

Peony Picnic Flex

· Video List: <https://youtu.be/rra7XKunJfs>

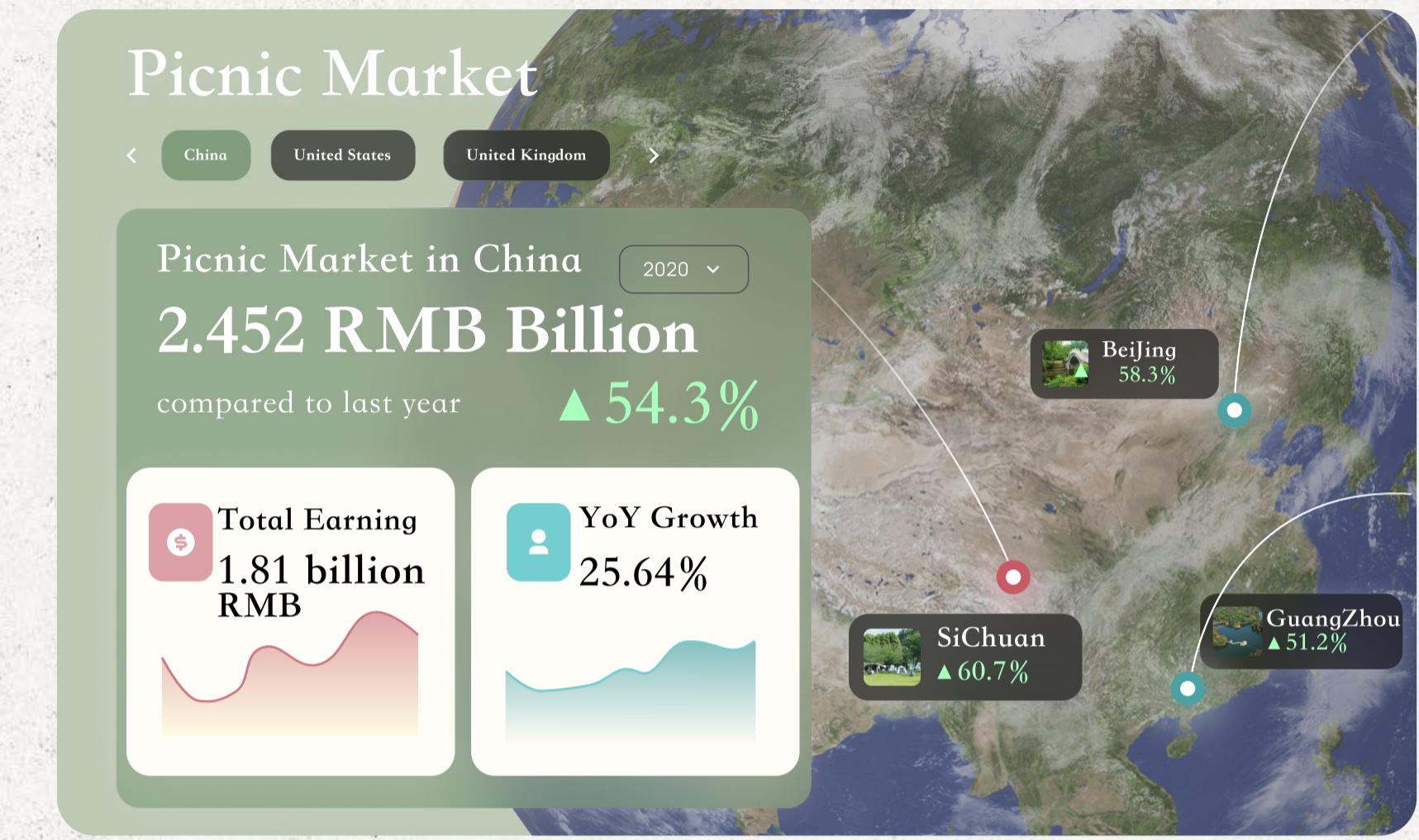
—Organizing a New Chinese-Style Curved Water Flow Picnic

Peony Picnic Flex is a novel Chinese-style picnic service. This picnic service is designed for 1-8 people and is crafted from environmentally friendly materials like loofah and rice grains, emphasizing sustainability. Tailored to the diverse needs of different age groups, the picnic box can transform into a picnic backrest chair, a baby seat, or a picnic table as needed. It incorporates elements of Peony flowers and the traditional Chinese wine game, using water as a carrier to convey food, presenting a unique Chinese charm.



