G-Garden is an online plant raising app based on NFT that allows growing plants to make online plants have a higher value. Measure the value of the plants you keep by the values of NFT.

The idea comes from my hobby, I am a plant lover, but I cannot have plants at home because of my kittens. I discovered that many plant lovers couldn't grow plants indoors due to practical factors such as health conditions, pets at home, or people being busy at work. My initial plan was to design an online plant growing application to help users unable to grow plants indoors realize their planting dream.

A recent news story caught my curiosity: "NBA icon Stephen Curry buys Bored Ape NFT for $180,000," according to the Theblockcrypto website. After doing some research, I found that "digital art" was causing a wave of popularity on the Internet. All the "digital artworks" are represented by NFTs, and each artwork is unique and untamable. Many NFT platforms provide a choice of "digital artworks" such as paintings, music, photos, etc. The NFT platform also offers a variety of digital art options that are like the adoptive ones, such as Crypto Kitties, doge, and Crypto Trees.  
After conducting user research, I decided to design and create an application： It is an application that combines indoor plant growing and NFT, where users can purchase plants based on their type, age, and shape to determine the value of the selected plants. This application allows users who cannot grow plants in real life to enjoy growing plants while increasing the value of these digital plants. Our goal is to make it a universal template that is available for numerous platforms.

Challenge

**Plant lovers have the following problems:**

If you have plants at home, some of them may lead to family pets poisoned.  
It is difficult to grow plants because they are often careless about plants on their business days.  
Tracking the plant growing process systematically.  
People hope that technology can enhance the value of the plants.

**These problems will be solved by creating:**

A platform including App and Website will guide users in growing digital plants and measure the valuation of the digital plants.

**The effect will be reflected in:**

More plant lovers will be able to grow their plants and increase their value through this platform. More people will learn about NFT, combining technology, art, and life. Cultivate your satisfactory plants based on cryptographic protection of property rights.

Persona

**About Tony Lee**

Tony Lee is a plant lover. He worked at a start-up company as a full-stack engineer. He often gets the latest idea and news. For the complex works, his working must lose a lot of personal time. He has a kitten named Yoki at home. Yoki was poisoned by eating Tony’s plant last year. Tony must throw out all the plants at home to protect his kitten. He was sad that he had to choose one between indoor plants and kittens. He hopes that he can grow indoor plants, even if as a virtual plant.

“I hope that I could grow plants at home one day even if as a virtual plant”.

**Goals**

a. Make a balance between pets and plants.

b. As a virtual growing app, make users have an immersive experience.

c. Enhance the artistic value of plants in the platform of NFT when growing them online.

**Frustrations**

a. Because of pets, plants lover cannot plant at home.

b. Growing indoor plants will take a lot of time.

c. Nowadays, financial management is increasing. How to make financial management and habits together is a huge challenge.

**Tony’s Need**

01.Find (Plants & NFT)

Find an NFT platform that can grow some green plants online. And his online plants have value as art.

02.Registration

Registration online, get his plant with NFT ID and choose the wallet to connect with the platform.

03.Growing Online

Tony could grow a green plant online, and with fitting water and sunny, the plant will improve its value.

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Conclusion

G-Garden is an app that satisfies plant lovers. NFT is very popular as a cryptocurrency at the moment. I envisioned this program to be a template for future NFT applications or online plant cultivation applications. The magic of this application, which combines plant cultivation and NFT, is that through patient and careful cultivation by the user, online plants may grow rare pendants and optional "energy" to increase the value of the plant.

**Challenge in the future**

If there is a chance, I would like to exchange ideas with users about the future use of this application after it develops. Exchange the experience of using it frequently to get valuable feedback. To make sure the team can solve the problem correctly and approach the goal at a steady pace. At the beginning of the project, when all the big problems are divided into smaller ones and solved one by one during the production process to avoid duplication of efforts, the project will be completed more efficiently.

DELICIOUS is a multi-platform ordering application that helps people order food from food trucks around campus.

Because of covid19, many legitimate private kitchen businesses have appeared. People who are very good at cooking can make many servings of food and share it with people in the group purchase format through social media (such as WeChat, Facebook, Twitter, etc.).

This idea is based on a fact: the legal private kitchen business is not systematized. There was a need for an integrated platform to bring food together so that users could easily browse and book different dishes from each family. The idea came from the thought of food sharing. The idea was to combine all the private kitchens into one platform, and students no longer need to pick their favorite food through various social apps, saving them time. By effectively sharing information through mobile, students can also bring food to their friends nearby. Everyone can try different kinds of fresh food to freshen up their lives. DELICIOUS mainly focuses on data visualization and resource sharing.

