

Project 1

Branded green plant based on virtual interaction

TinyGreen

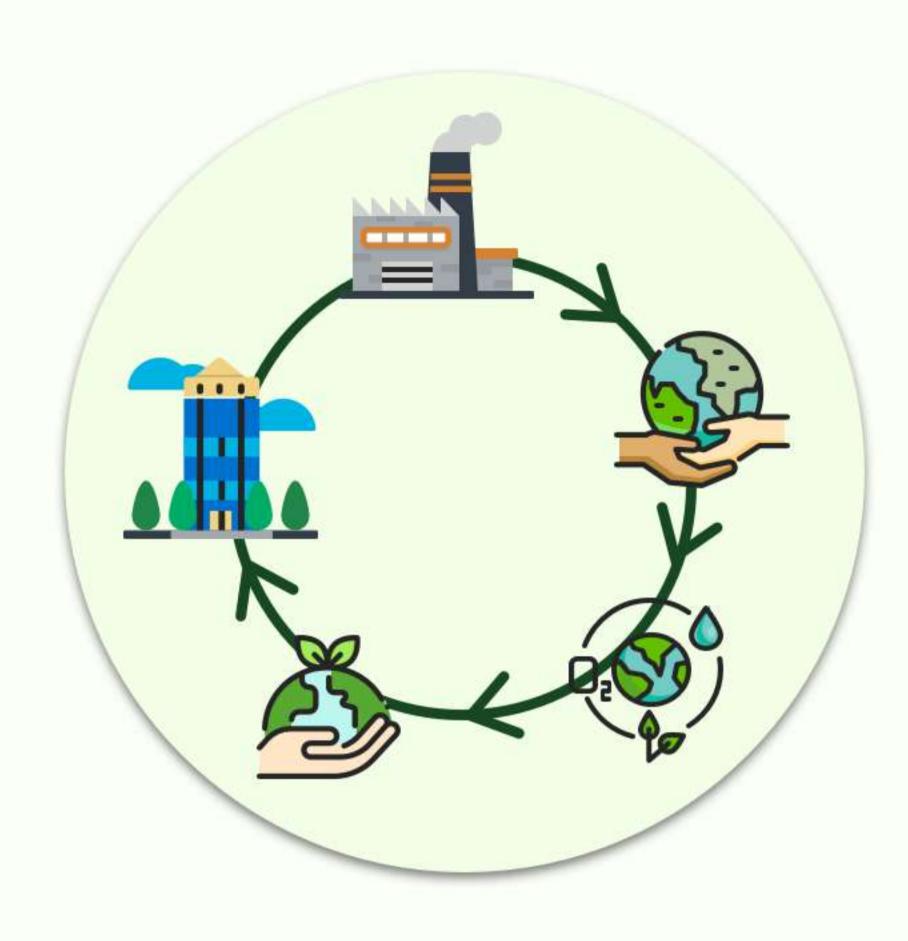
Research	Ideation	User Testing	Final Design
Background Research	Concept	Objective	App Design
Survey	Experience Flowchart	Participant	User Journey
Market Research	Value Framework	Findings	
Interview& Persona	Process Optimization		

TinyGreen hopes to use virtual interaction to connect plants and the Internet. It will enhance the plant raising experience of young people and let more people start to raise plants and protect the environment.

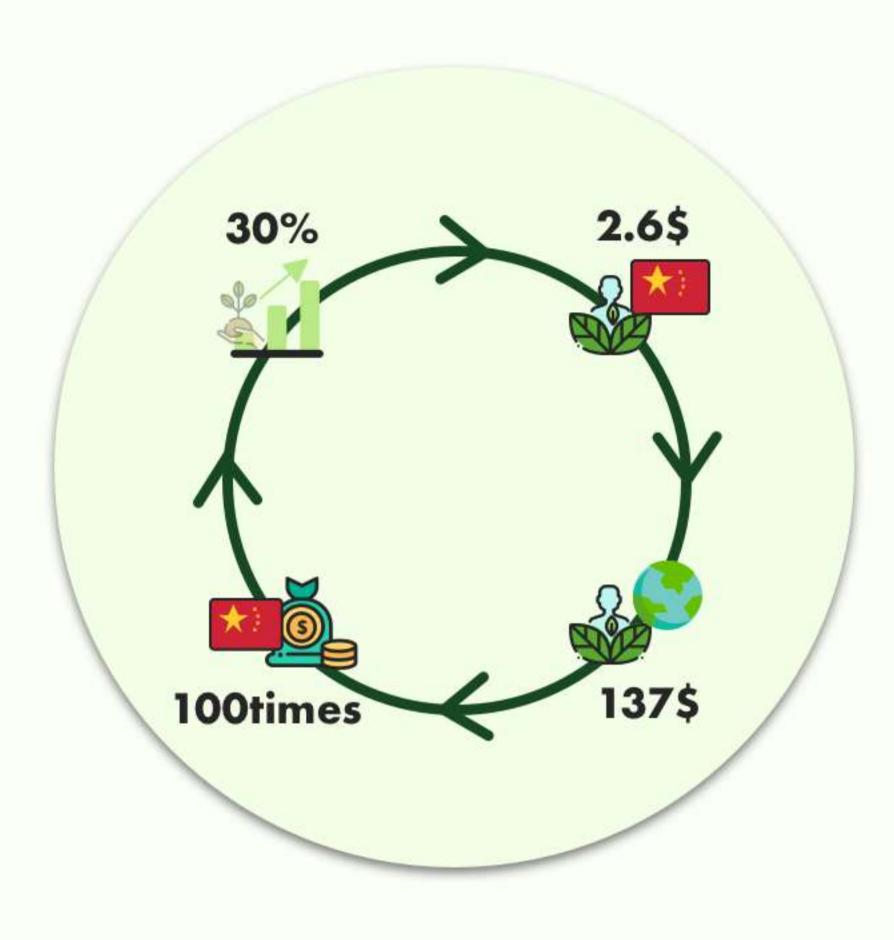
Teamwork- Project leader

BACKGROUND RESEARCH

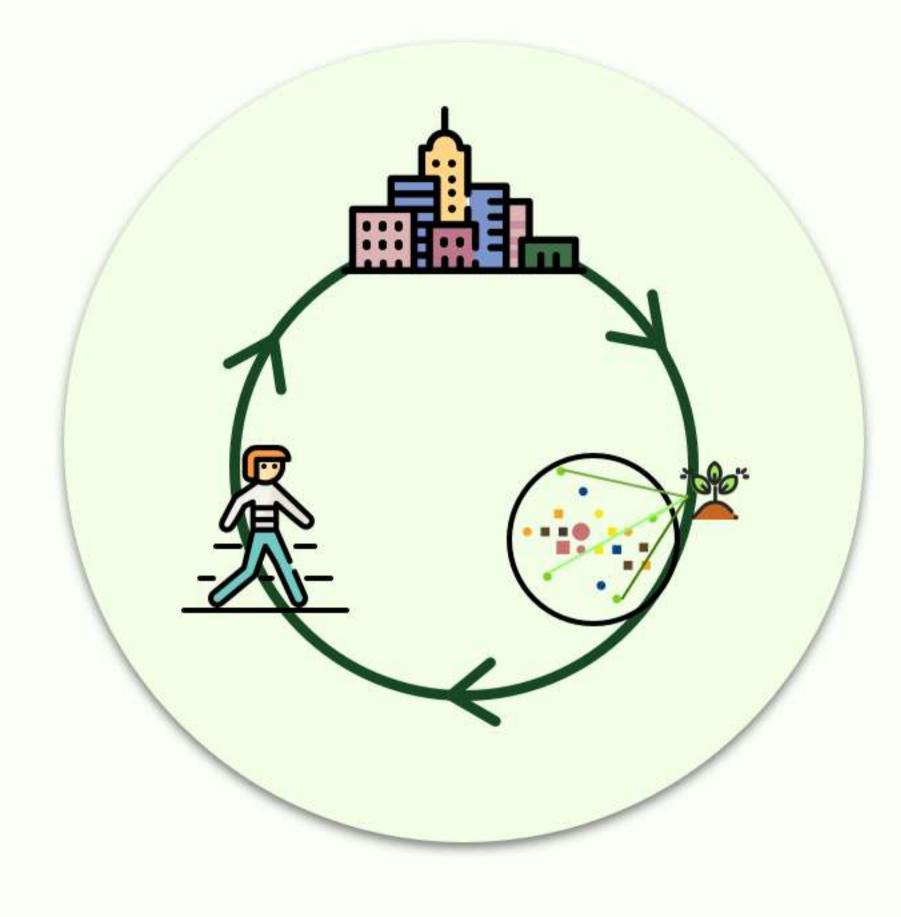
-PLANT MARKET



Urban development has led to a decline in plants, fewer opportunities for young people to access plants.



