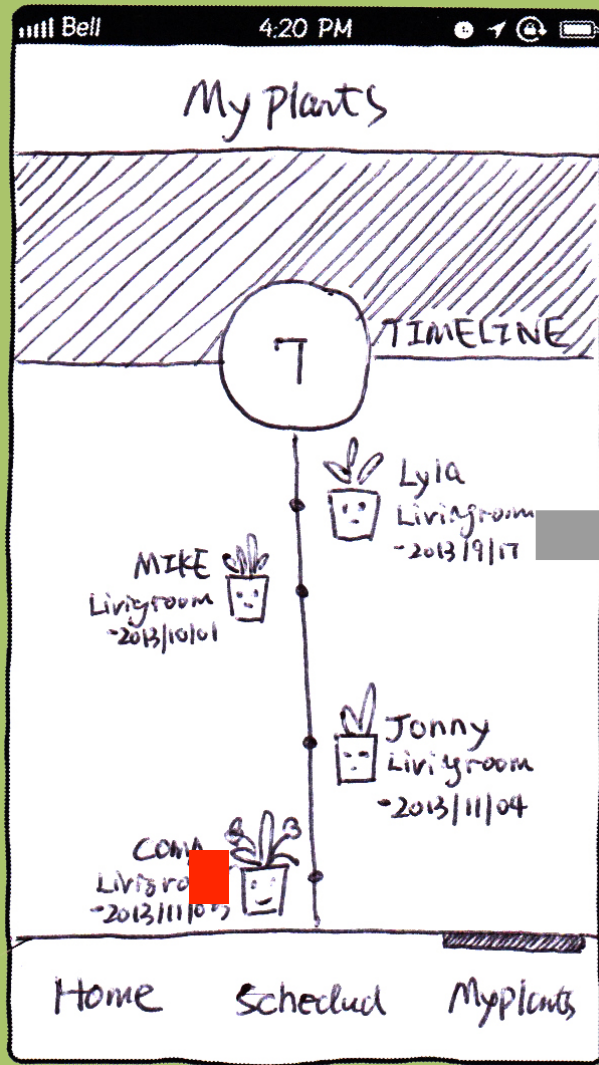
Diagnosing a problem and getting help

TASK 3



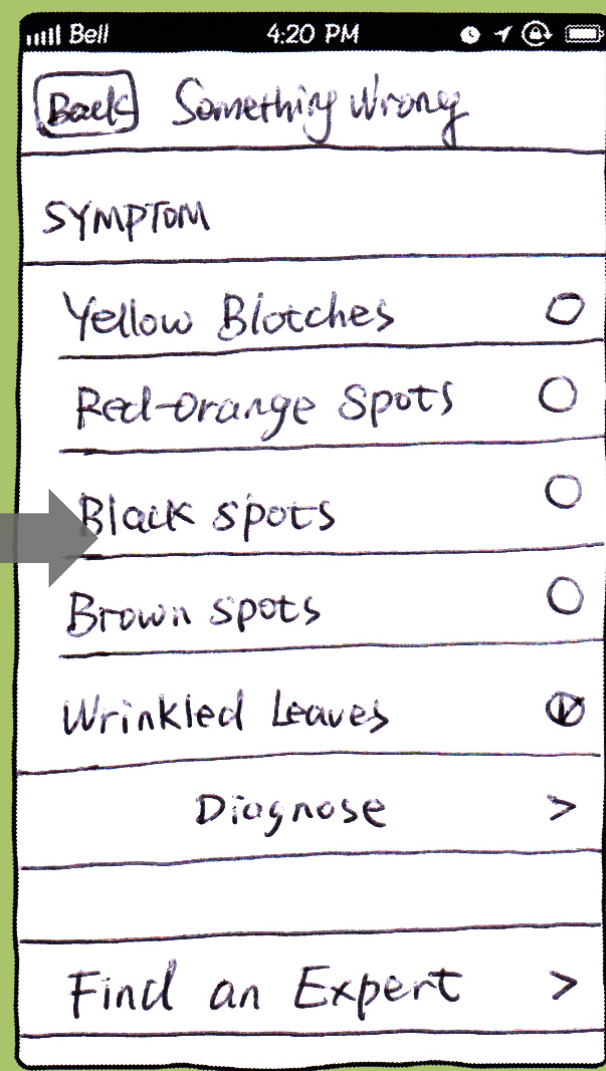
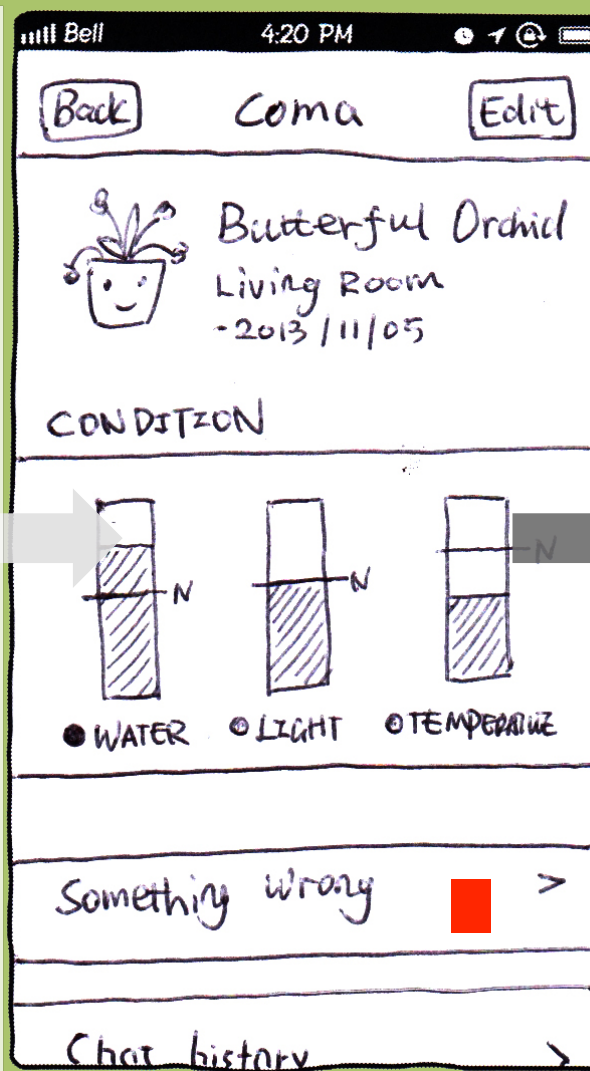
