

PLANTR SENSING YOUR PLANTS

J E N J I A N F E N Z H A N G , J O R Y R I C E , P A U L B A R T E L L , W H I T N E Y S C H M I D T .



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HOW TO TAKE CARE OF THE INDOOR PLANTS?



CARE INFORMATION

Offer care information for all types of indoor plants using proper indoor plants database in order to give people knowledge of how to taking care of their plants.

SENSING TEAHNOLOGY

Humidity/light/temperature sensors inserted into the plants' earth to measure the humidity/lighting.

SOMETHING IS WRONG

Diagnosis and find an expert for the sick plants.

ANTHROPOMORPHISM

Intelligent plants act like human interacting with people.



P R E S E N T A T I O N O V E R V I E W

THREE TASKS

DESIGN ITERATION

INTERFACE DESCRIPTION

INTERACTIVE PROTOTYPE DEMO

SUMMARY

THREE TASKS





WHY THIS TASK

Offer care information for all types of indoor plants using proper indoor plants database in order to give people knowledge of how to taking care of their plants.

TASK DESCRIPTION

1 Care Information

Jack has just purchased a cactus from IKEA. He wants to know some basic care information for his cactus.

2 Connect to the sensor

Jack adds his new cactus on his Plantr and connect to the sensor in the pot.



WHY THIS TASK

People tend to forget to water their plants. Plantr will send user message if their plants need something.

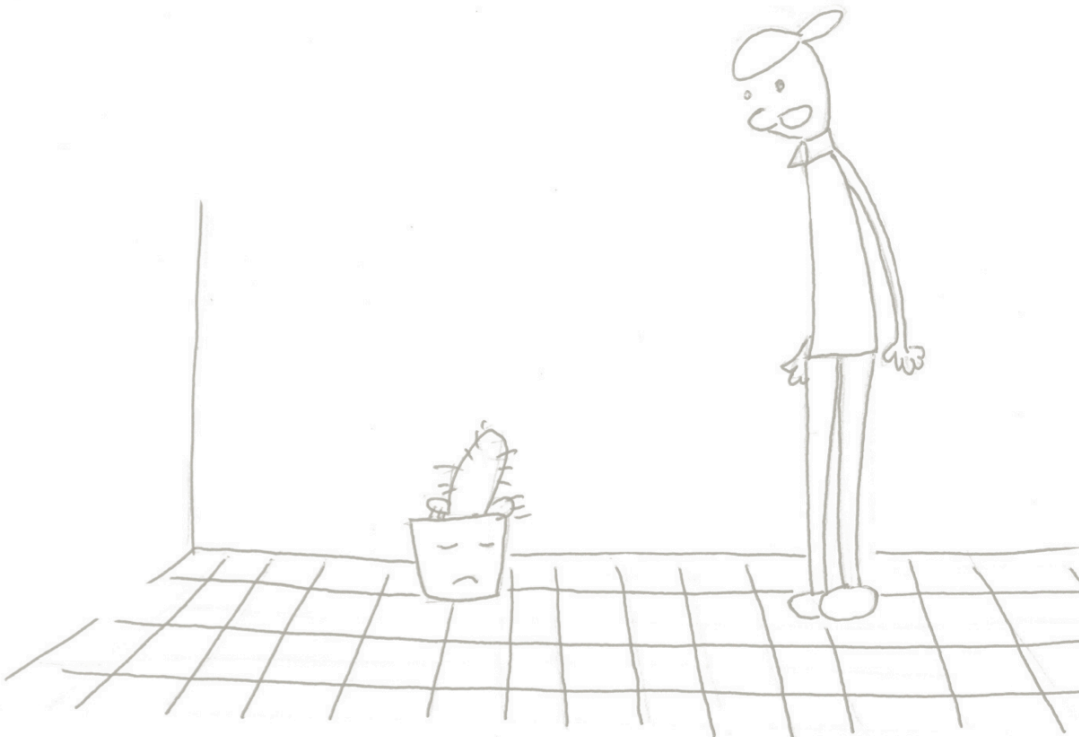
TASK DESCRIPTION

1 Reminder

When Jack passes by his plant, if the plant need water, Jack will receive a message.

2 Water the Plant

After Jack waters the plant who needs water, the plant will send 'Thanks' message to Jack.



WHY THIS TASK

Lots of people don't know what to do if their plants are with something wrong. Plantr can help user to take care of the plants even when they have something wrong.

TASK DESCRIPTION

1 Check Plant Condition

Jack can check the temperature, PH and other related condition of his plant if Jack find something is wrong.