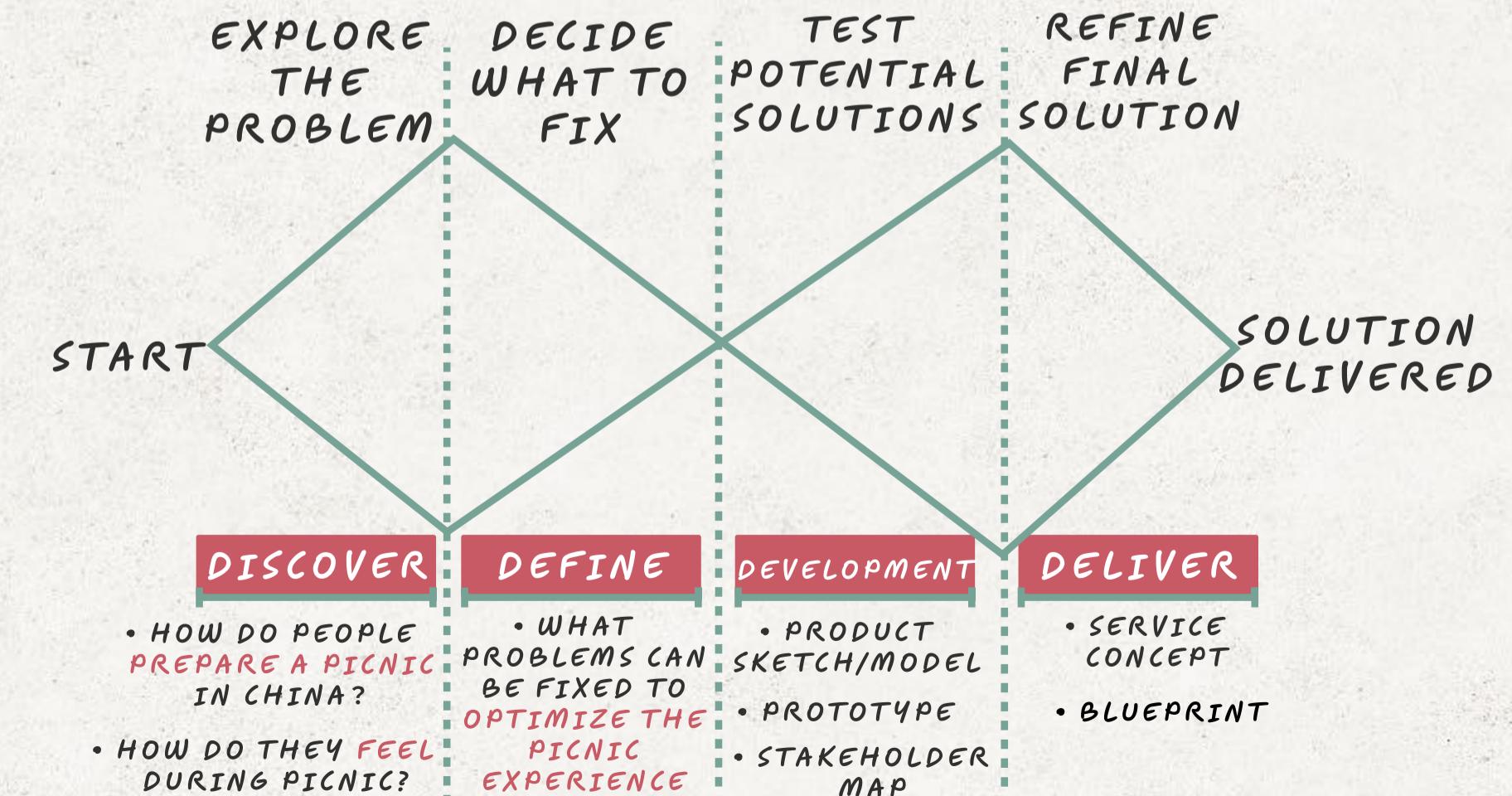
"First Year of Picnic" in China

Netizens have nicknamed 2020 as the "first year of picnic" in China. At the same time, picnic mats have emerged as the top-selling outdoor items in 2020.



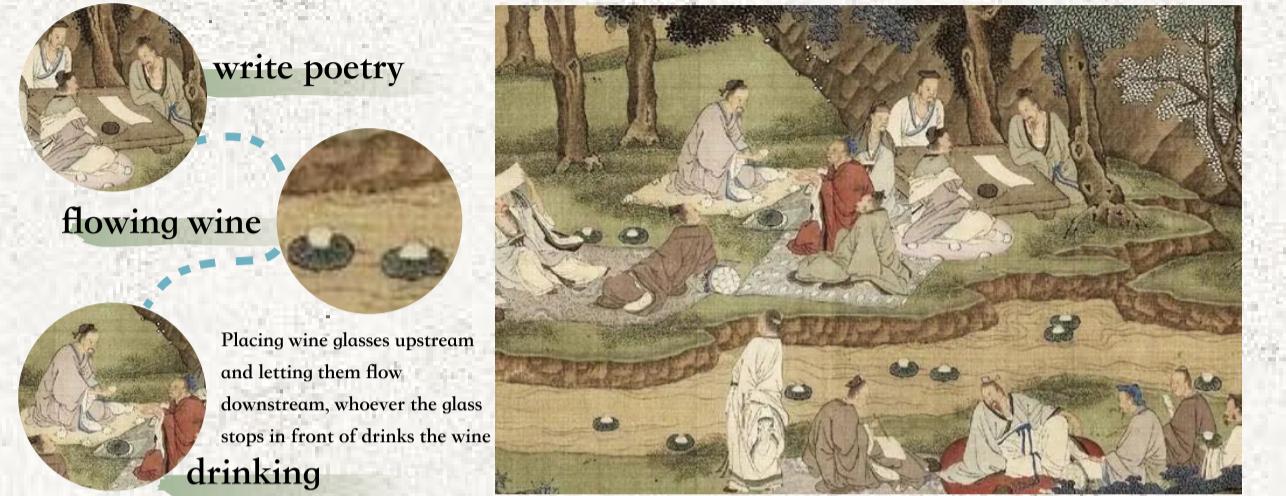
Methodology-Double Diamond Model

The methodology of my project is based on the double diamond model and the chapters are divided according to these four sections.



Define

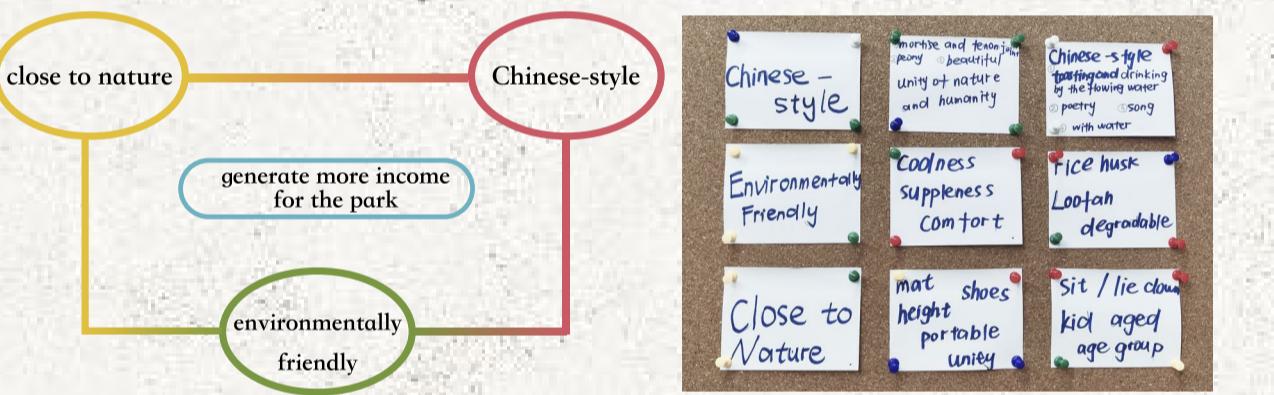
In fact, 2020 is NOT the first year of picnics in China. There has been a long tradition of picnics, with flowing wine and singing songs, in ancient China.



How might we provide tourists with a **Chinese-style** picnic experience while also being close to nature and environmentally friendly?