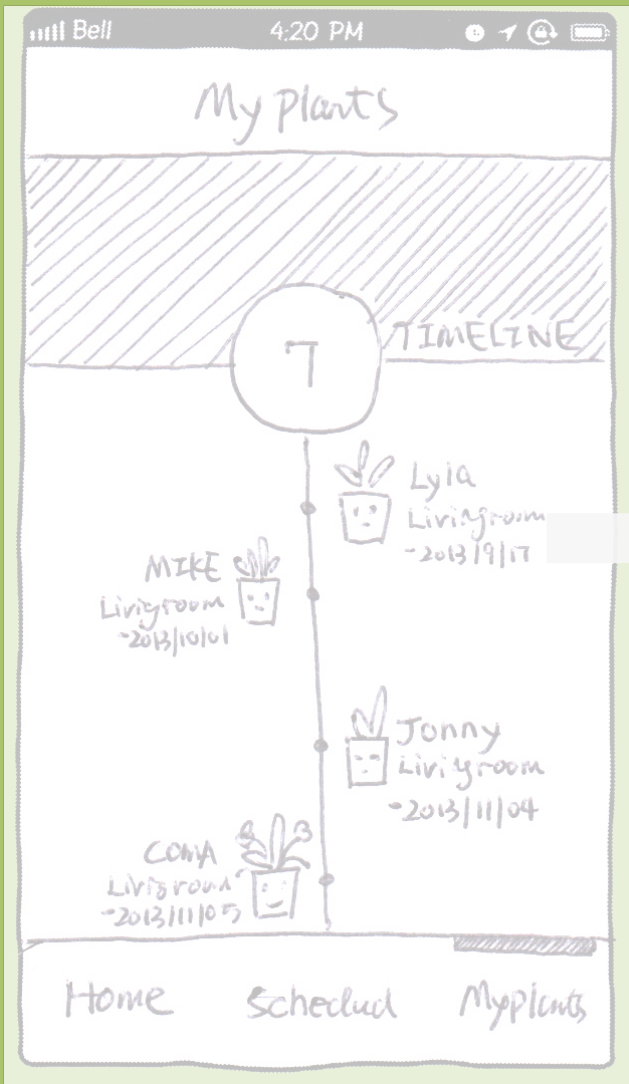
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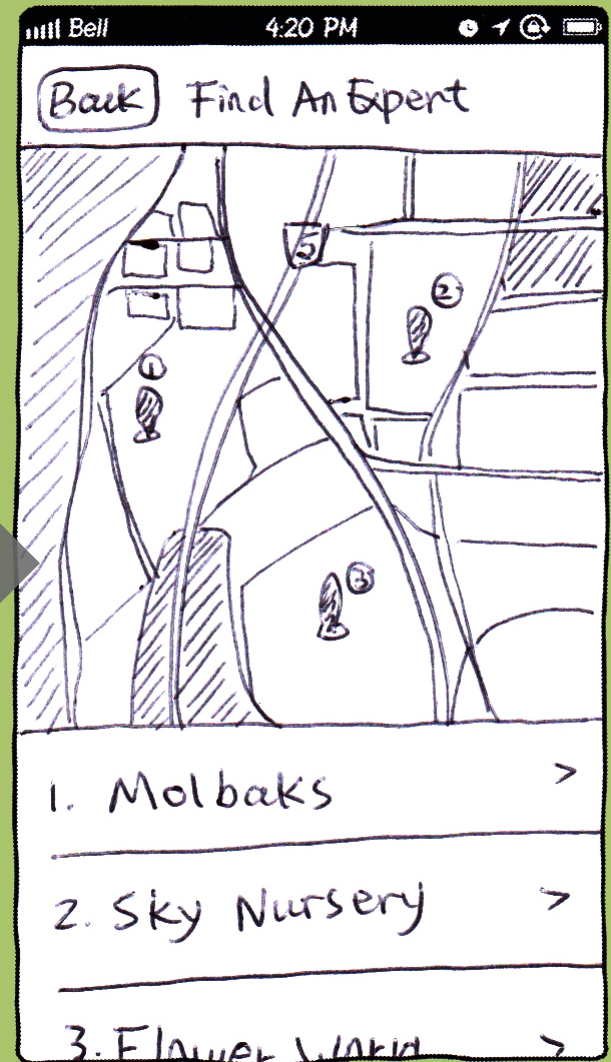
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