The growth of annual spend on plants in China is 30% while per capita spending is merely 2.6\$. Comparing with international average 137\$, there is still 100 times space of growth.



The plant market is shrinking and mostly restrained in suburbs. It takes a long time to purchase green plants.

The need to upgrade the purchase process; the reduction of urban plants; China's per capita flower consumption accounted for 1.89% of the world's average flower consumption level, which indicates that there is still 100 times more room for growth in this industry.

BACKGROUND RESEARCH —IOT&PLANT



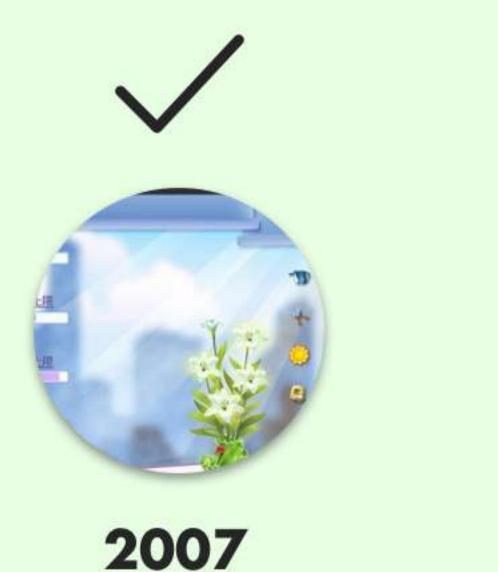


With the development of the Internet of Things, more and more devices and items are connected to the Internet. So connecting plants to the network will make plants more intelligent, intertesting, and vivid.



BACKGROUND RESEARCH

-INTERACTIVE MODE UPGRADE



Flower vine

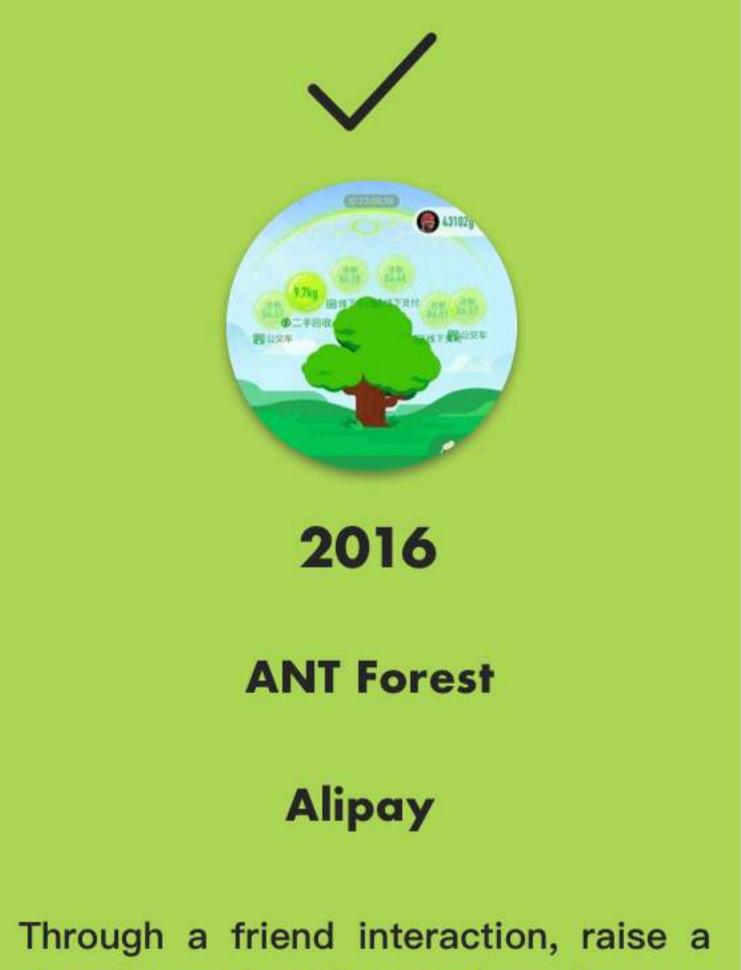
Tencent

Promote "virtual plant" growth through mutual interactions between friends.

+Human interaction

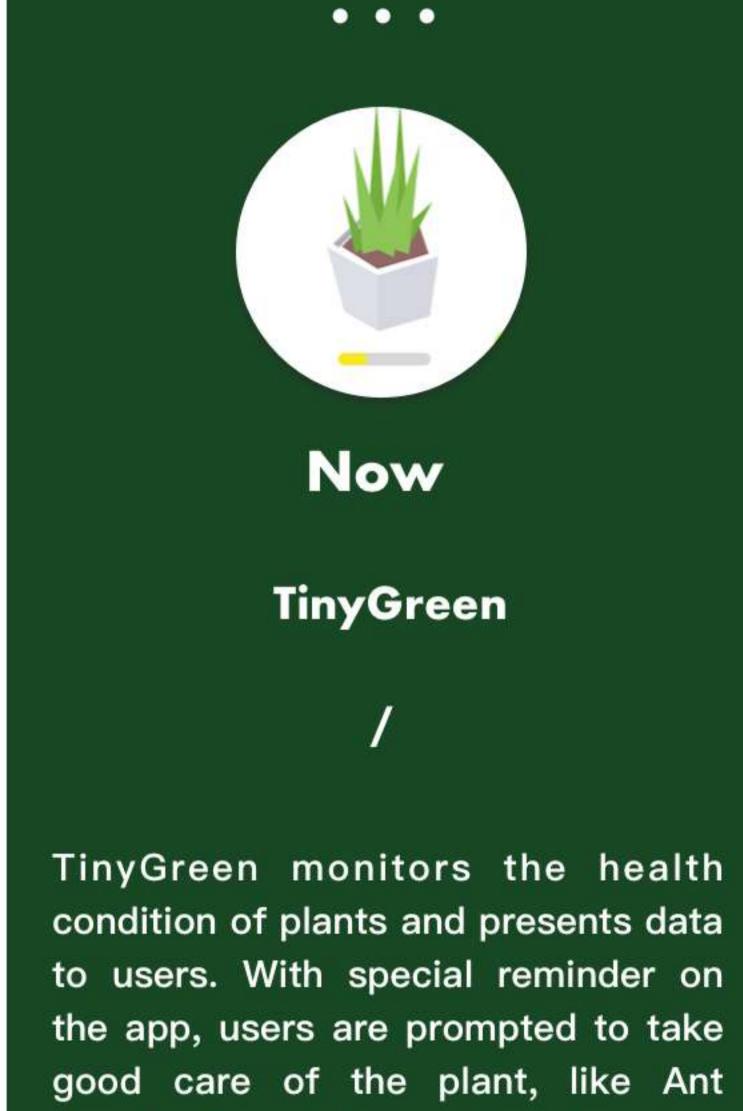






Through a friend interaction, raise a virtual tree in Alipay. When the tree grows up, the nonprofit organization can "buy" the virtual "tree" planted by the user in the ant forest, thereby planting a solid tree in reality.









also engages users.



