

# Portfolio



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# 01 Dosage-Pal

## Overview

A smart prescription pillbox lid designed to solve medication forgetfulness, repeated dosing, and drug abuse.

## Theme

Prescription Adherence  
Safety & Locking Mechanism  
Data Synchronization



SMART PRESCRIPTION DISPENSING SYSTEM REDEFINING  
PERSONALIZED MEDICATION ACCESS

## 01 Background

### Reality

In the United States, the use of prescription drugs should be a precise, safe, and regulated process. However, reality reveals numerous loopholes, especially in terms of low self-discipline in medical adherence, lack of tracking, and risk of abuse.



### Medication Omission

Based on an 2022 research of NCBI adherence statistics overview, nearly 50% of patients with chronic conditions do not take medications as prescribed.



### Absence of Objective Monitoring

FDA Medication Guide points out current prescription bottles do not track dose timing; caregivers must rely on self-reporting, which highly impairs dose adjustment.



### Drug Abuse Mortality Risk

According to CDC wonder, between 1999 and 2023, the number of overdose deaths caused by prescription opioid drugs continued to rise. In 2023, although the number slightly decreased to 13,026, the fatal risk still remained at an extremely high level.



## 02 Questionnaire

To investigate current situation of prescription medication habits and challenges, I surveyed 96 individuals aged 25 and above who regularly take prescription medications.

### ACTIONS AFTER FORGETTING TO TAKE MEDICATION



43% of all people taking medication forgot to take their medication

57% of all people taking medication do not forget to take their medication

### USER CATEGORIES

Based on the survey it is also concluded that many factors influences actions of different people taking medicines, the most vulnerable groups are:



Elderly People  
By Age Group



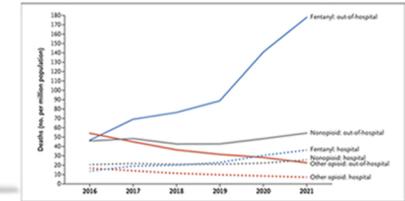
Chronic Illnesses  
By Patients



Opioid Medication Takers  
By Prescription

### Severity

Trends in drug overdose deaths by location and drug type. The chart shows the number of drug overdose deaths per million population in the United States from 2016 to 2021, a period that includes several years before and after the COVID-19 pandemic.



### Current prescription drug bottles

These figures are not cold statistics, but represent real-life crises that have occurred countless times. We have also seen that traditional medicine bottle designs have remained unchanged for decades and lack the ability to meet modern complex medication needs.

## 03 Persona

### Zhong Li

Age: 71  
Occupation: Architect  
Pain Point: Long work hours and frequent site visits make him forget or delay taking medication.

### Shi

Age: 65  
Occupation: Retired Engineer  
Pain Point: Struggles with remembering multiple medications for chronic conditions

### Ms.Li

Age: 54  
Occupation: Office Manager  
Pain Point: Needs to track both her own and her parents' medications, which can get confusing.

### Xue er

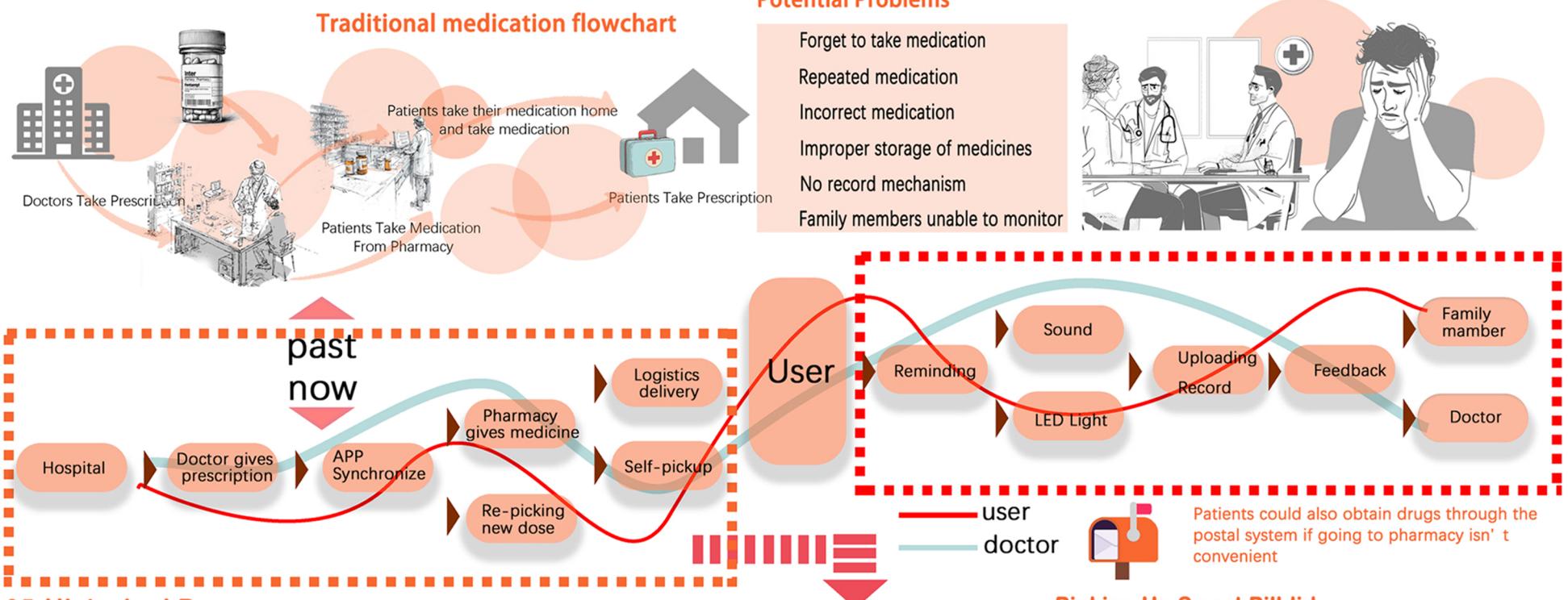
Age: 43  
Occupation: Freelance Photographer  
Pain Point: Unstable travel routine causes missed doses and irregular adherence.