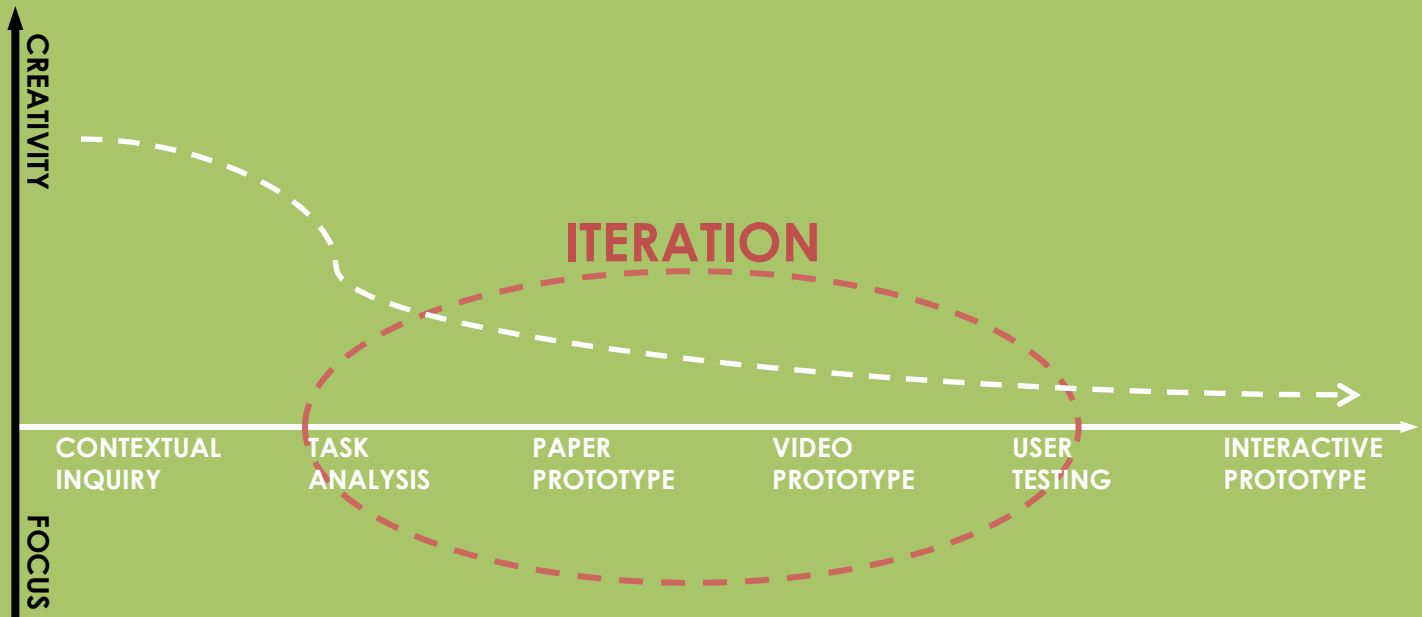
2 Diagnosis & Find an Expert

Jack can ask for help by diagnosing his plant according to the symptoms or call an expert for help.

DESIGN ITERATION



DESIGN ITERATION





Lyla-Living Room

'Johnny! I need water! So thisty! T T'



Photos



Camera



Safari



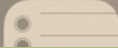
Settings



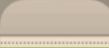
App Store



Clock



Reminders



Notes



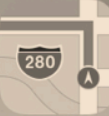
Calendar



Calculator



Weather



Maps



Newsstand



FaceTime



Passbook



Stocks



John! I am so thirsty! Give me some water.



Lyla

Living Room
4 mins ago

John, I really need some water today! U should remember that. OK? Or I will remind you when you passed by! ;)

TOMMOROW



MIKE

You need to water me these days! :)