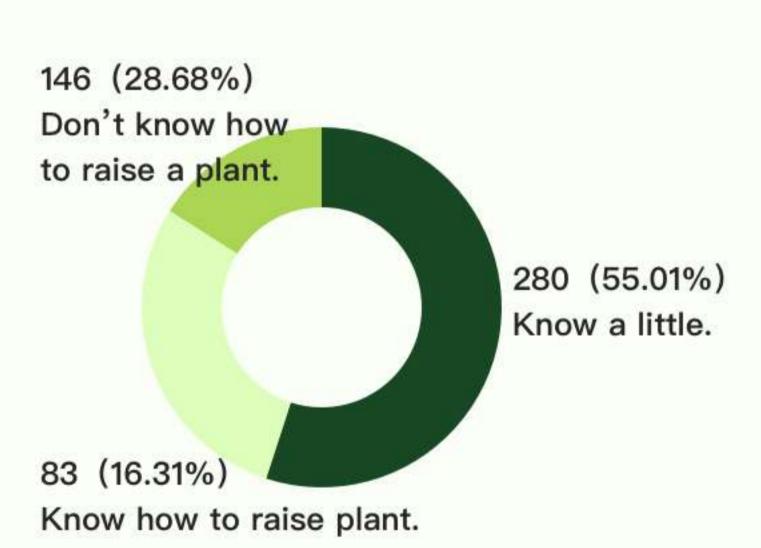


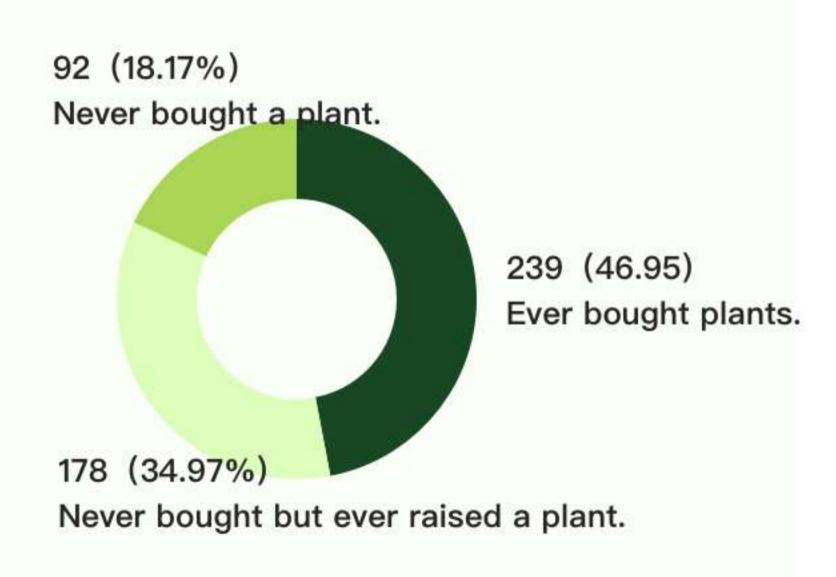
+Interaction of the IOT

Forest, funny interactive function

SURVEY — PLANTING EXPERIENCE OF THE YOUTH

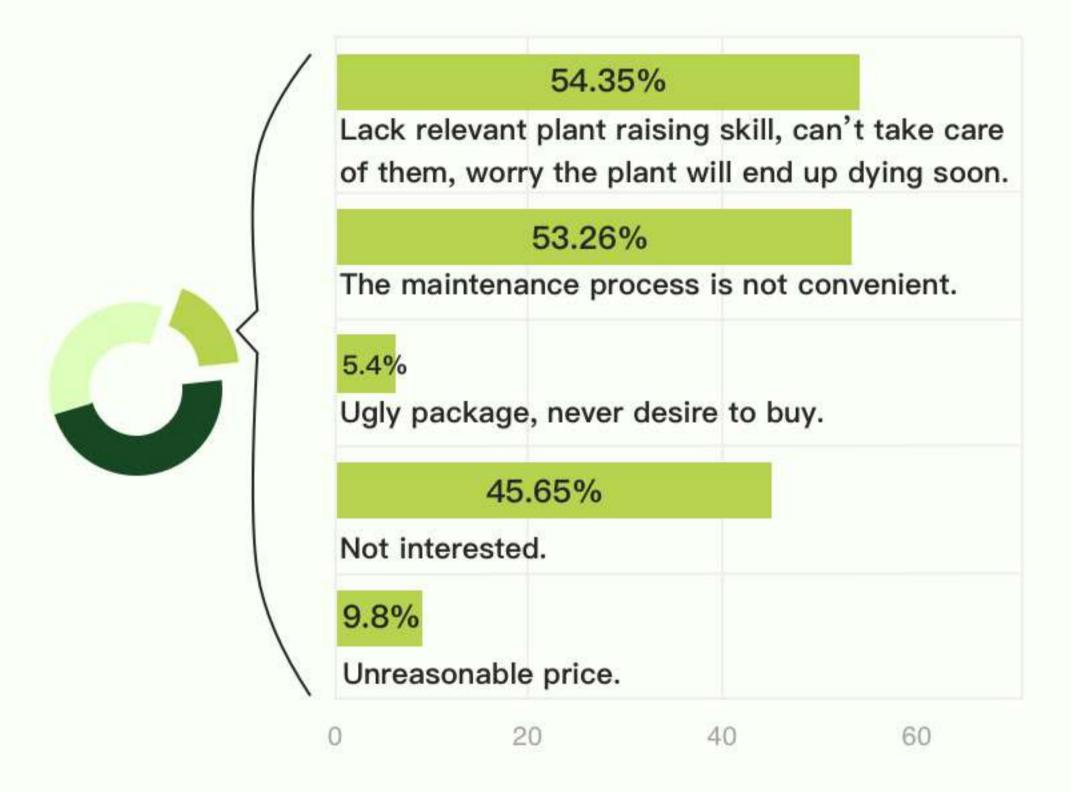






- Most people have a tendency to buy green plants, but many of them lack raising skills.

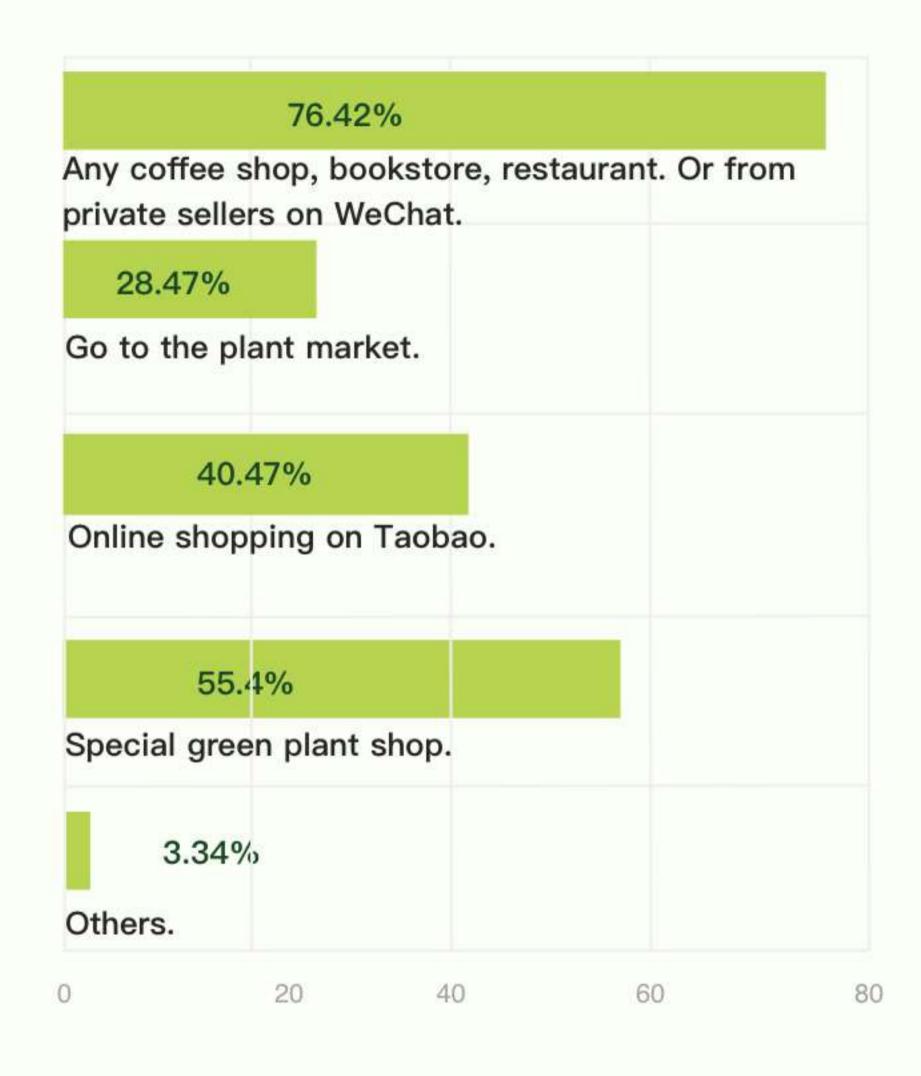
why do they refuse to buy plants?



- -1.Lack skills and knowledge for care.
- -2.too troublesome to raise a plant.