Concept Development

How to optimize people's picnic experience and make it environmentally friendly



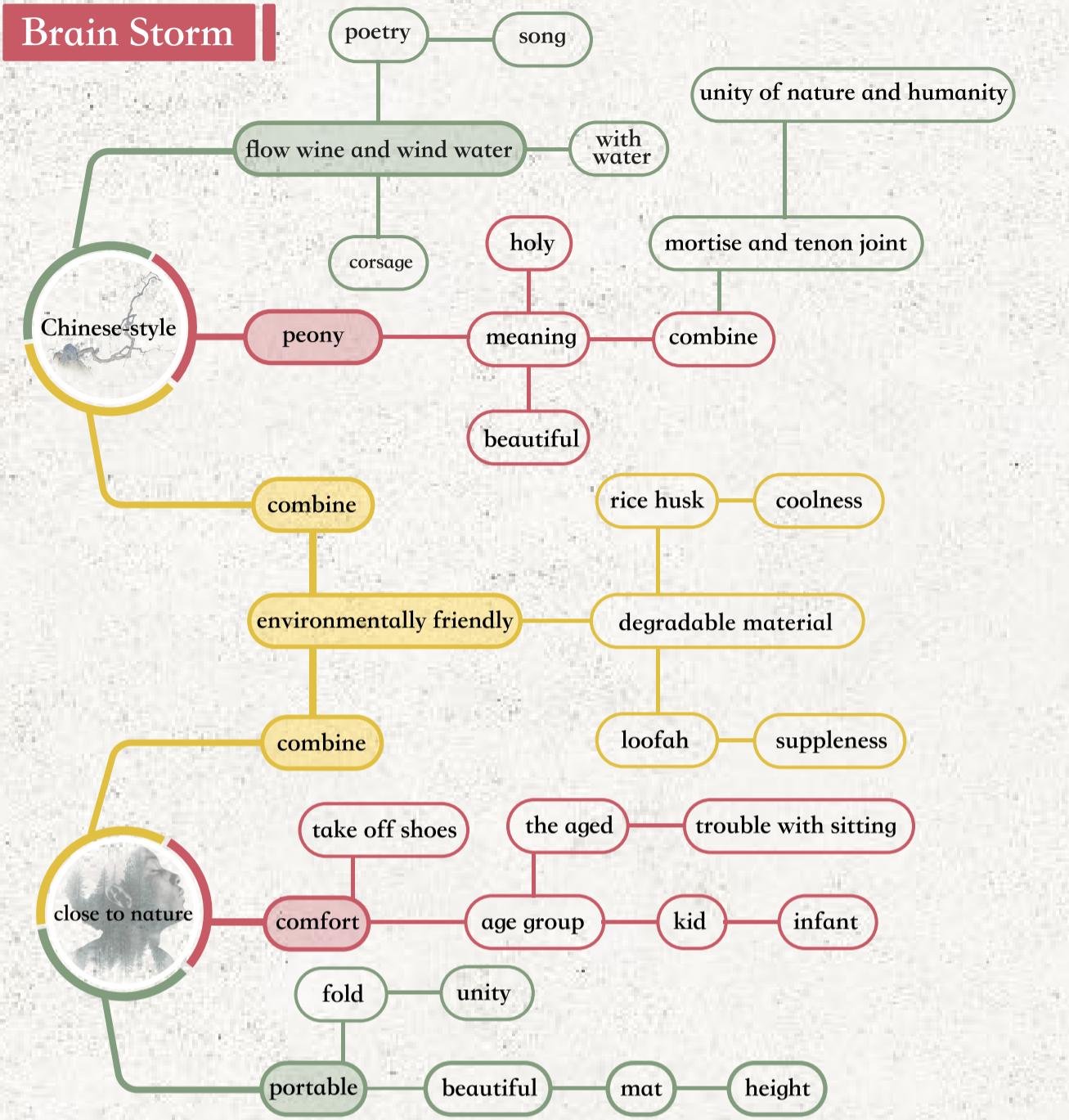
Development

I hope to design a new Chinese picnic service that can accommodate any number of people (between 1-8), with a single chair that can transform to meet different needs such as laying or sitting. It should be suitable for people of all ages and have a unique Chinese style incorporating peony flowers.