## CONCLUSION

From our survey one thing became clear: people are not satisfied with the current design of prescription medication bottles.



## 04 Methodology



## 05 Historical Process

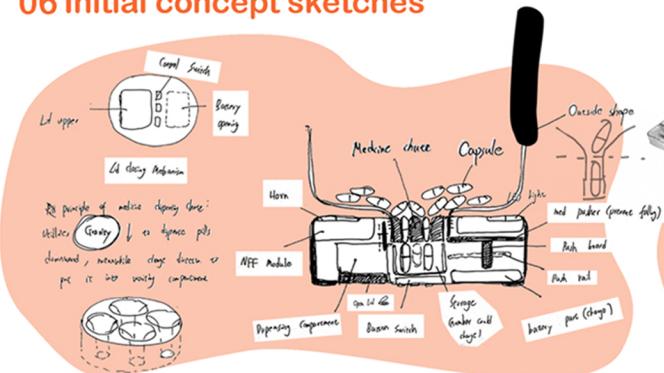


### Picking Up Smart Pill-lid

**Distribution:** When dispensing new medications, the pharmacy will hand the patient the medication bottle along with the cap.

**Instruction:** When dispensing a medication for the first time, the pharmacist must personally explain to the patient the method of use, precautions, and other important information.

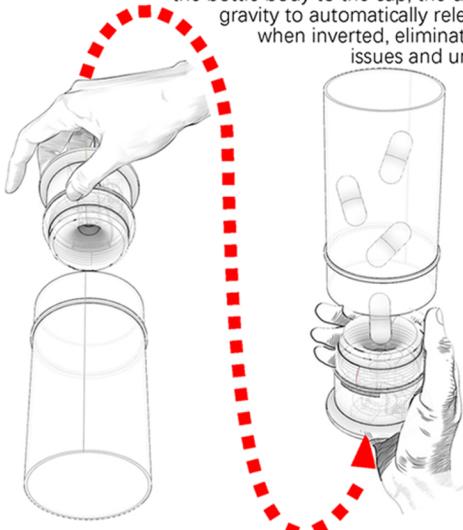
## 06 Initial concept sketches



## 07 Three Big Breakthroughs in Design

### 1.Gravity-Triggered Inverted Structure

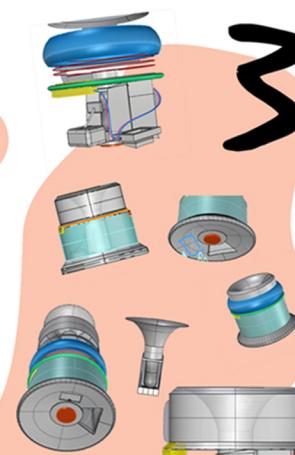
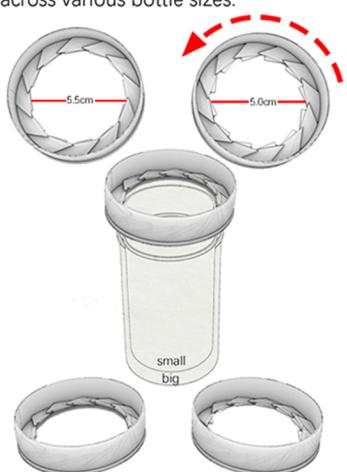
The process of drugs falling automatically with the aid of **gravity**, without the need for additional external force. Shifting focus from the bottle body to the cap, the design utilizes gravity to automatically release capsules when inverted, eliminating jamming issues and unlocking new possibilities.



**2**

### 2.Self-Adjusting Iris Diaphragm

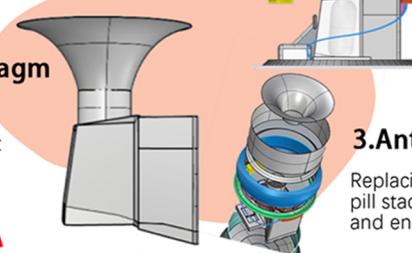
Moving away from bulky traditional adapters, it adopts a camera-inspired iris mechanism for a sleek, universal fit across various bottle sizes.