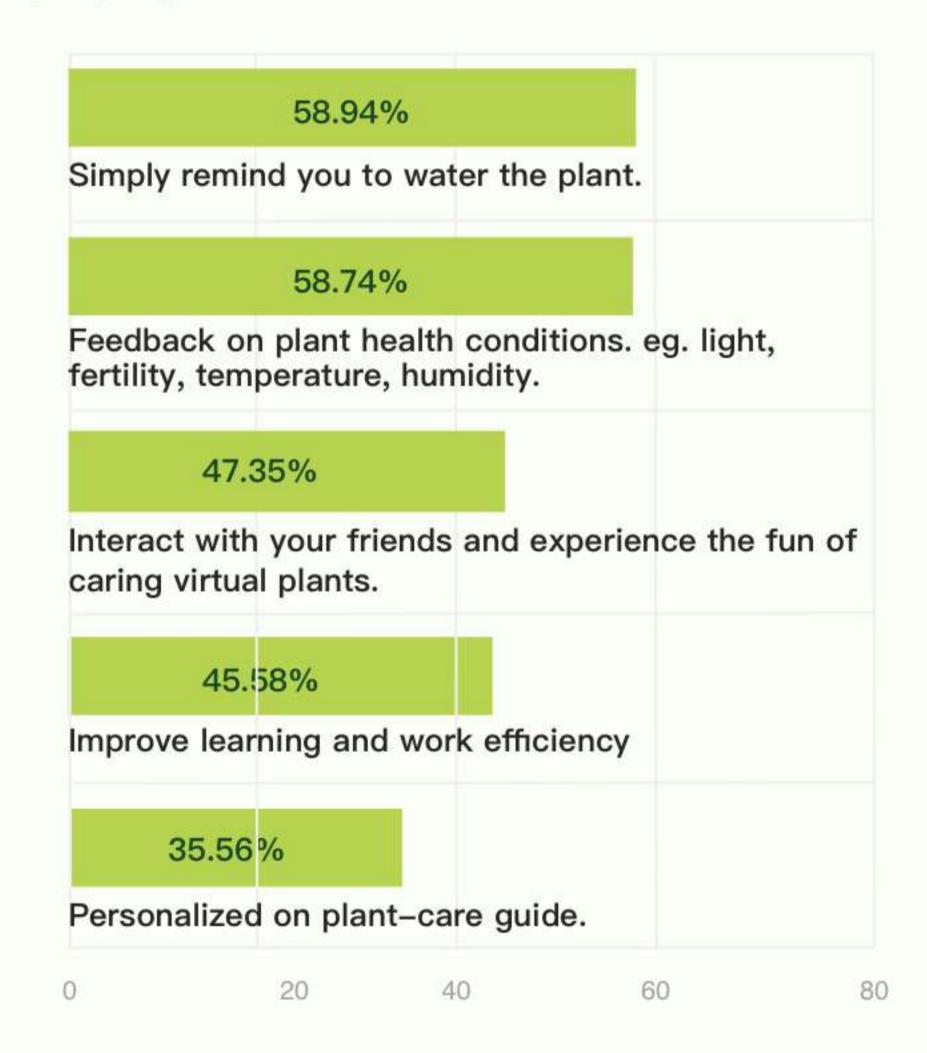
SURVEY — PLANTING EXPERIENCE OF THE YOUTH

Where do people wish to buy plants?



- From the perspective of share economy, selling plants in different scenarios not only maximizes the utilization of existing resources, but also optimizes the purchasing process for users.

How do people expect virtual plant (app) to function?

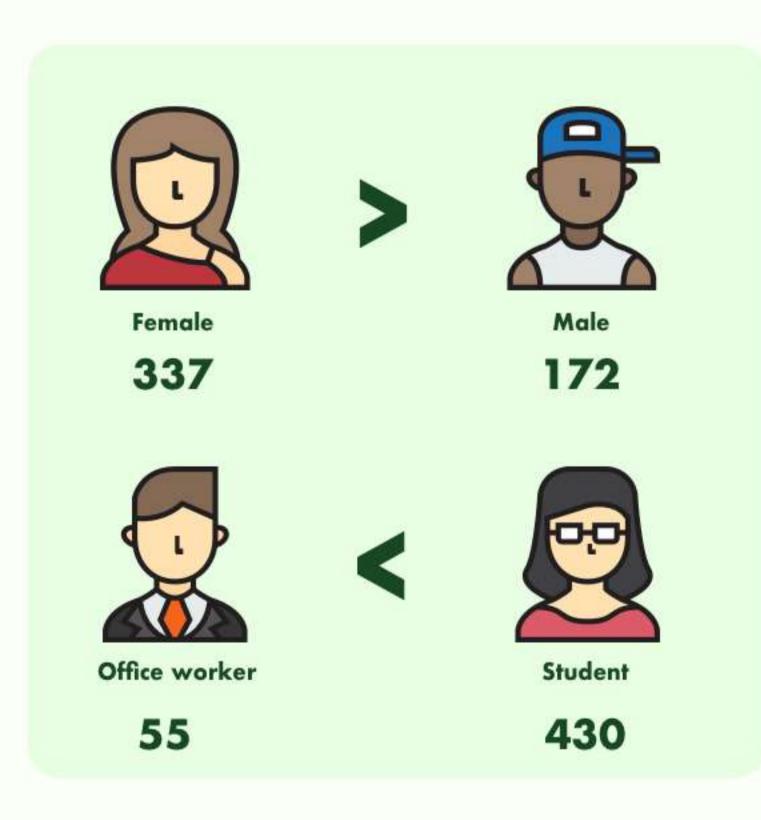


-Remind users to maintain, feedback relevant data, interact with friends will be the main function of virtual plants.

SURVEY

CONCLUSION

82% OF RESPONDENTS HAVE RAISED PLANTS.



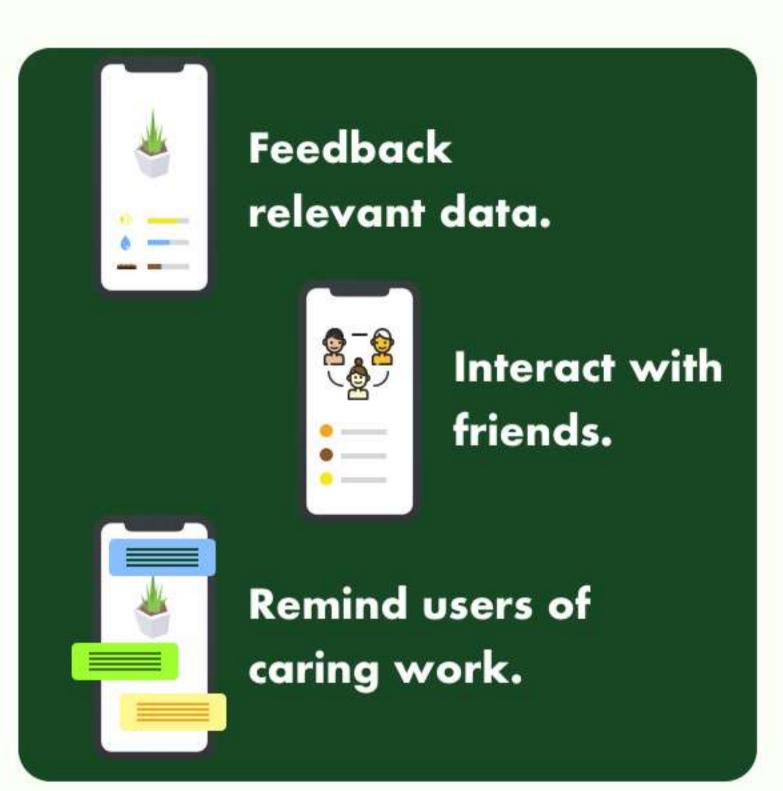
THE MAIN REASON FOR NOT BUYING PLANTS.



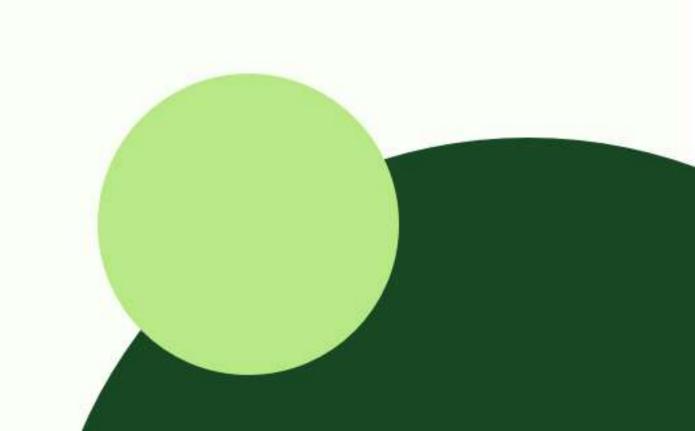
CONSUMERS WANT PRODUCTS TO BE ...