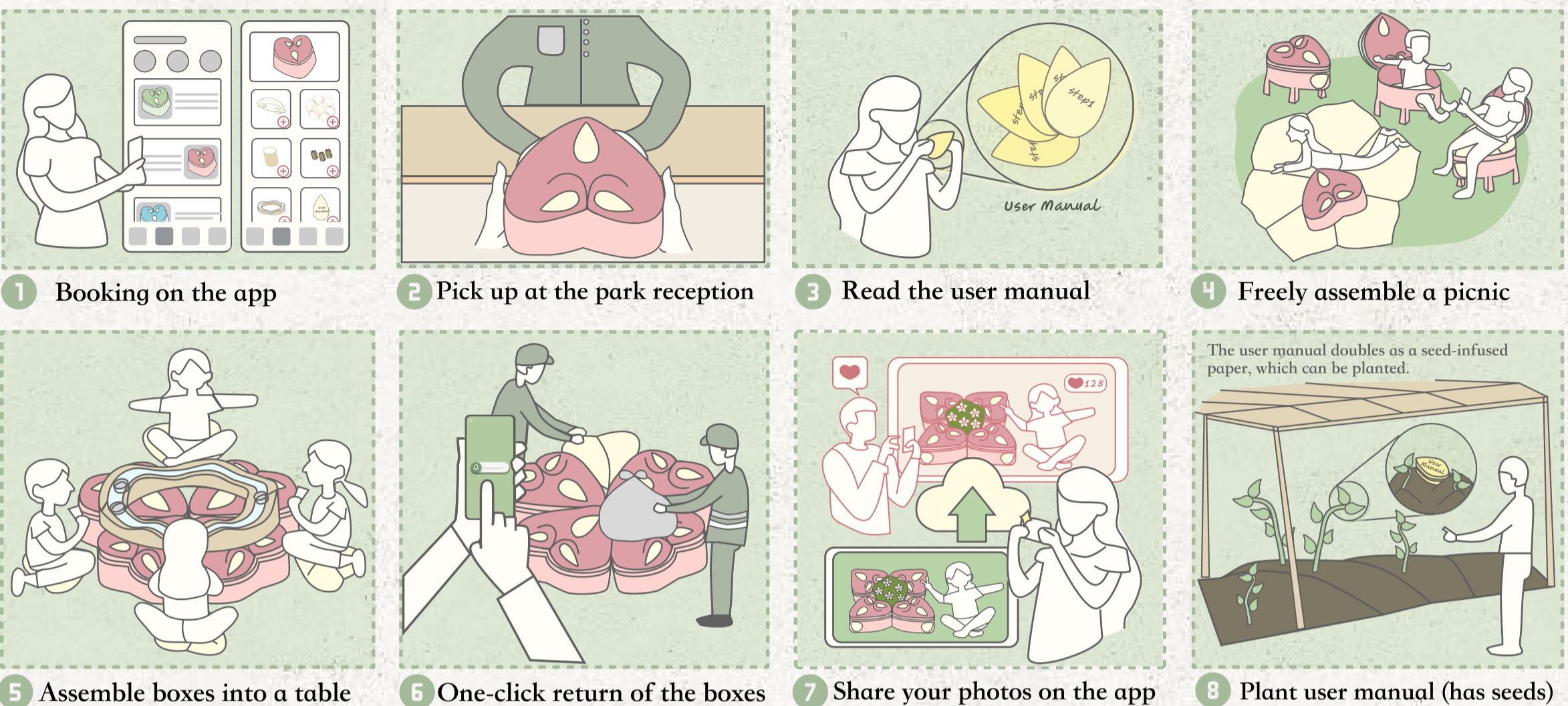
Sketch



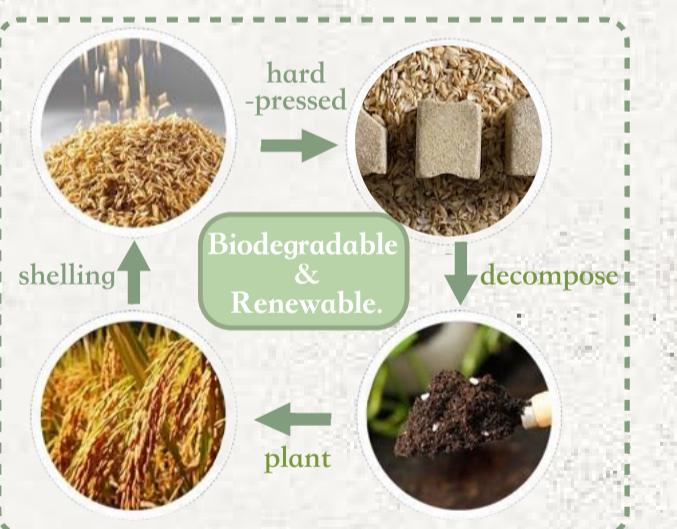
Brain Storm



Storyboard



Material Selection



1. RICE HUSK

1 Environmental Protection: made from natural rice husk shells, it is non-polluting to the environment and biodegradable.

2 Durable: with certain processing, its hardness is sufficient to withstand normal use. Its density is lower than that of wood, making it lightweight and easy to carry.

3 Safe: It does not contain any harmful substances and will not produce any odor.

4 Abundant Resources: China produces about one billion tons of straw and a huge amount of waste rice husks every year.

2. LUCCA SPONGE

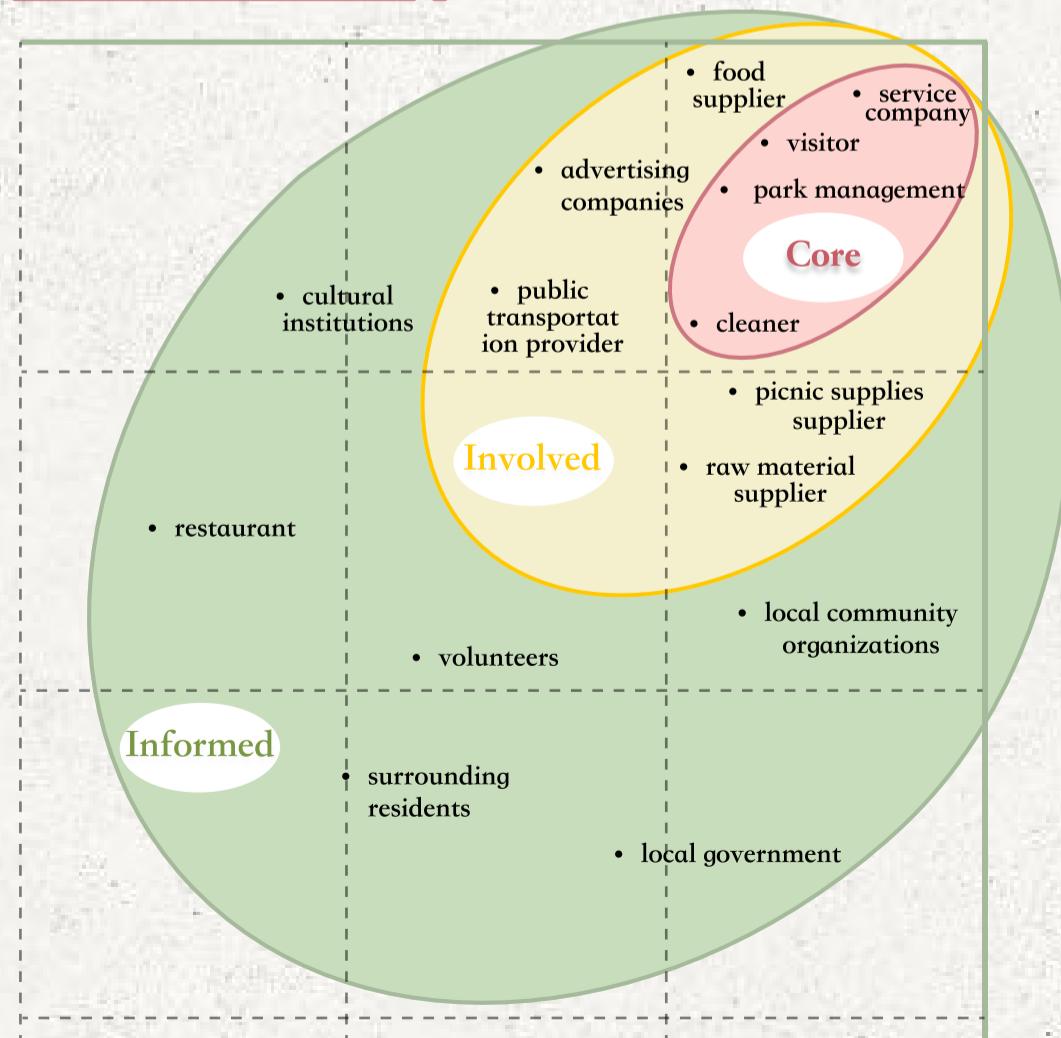
1 Good Air Permeability: the fiber structure has large gaps and good ventilation.

2 Antibacterial and anti-mite: naturally antibacterial and also have a killing effect on mites.

3 High comfort: soft and comfortable, good for use as a mat.

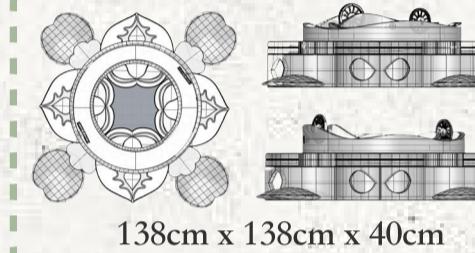
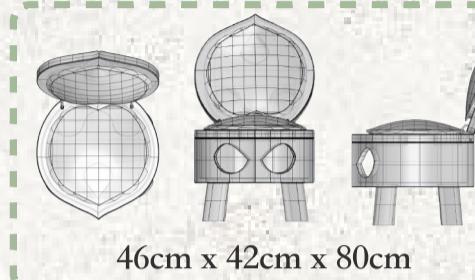
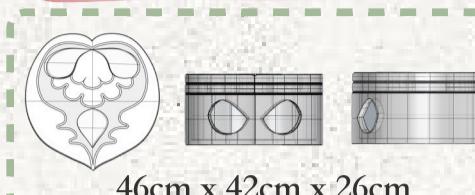
4 Environmental Protection: harmless to the environment and health.