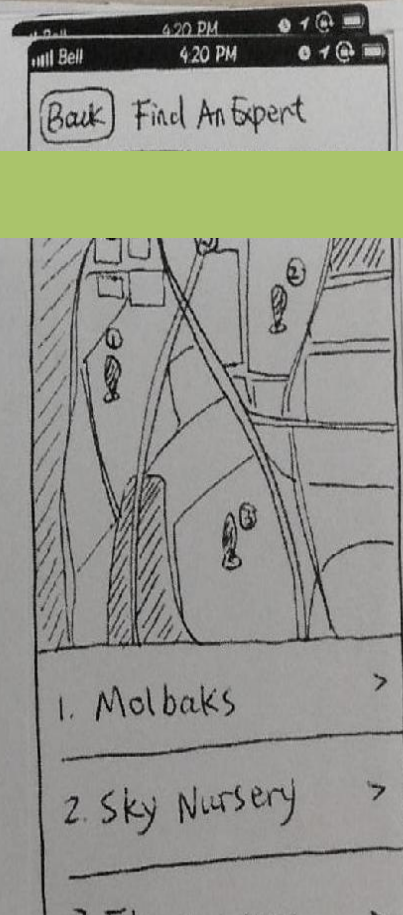
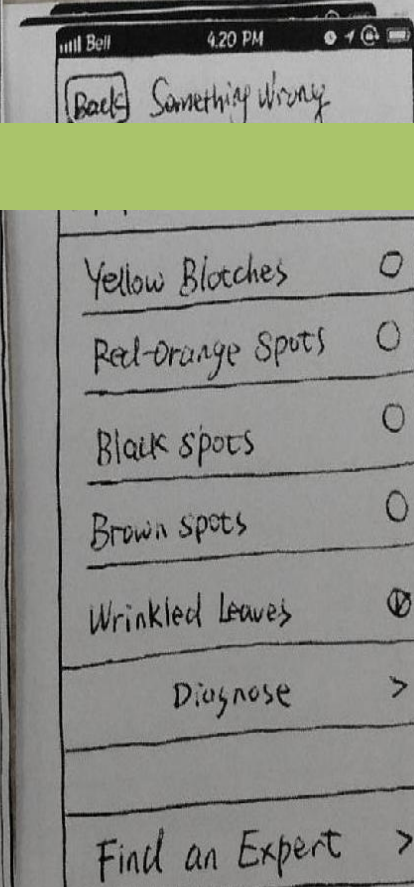
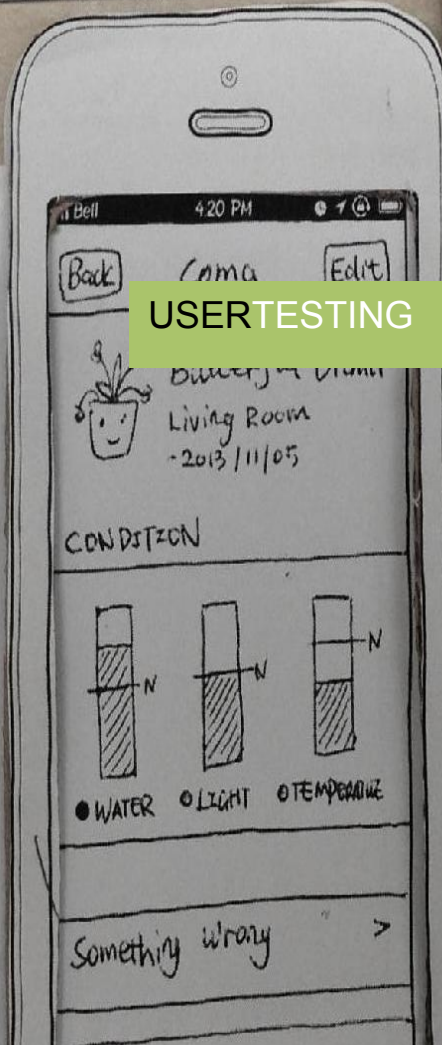
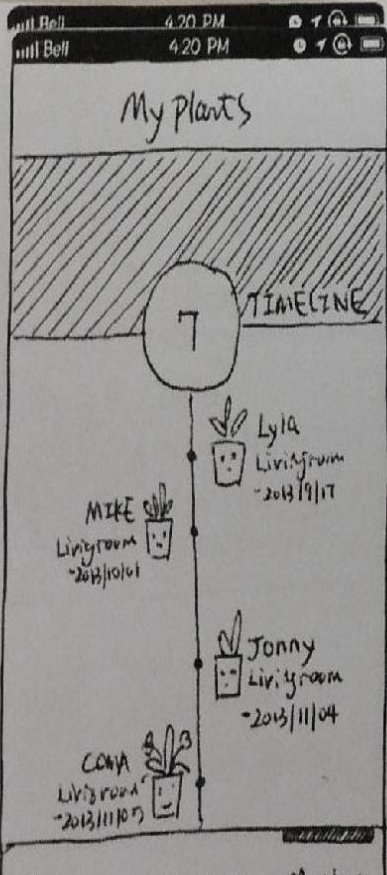