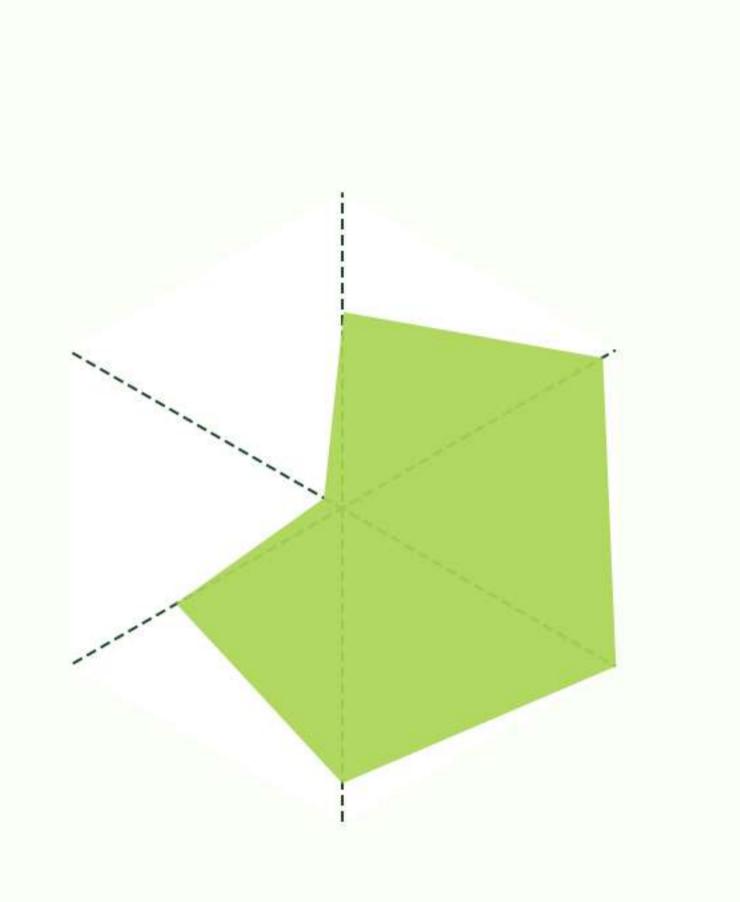
THE MAIN FUNCTION OF **VIRTUAL PALNTS**



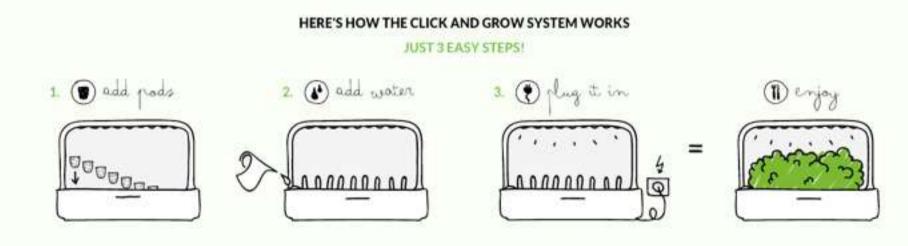




MARKET RESEARCH



Click&Grow



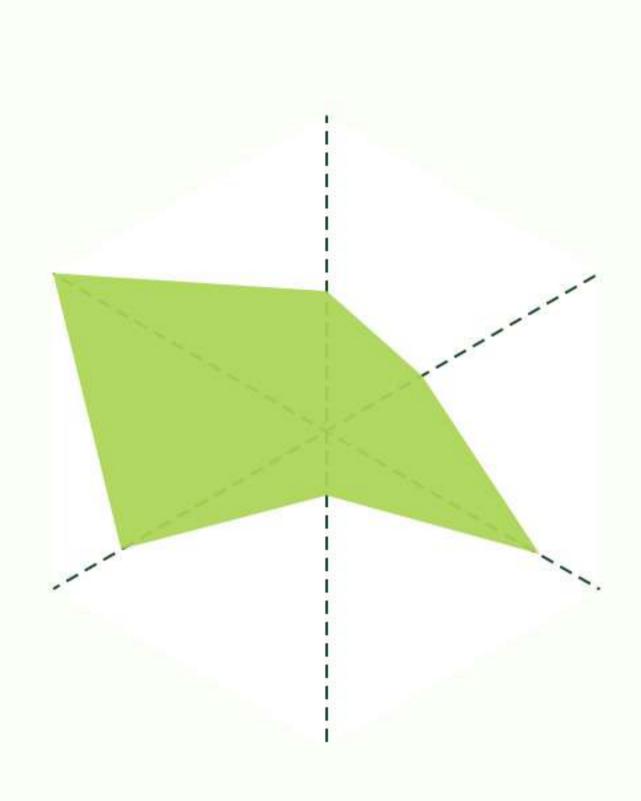
The Smart Garden 3 takes care of your plants automatically by making sure they have enough water, light and nutrients at all times.



TinyGreen



TinyGreen combines sensors, seeds, virtual plants with precise maintenance tips which brings better user experience.



Flower care

Easy three-step easy to use







The flowers and plants monitors can "talk" to plants, help you accurately convey the care of each pot of flowers in your home, and get the right water nutrients and the temperature of the flowers. It is simple to raise flowers.

INTERVIEW

Participant











College Student

Objectives

I mainly want to know....

1.The deep reason why college students buy or not buy plants.
2.If a professional plant raising app is offered, how do they wish it to function?

Findings

- College students lack companionship, they expect emotional support, and they need to purify the air.
 - 2. College students need accurate and timely plant care guidelines. And their purchasing power is weak.
 - 3. Hope to interact with plants, plants are like pets.

NanQin

Age:

Occupation:
Student



Introduction

Nan loves life and nature. She lives in a dormitory with five other students, so she always feel the air quality in the dormitory is very poor. But she can't afford an air purifier, so plant is a good substitute. She thinks that raising a pot of plants is also a spiritual sustenance.however, she also worries that she can't take good care of the plants."

PERSONA

Feature

love plants and raised plants before. But lack of plant care skills. Limited spending power.

PainPoint

Lack of plant care skills, fear of plant death. The air quality in the living environment is not good.

Expectiation

Purify dormitory air, pet-like plant.

INTERVIEW

Participant











Office worker

Objectives

I mainly want to know....

1.The deep reason why college students buy or not buy plants.
2.If a professional plant raising app is offered, how do they wish it to function?

Findings

- Office workers need to alleviate visual fatigue and pass boring time with vividly decorated working environment.
- 2. Office workers believe that the process of purchasing plants is too time consuming. And they lack plant care skills.
- 3. Office workers expect the app to remind them plant care tips timely and interact with friends.

Alex

Age:
25
Occupation:
Programmer



Introduction

Alex has been working in Beijing for three years. The time he spent in the company is longer than at home. His usual work is repetitious and boring sometimes. Everyday he stares at computers for hours, he really hopes to improve the quality of the air, relieve visual fatigue and pass the boring time. Sometimes he wants to buy potted plants in the office but Considering the inconvenience to purchase, and his lack of plant care skill, he just let go of the idea.

PERSONA

Feature

Too busy to intentionally go somewhere to select plants; Lack of plant care skills.

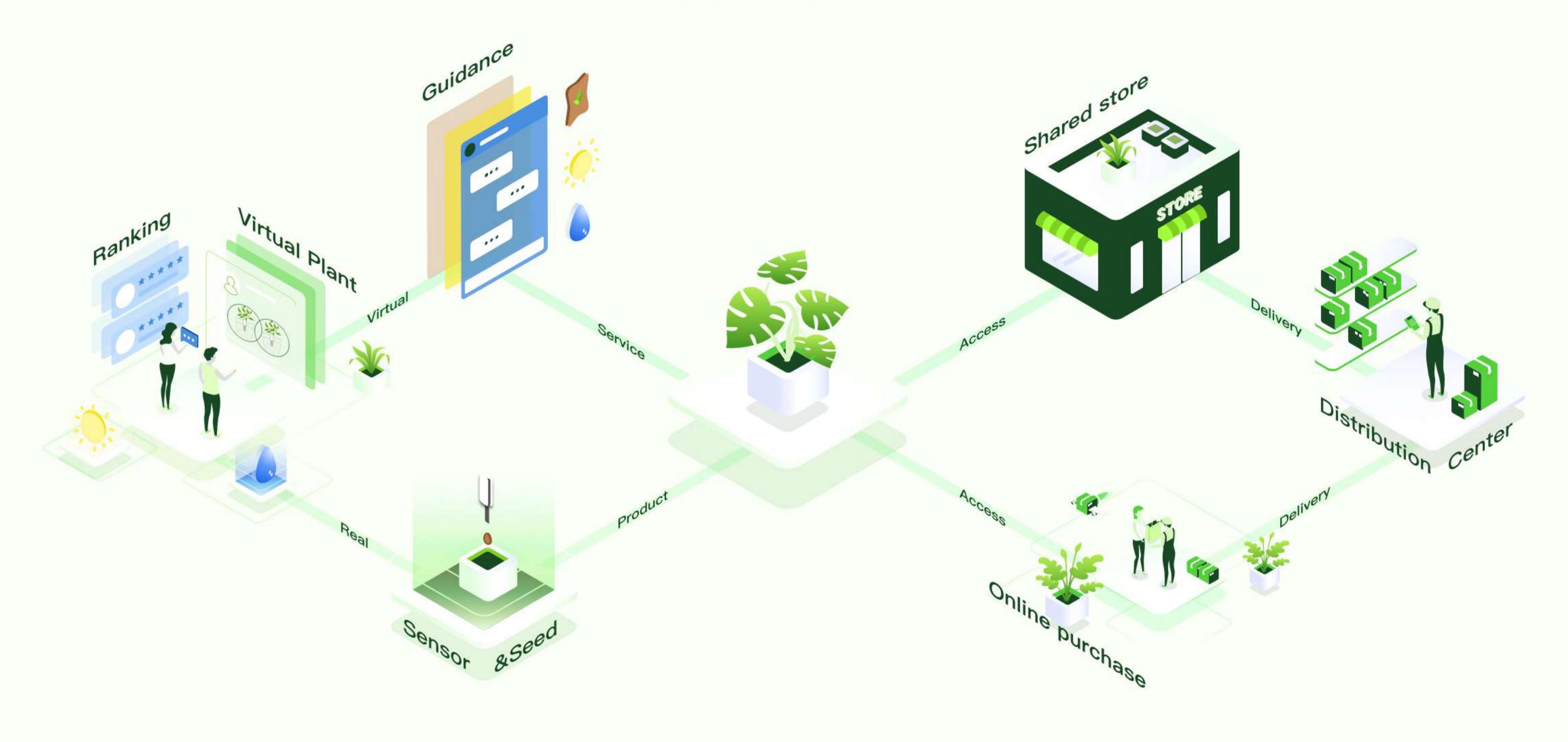
PainPoint

Too busy to buy plants; Lack of plant care skills; Need to relieve visual fatigue.