Stakeholder Map



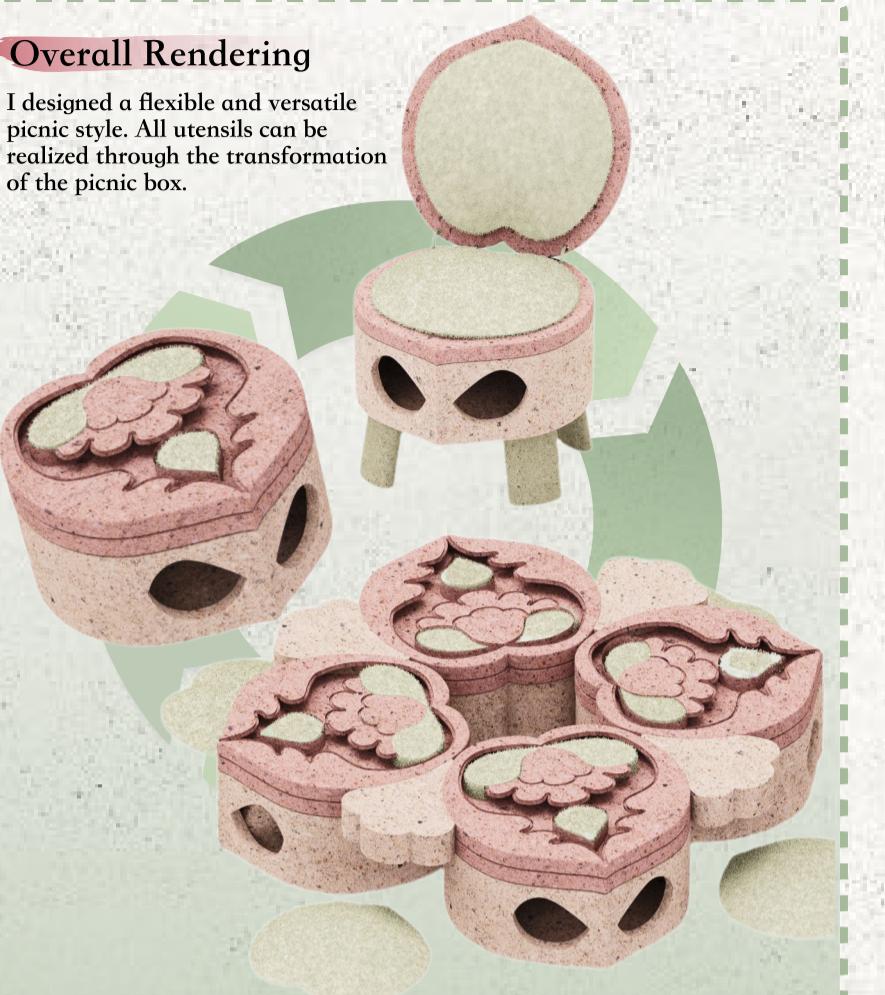
Model

Dimension Diagram

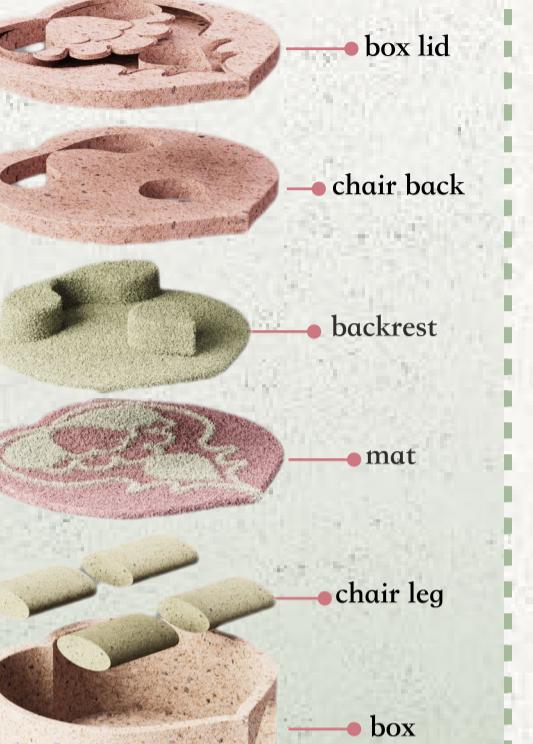


Overall Rendering

I designed a flexible and versatile picnic style. All utensils can be realized through the transformation of the picnic box.