## Research

"I have a group meeting on Wednesday afternoon from 2 to about 3:30, and I have class from 4:00 to 6:00. I don't want to cook by myself for dinner. But I always want hot Chinese cuisine at that time. I very care about Covid-19, and I don't want to eat Pizza. I would appreciate it if someone could deliver some meal from my favorite Chinese food for me."

"We cook a lot of cuisines every day, and kids say they are delicious and they want to share them with their friends. My kids' friends often like to try the food from our hometown. Due to Covid-19, the restaurants involved are closed. Our menu is very ordinary but offers almost everything you would want from a Chinese restaurant. We offer a low price because our goal is to share the food from our hometown and try not to waste them. We run a "friendly business" by selling as many meals as we can each day!"

"I have a busy work during the day. Although we work at home now, I have no time to cook for myself during noon which I only have one hour to rest. I may get hungry after working a long time. I would appreciate it if the food can preorder and provide delivery the next day service and make me have energy in the afternoon."

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Conclusion

I learned from this project was create a complete mobile app production from start to finish. From conducting user research, empathizing with users and chefs to defining design requirements and developing prototypes, and testing them with actual users to know why things don’t work the way we think they will. This app creates for two categories: family chefs and users. Providing convenience for both of them, realized the ideate of “Sharing Food” in a safe condition.

**Looking back, what would I have done differently?**

1. After determining the location to receive the order. The map can navigate the nearby destinations available for service.  
2. Users can reserve some of their favorite family meals up to one week in advance to make the week richer. The APP interface can show the items offered today, and the items can be pre-ordered.  
3. In the comments interface, families rate themselves, and users rate this family, and provide a reasonable comparison. It would be a challenge for us if the app could calculate the difference value between two ratings in proportion to the number of orders placed by each family. Then, recommend three families for users daily. In short, we need to think about how to justify the daily recommendations by considering various factors.

Lee Hotel Reservation System provides a better user experience and helps travelers book their ideal room through a visual selection interface. When people check in, they won't be disappointed with the floor, room number, room layout, and the view from the window. The reason is that the hotel's web-based reservation system offers a 360-degree preview of the room.

Challenge

**Customers may have problems**

Book a room, the views inside that customers don’t like. For example, after being placed by hotel staff, customers may find there is no window or not satisfy the arrangements. Some customers care about the suite number where they live.

**The problems will be solved by**

creating an order web interface including both choosing and navigation.

**The effects will be seen by**

Decreasing the time spent navigating the room. Meet customer’s needs for room view, suite number, and room layout.

## User interview

"When I looked at the pictures, I booked this hotel on the website which I was satisfied with the room with clean and tidy. However, when I checked in, I noticed that my room did not have a window. During the peak tourist season and there were no more rooms for me to choose change. If I had been staying in a room without a window, I would feel that the air in the room was very unfresh. It would have been nice if I could have seen the floor plan of the room before I checked into the hotel."

"I want to propose to my girlfriend on this wonderful holiday in the city she loves so much, it would be great if I could book the same room number as her birthday, it would help my proposal plan a lot. But I called the hotel where I am going to stay for a long time, but it was difficult to get the room number I prefer because of the peak tourist season, so if I can choose the room number I want directly online, I will book it in advance."

"My husband and I came to this city with the sea for our vacation, and we are glad that we could book a hotel by the sea, hoping that we could enjoy the scenery of the city by the sea while we rested. But when we checked in, we realized that the room we were randomly assigned to was on the other side of the hotel, with no view of the ocean, and we were very disappointed. We would not have been so disappointed if we could have seen the view from the window in advance of our reservation."

## Customer Workflow Summary

* Customer can go directly to their booked room on time without having to worry about any situation where they are not happy with their room and affects their holiday mood.
* Customer can see the exact style of the room when choosing the room to book.
* Customer who has concerns will be given the most suitable room.
* Reduced customer disappointment on the check-in and increased positive hotel reviews.
* Quickly see what the room looks like when searching for a reservation.

## Conclusion

Through research, I found that many people are not satisfied with the room placement when they check in a room at a hotel. For example, the location of the room, the floor plan, and the arrangement of the facilities inside can cause customer dissatisfaction.  
In this project, I designed a hotel system: according to people's requirements to filter out the unordered floors and the available rooms. Customers can view the room layout and the view outside the window at any time, giving them a choice of staying when booking a room.

**Challenge in the future**

In the future, I will improve this project by adding a payment interface, login interface, and service interface. In this project, due to the technical and space constraints, I couldn't show the room style in 360 degrees only could show the two-dimensional pictures (including the interior styling of the room and the view outside the window) to customers. In the future, this will be one of the technical goals that I will try to overcome.