Expectiation

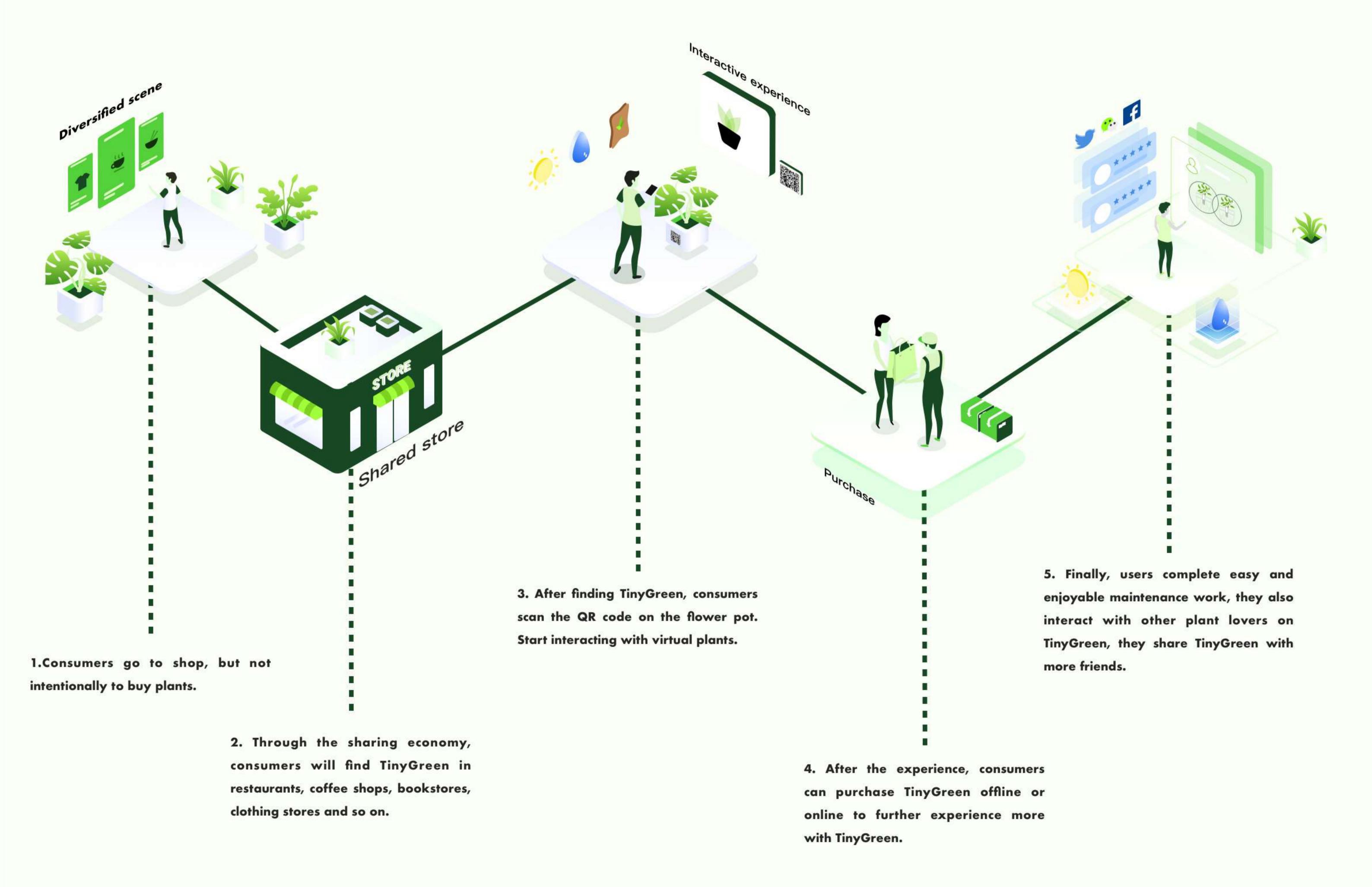
Interesting experience to kill boring time; Relieve visual fatigue.

CONCEPT

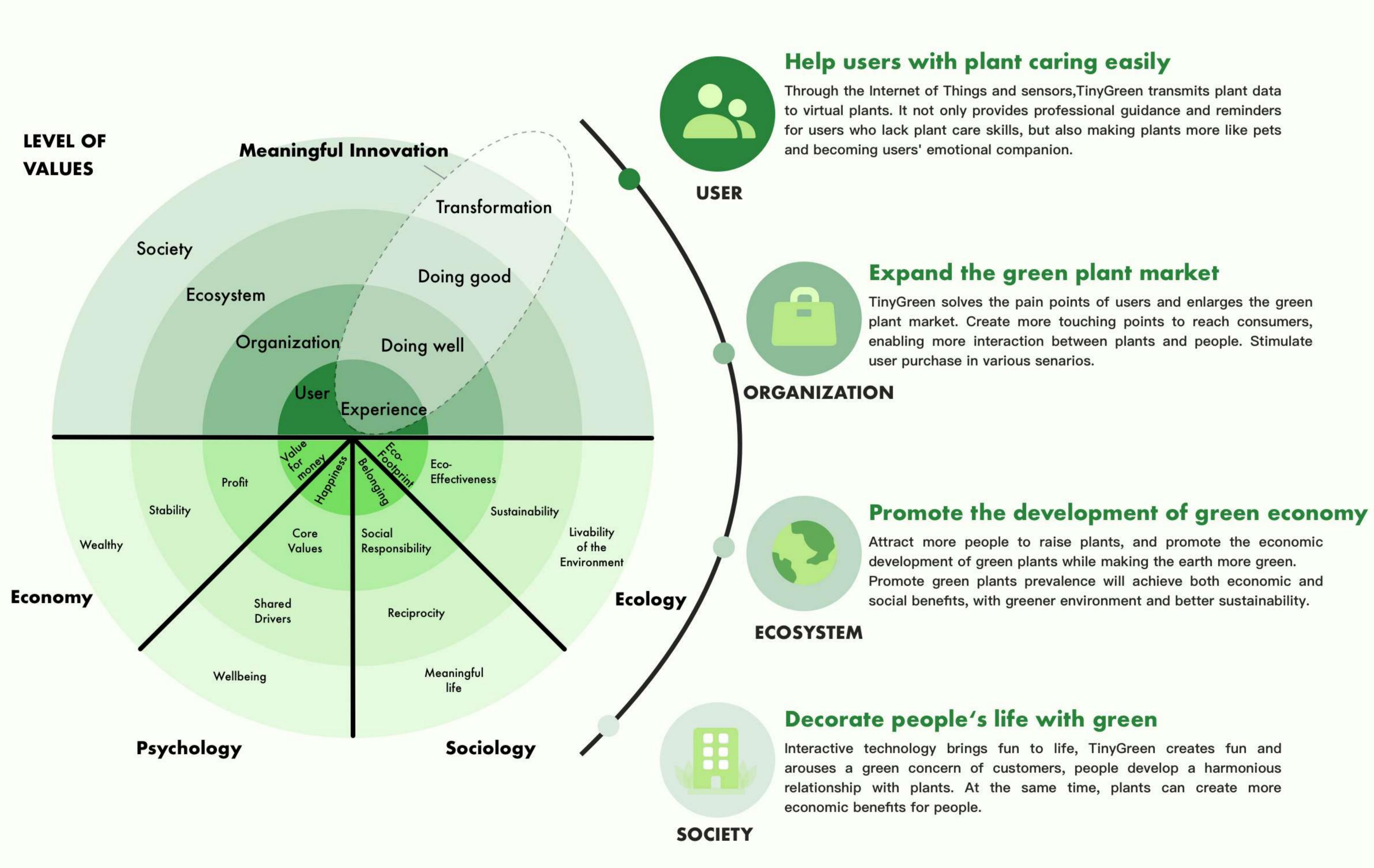


TinyGreen will be more than just a plant, it is more like a smart pet. Connecting the plants and the virtual plants on the APP with the sensor will not only help you to raise your plant more easily, but also can bring you interesting interactions with plants and friends. Consumers can buy TinyGreen everywhere, we will cooperate with various stores like cafes, bookshops, restaurants by providing TinyGreen plants for decoration in those places so as to better reach our consumers.