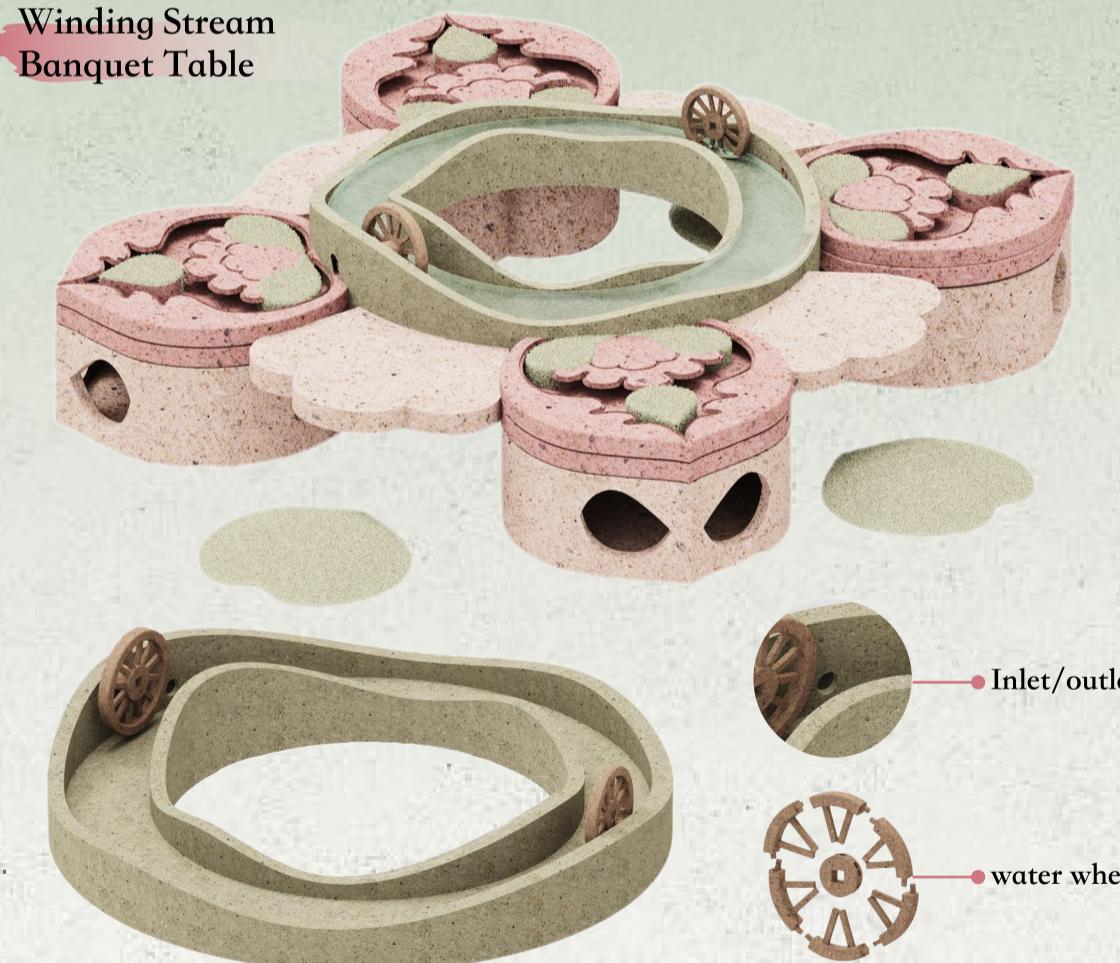
Exploded View Diagram



Multifunctional



Winding Stream Banquet Table



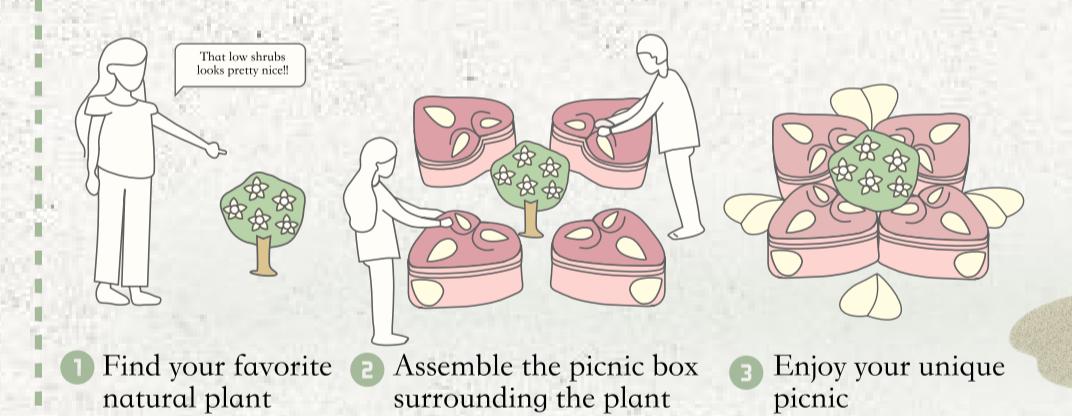
Flowing Cup and Winding Water Device

It can promote cultural appreciation, encourages interaction, adds fun, cultivates poetic culture, and elevates the overall aesthetic experience, making picnics more enjoyable and culturally enriching for everyone involved.

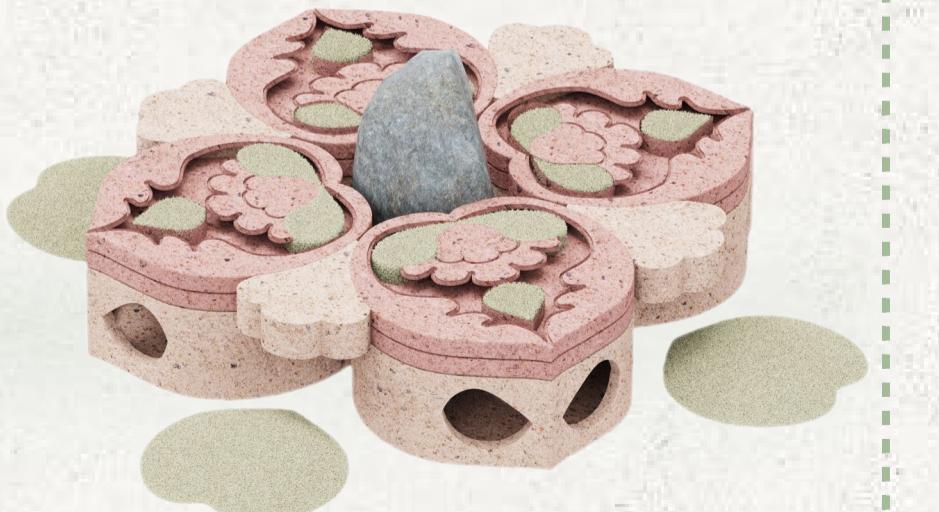


Freely assemble with the nature

Build around your favorite natural landscape, realizing a poetic and unique picnic experience of one step, one scene, and one picnic per scene.