HOME



SCHEDULE



MY PLANTS

Plantr

No SIM

8:03 PM



Settings

My Plants

Add

INTERFACE DESCRIPTION

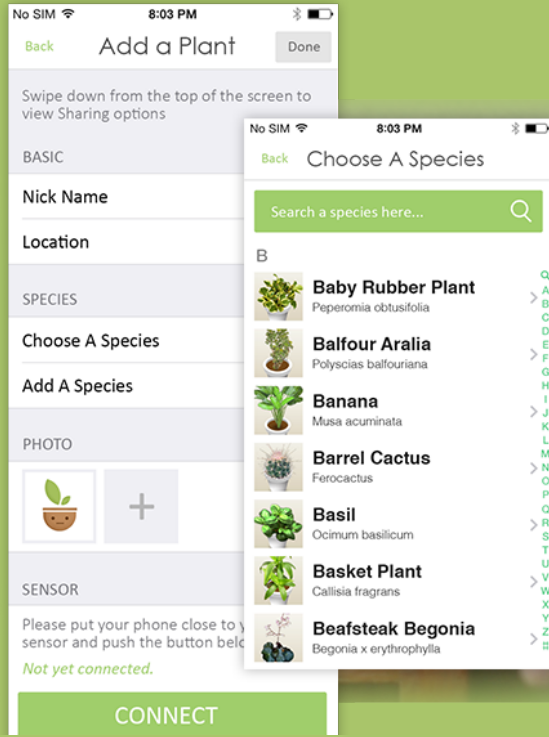


SOCIAL INTERACTION

Plantr allow **plants talking with each other** according to their own conditions.

When user buy a new plant and put it among other plants. Other plants will **come to say hi and welcome the new member.**

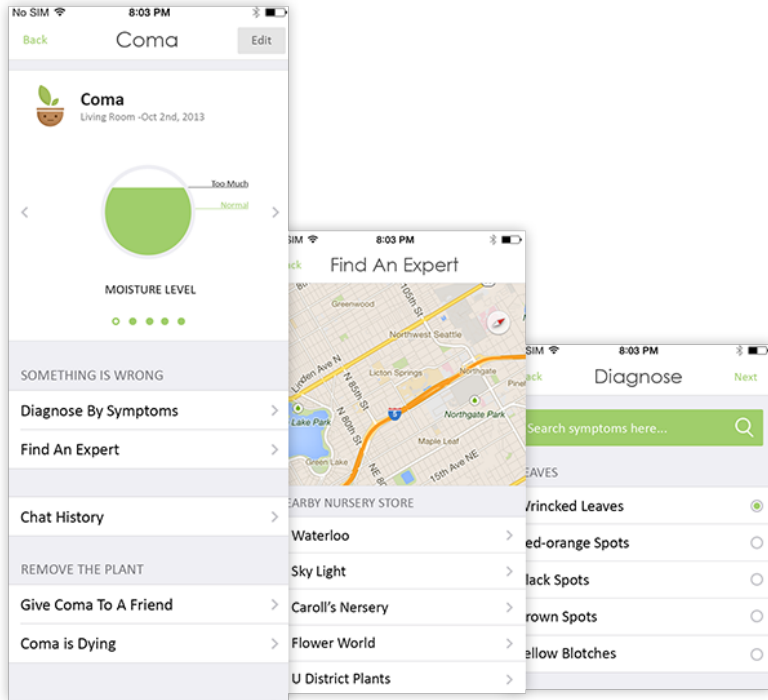
User's plants can talk about **their feelings and express happiness, sadness and other emotions** to user.



ADD A NEW PLANT

Plantr offer **database for the indoor plants** care information. After user add a plant, Plantr can automatically generate care schedule for certain plants.

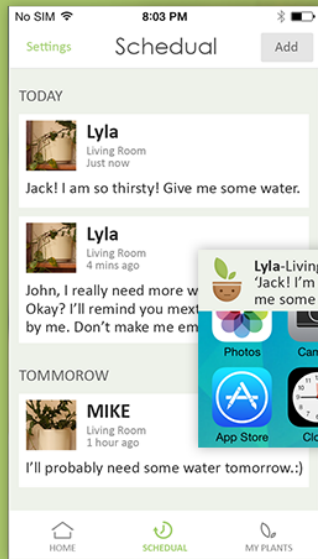
Press 'add' button on the top and go to the 'add a plant' page. Then input some basic information, choose a species and **connect to the sensor**. Then press 'Done' on the top. The plant will be on the 'My plants' list.



SOMETHING IS WRONG

Plantr can help user to take care of the plants even when they have something wrong.

User can press the plants to **check the water supply, PH, temperature and light condition** and let user know what's wrong. User can **diagnose the problem** using Plantr and can even use it **find a nearby nursery store** and ask for their help.