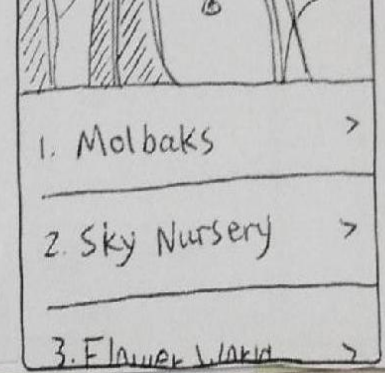
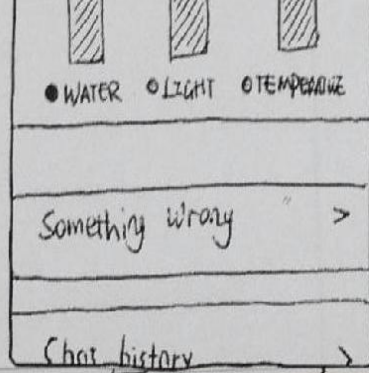
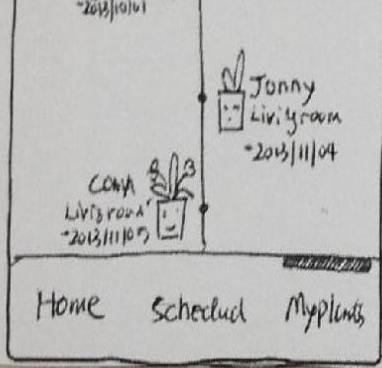
Diagnosing a problem and getting help