EXPERIENCE FLOWCHART



VALUE FRAMEWORK



PURCHASE PROCESS OPTIMIZATION

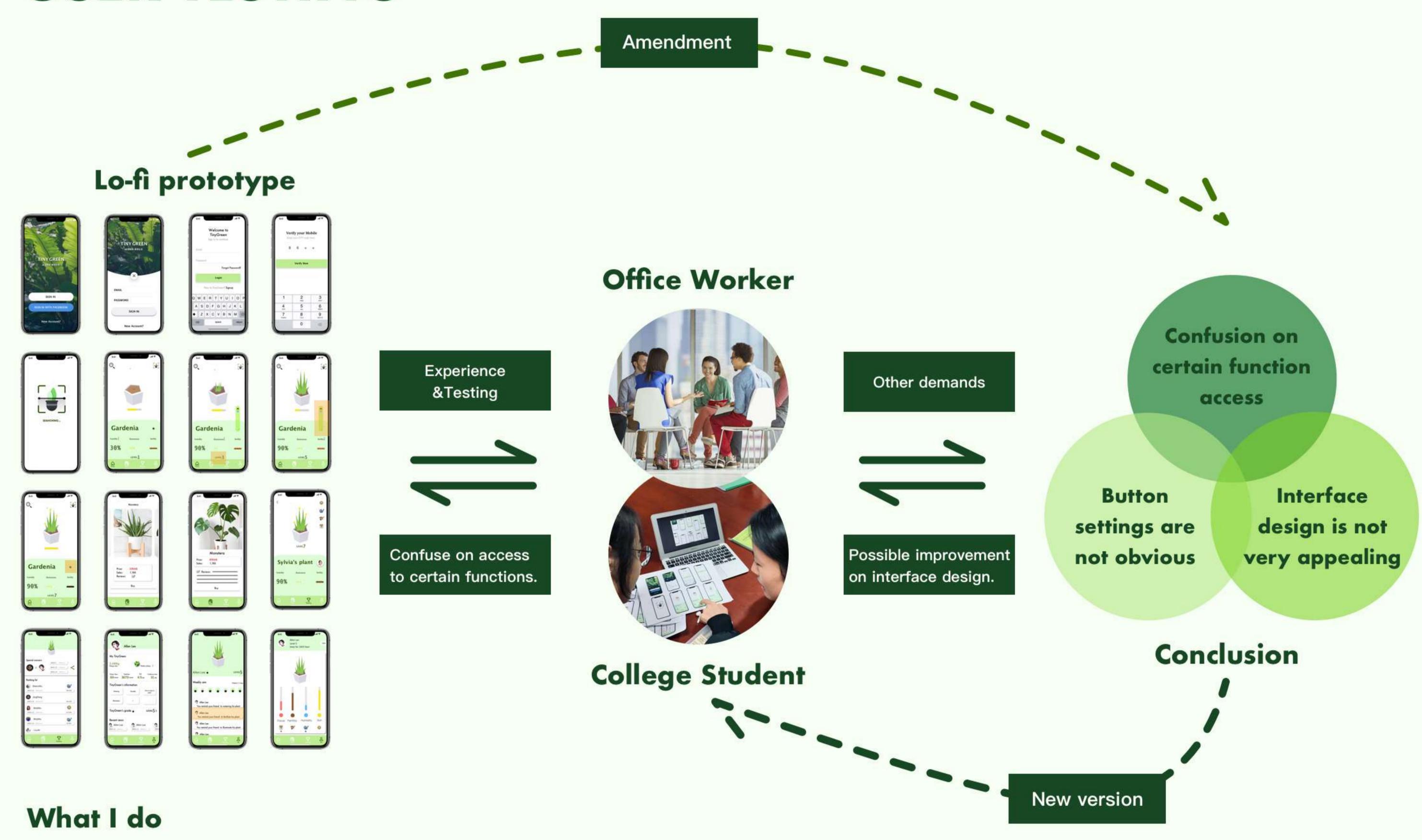
BEFORE

Experience

0



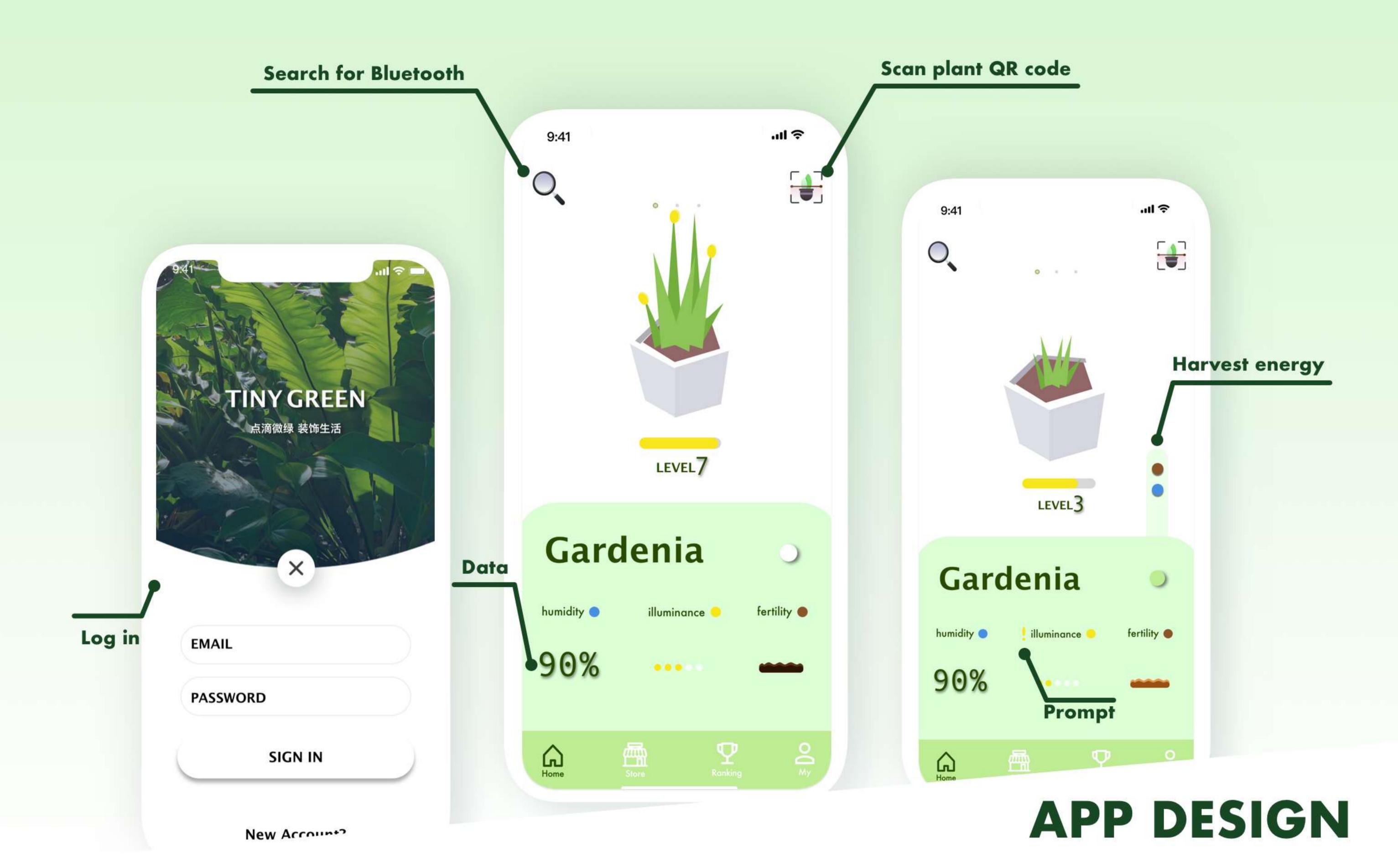
USER TESTING



I conducted user test of two target groups to find out the defects of the original low-fidelity prototype, and identified some common user concerns. Taking the precious user feedback, I made some improvements and tested the new version again to ensure a high level customer satisfaction.