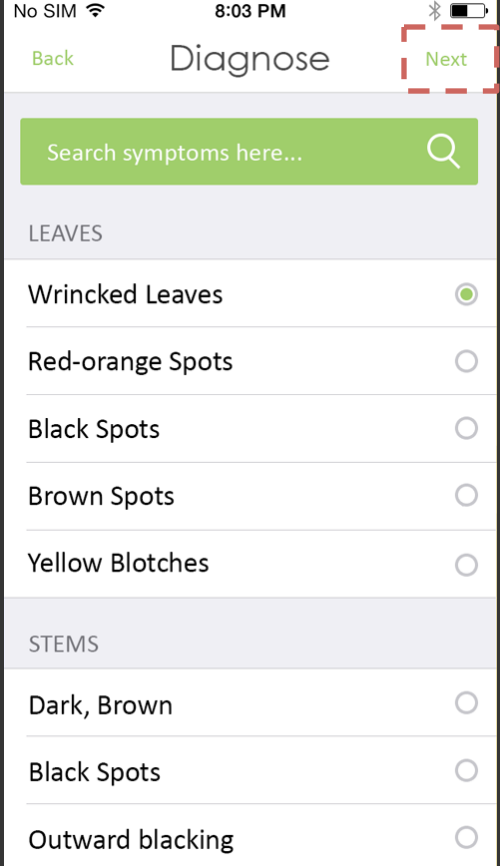
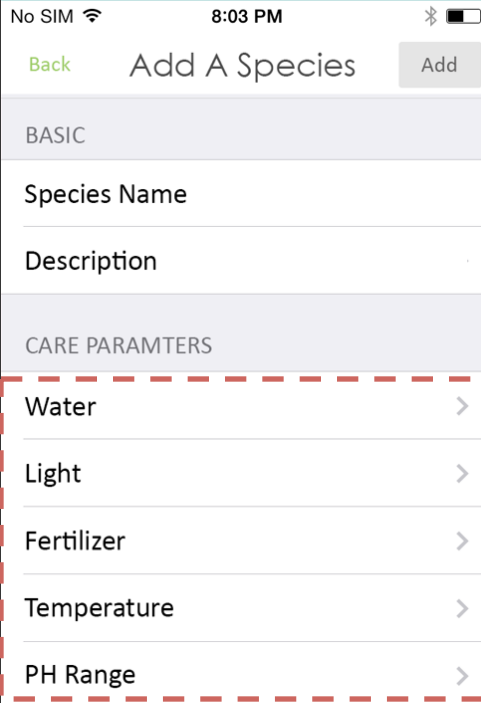
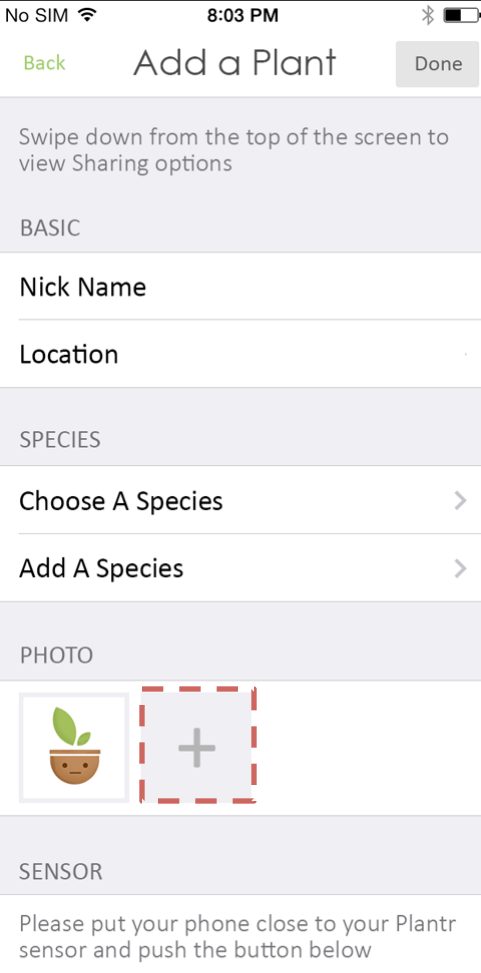


REMINDER

Plantr will **send user messages** if their plants need something.

When **user passes by the plants** and they will send user message that 'Hi, Jack! I am super thirsty! Please give me some water.TT'

INTERFACE NOT YET IMPLEMENTED



INTERACTIVE PROTOTYPE DEMO <http://courses.cs.washington.edu/courses/cse440/13au/projects/plant/>



SUMMARY

CONTRIBUTION

We add a **social network for plants** which makes the whole plants care more interesting;

We add a feature that can help people when they find **something wrong with their plants**;

We come out with an idea that create a **database which generate the care information** automatically and send people reminder message for better plants care;

NEXT STEP

Hardware for realization of Plantr;

Refine the user experience design;

Do further user study;

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