TASK 3



Diagnosing a problem and getting help

TASK 3



USERTESTING

TESTINGMETHOD

Participants & Environment

- UW student – CSE atrium
- Two women from plant store – Ravenna Gardens in U Village

Tasks

- Add a plant to Plantr
- Water a plant after receiving a care reminder
- Diagnose a plant's ailment when something is wrong

Procedure

- Introduce computer, facilitator, note-taker
- Give tasks
- Go over questions and feedback from participants

Test Measures

- Verbal & visual feedback from participant
- Time to complete a task or action

TESTINGRESULTS

- Wording of reminders
- Inputting care information on 'Add a New Plant' screen
- Finding an expert
- Scrolling

INTERFACE CHANGES

Bell 4:20 PM

Back New Plant Done

BASIC

Nickname: Jonny

Species: IKEA Cactus >

Location: Living room

CARING PARAMETER

WATER: >

LIGHT: >

TEMPERATURE: >



Bell 4:20 PM

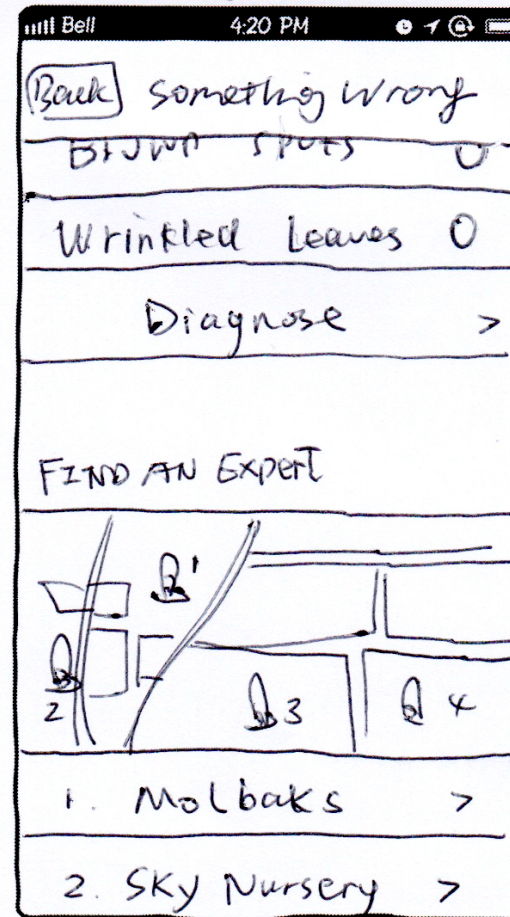
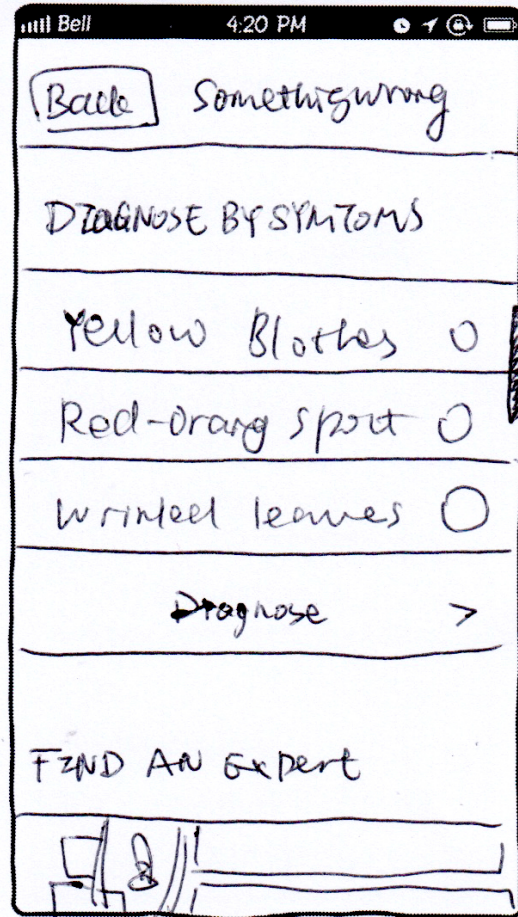
HIGH LIGHT