TinyGreen

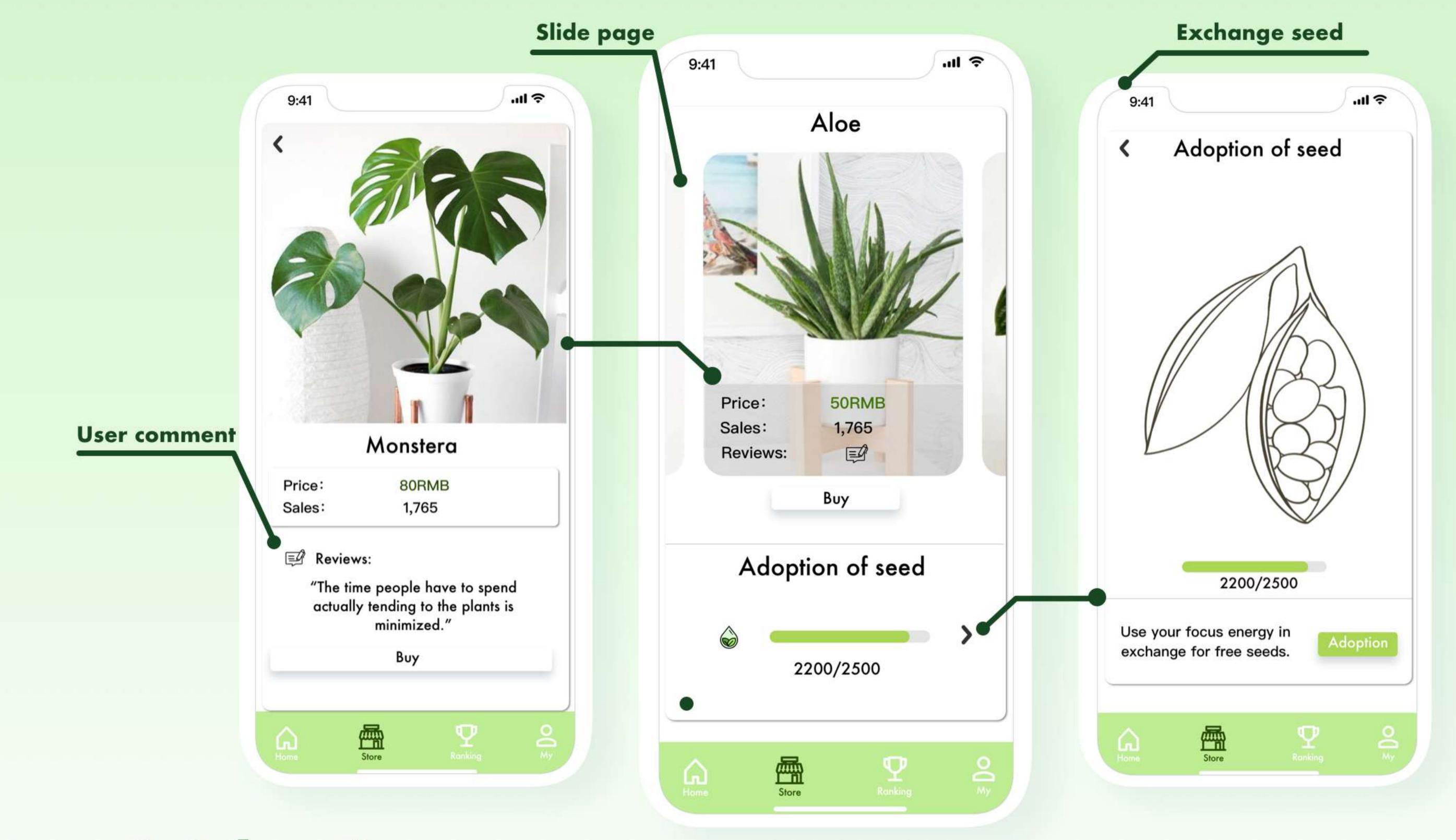
"Raising plants, decorating life."





Ranking&Me

TinyGreen enables users to interact with other plant owners by reminding them to water, accumulate energy and accept rewards of good plant care work.



Store&Adoption

Users can buy plants on TinyGreen, and also exchange real plant seeds by collecting green energy.

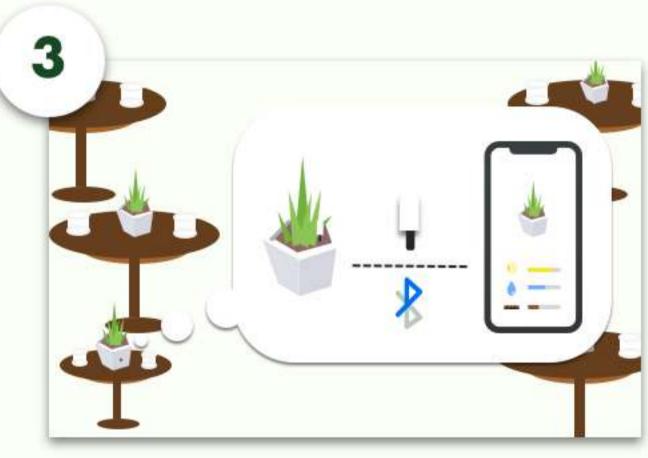
STORYBOARD



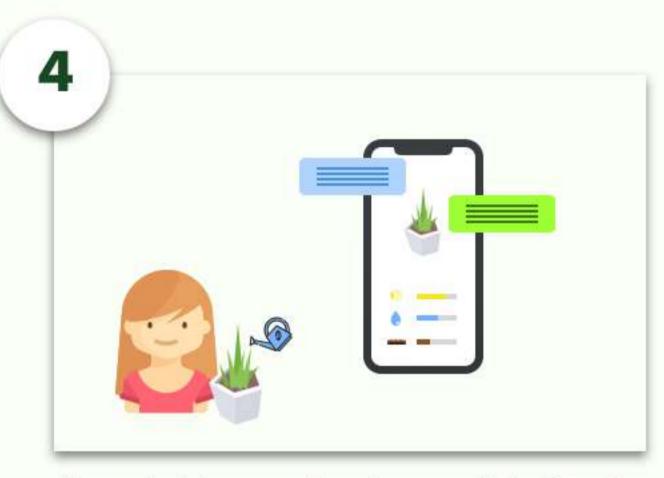
When I was young, I raised a plant. But without specific skills, it died soon. So I stopped trying to grow plants.



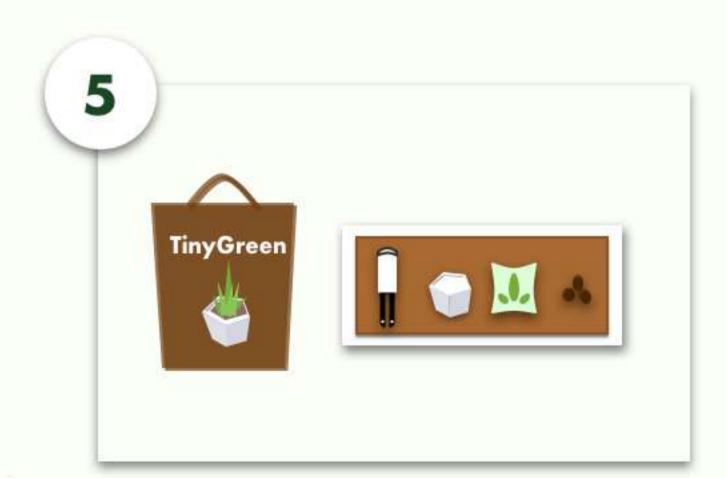
As I grow up, I really hope to re-grow plants, but I always worry that I will kill plants again, until I found the small potted plant in the coffee shop...



I found these plants named TinyGreen. Through Bluetooth and sensor, TinyGreen transmits the data of the plant to the phone, with corresponding image of virtual plant.



After obtaining specific data on light intensity, humidity, soil fertility, the app will send a reminder to the user to care the plant. So I can use fragmentary time to complete the plant caring process easily.



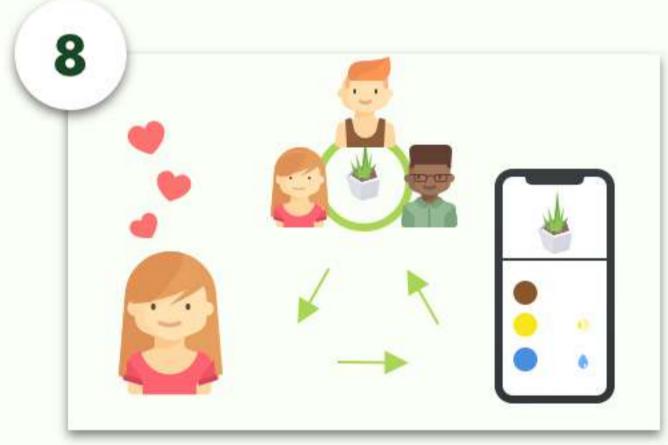
After knowing the whole mechanism, I bought a TinyGreen product in the coffee shop. It contains pots, seeds, sensors, and fertilizer packs. Just like a gift!



Later, I found TinyGreen in shopping malls, bookstores, and restaurants. I don't need to go to the green plant market to buy plants anymore.



Everytime I complete the real plant caring process, the value of plant health indicators received by the sensor rises. By harvesting the virtual energy, actual synchronous growth is realized.



At the same time, I can also get rewards by reminding my friends of daily plant care and interact with friends!

TinyGreen