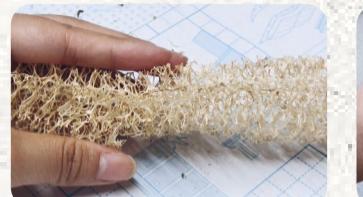


Some combination



Prototype Making

Material Analysis & Testing



Good Air Permeability



Soft



Seeds Can Sprout Again



Dry Moisture-Proof



Easily Deformable

1. luffa sponge



Raw Material



Crush To Power



Mix & Press



Dry Fruit

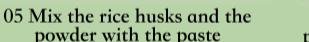


Crush To Power

Rice husk



01 Make the mold for the box



02 Spread a layer of paste on the bottom



03 Spread a layer of rice husks on the paste



04 Spread another layer of paste on the rice husks



05 Mix the rice husks and the powder with the paste



06 Spread the rice husk powder with paste on the top



07 Cut and shape the box



08 Color the box using natural colors

Luffa Sponge



Grind

↓

Compress



Box Body

↓

Box Lid

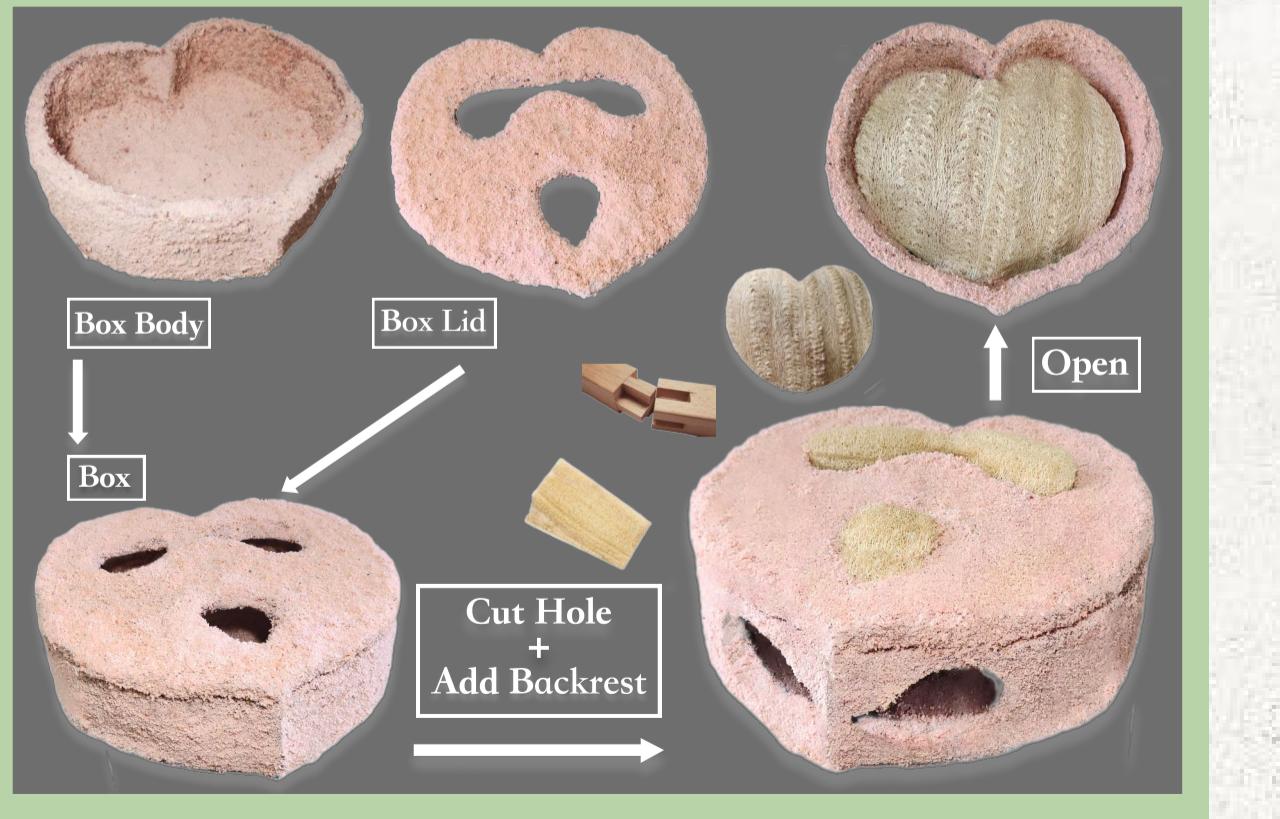
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Box

↑

Open

Cut Hole + Add Backrest

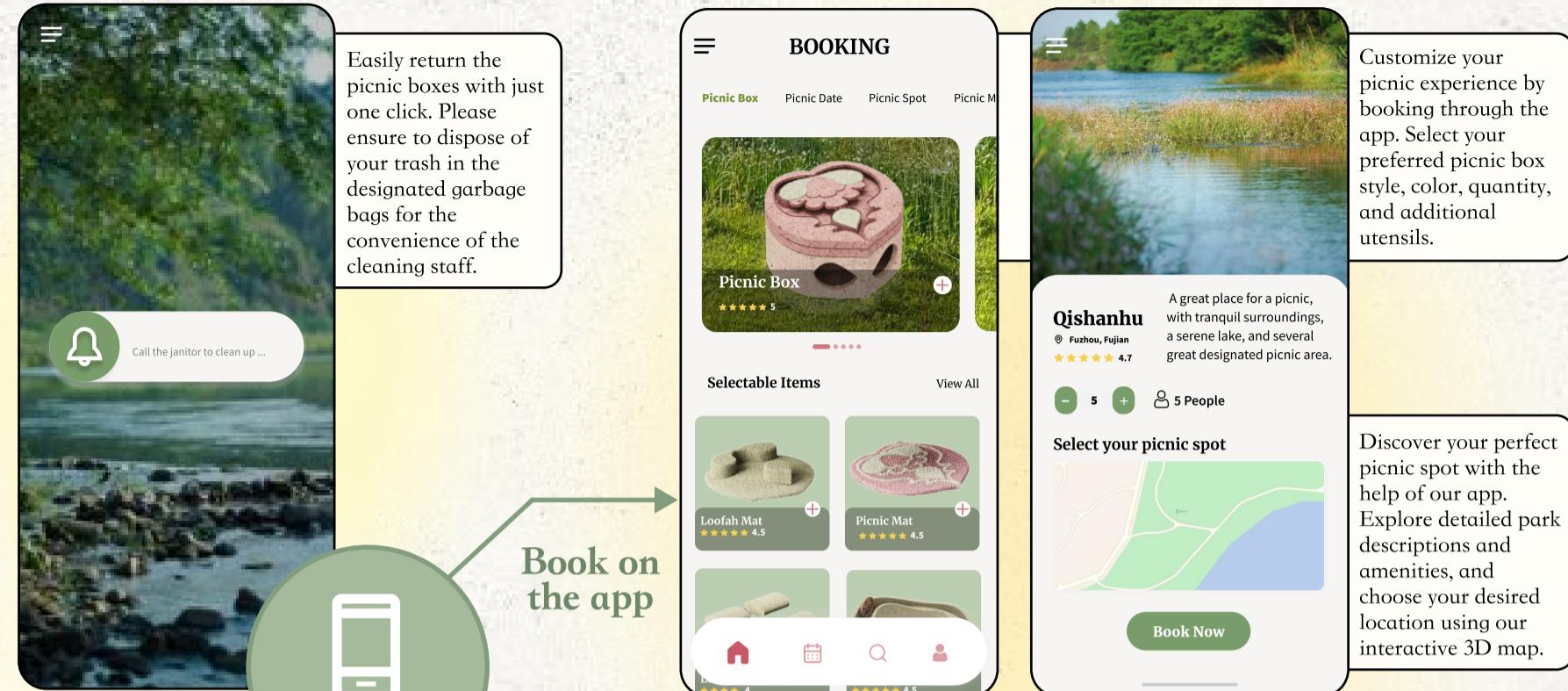
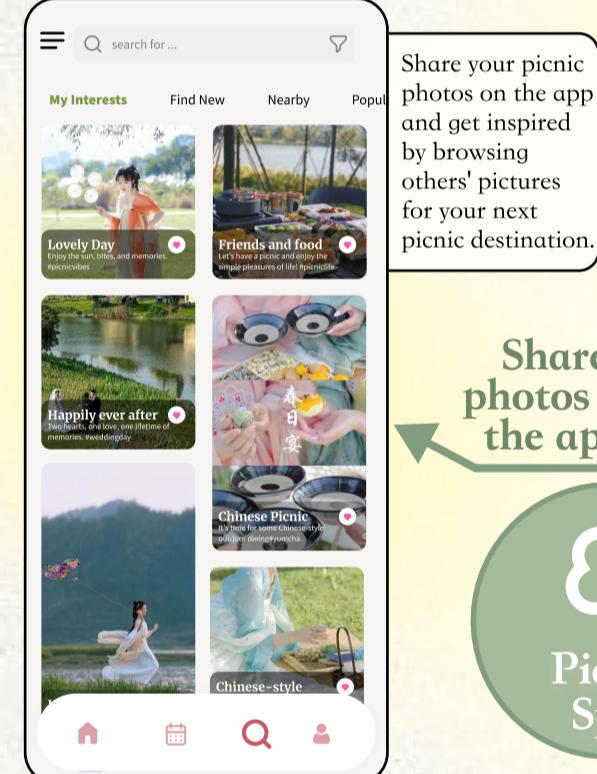


Deliver

System Map

User Actions
 Frontstage
 Backstage
 Support

Frontstage



Book on the app



1

Share your picnic photos on the app and get inspired by browsing others' pictures for your next picnic destination.