MIDDLE LIGHT

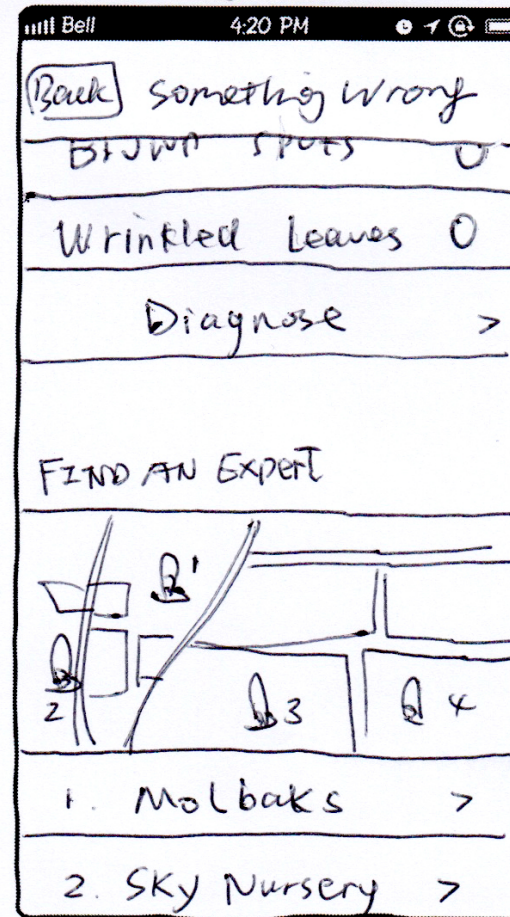
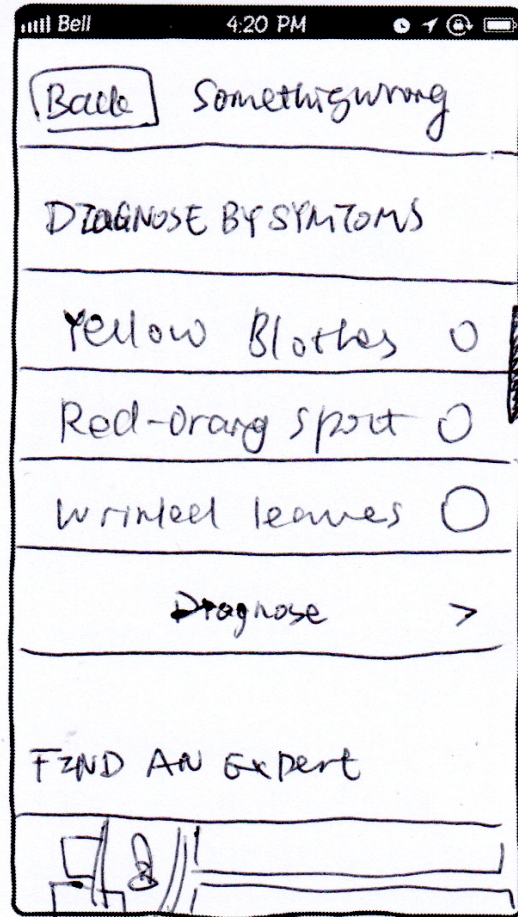
LOW LIGHT

CANCEL

INTERFACE CHANGES



INTERFACE CHANGES



LESSONSLEARNED

- Participants liked seeing plants talking and showing emotion with facial expressions
- Users want to be offered more than one way of doing something – custom care parameters
- Simpler interfaces are better – ‘Find an Expert’
- Paper prototypes have limitations - scrolling



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