2

Call staff to return box

3

Start prepare

4

Give the boxes to customer

Pricing Table



Park Stuff

2

Offer timely help to user

3

Give boxes to customer

4

Call staff to return box

Start prepare

Share photos on the app

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Call staff to return box

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User Test



User Manual



Stakeholder Interview



Feedback from service center staff

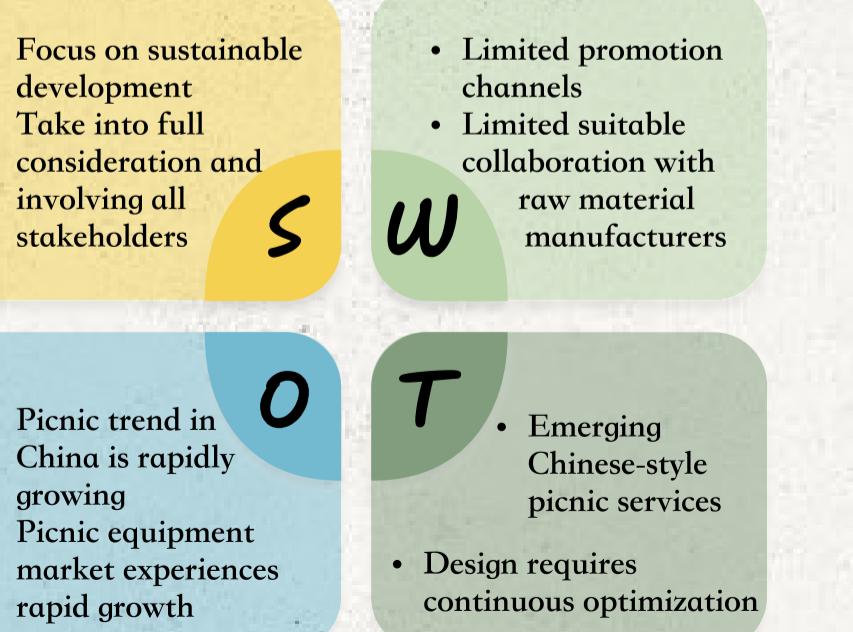
- This picnic box can enhance the profitability of the park and create a distinctive feature for the park



Feedback from park cleaner

- This picnic box helps reduce littering, making it easier for us while being environmentally friendly.

SWOT Analysis



User Scenario

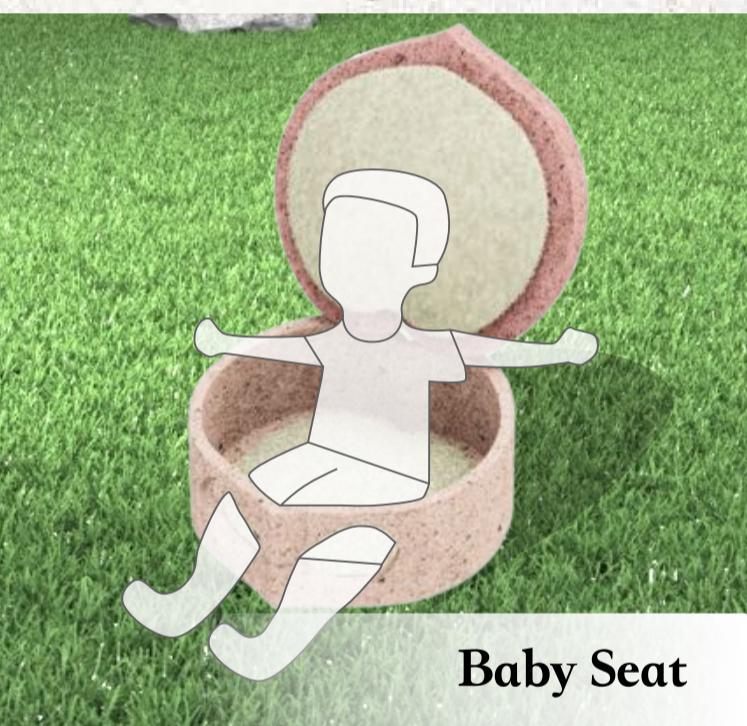


Picnic Gathering

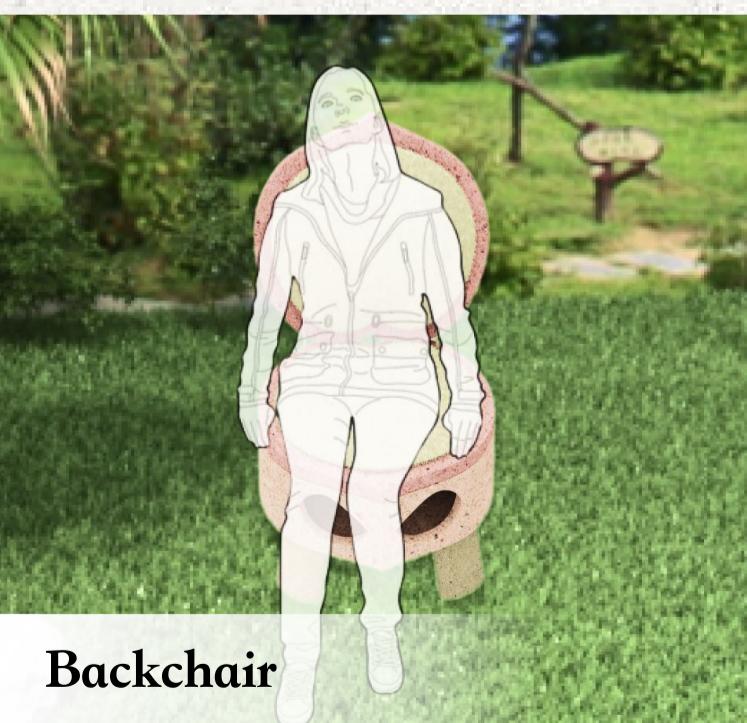


Dining Table

Picnic Box



Baby Seat



Backchair

My perception

"Through this design project, I've explored using sustainable materials, meeting diverse age and cultural needs, and blending tradition with modern demands. What's most rewarding is the extensive communication I had with cleaners, tourists, and children during product testing. It taught me that design should be driven by real needs, requiring constant adjustments and optimizations for various scenarios."