**3**

### 3.Anti-Clogging Flat-Chute Funnel

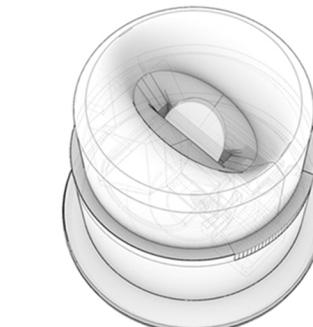
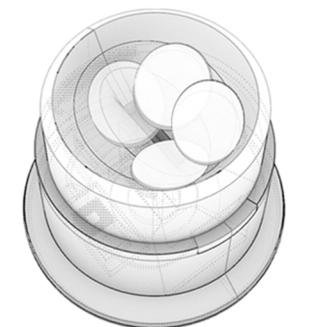
Replacing the round inlet with a flat opening prevents pill stacking, ensuring smooth single-dose dispensing and enhanced user experience.



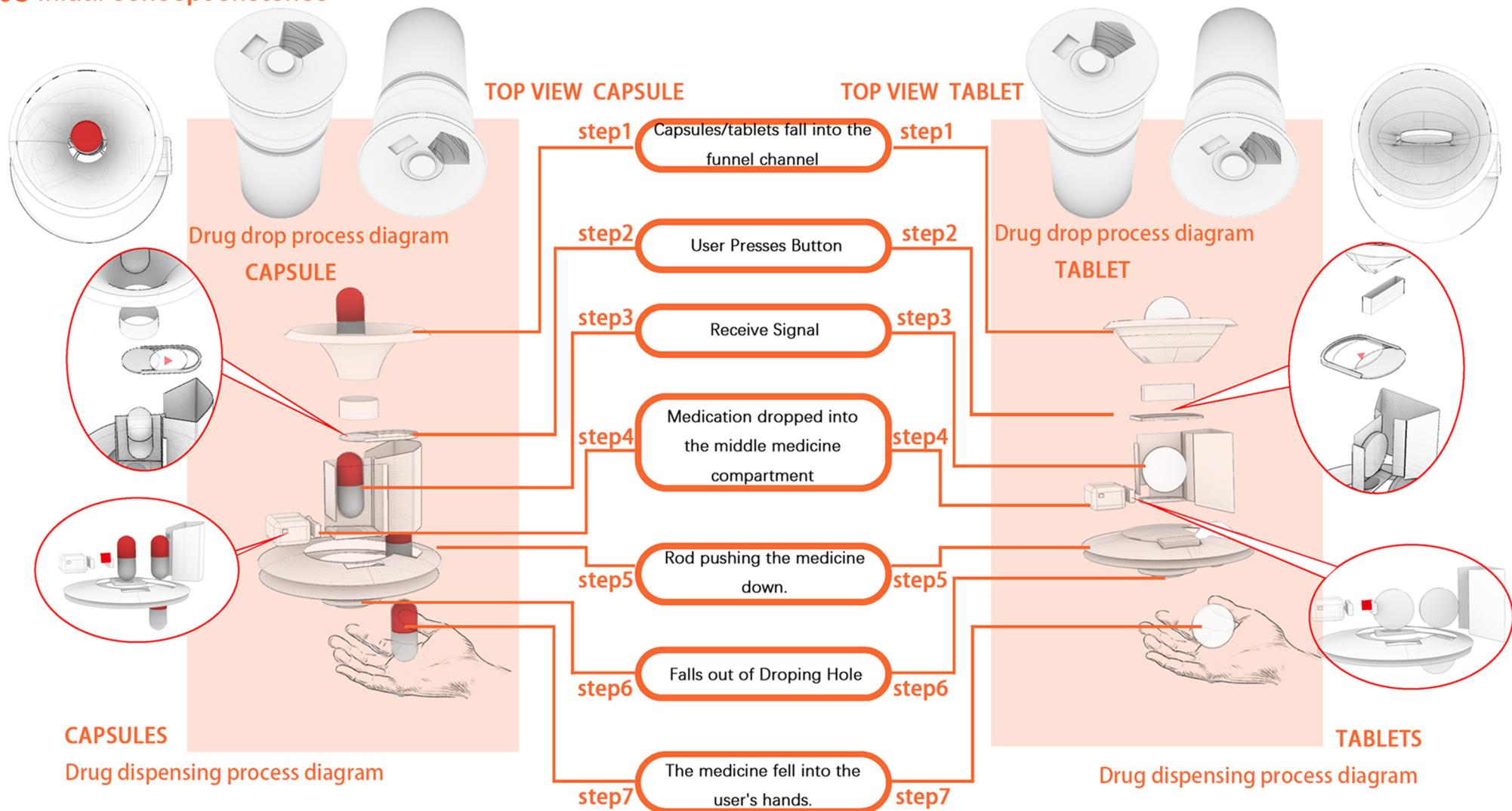
**Initial version:**  
Tablet falls into **round** funnel channel

**Advanced version:**  
The tablet fell into the **flat** funnel channel

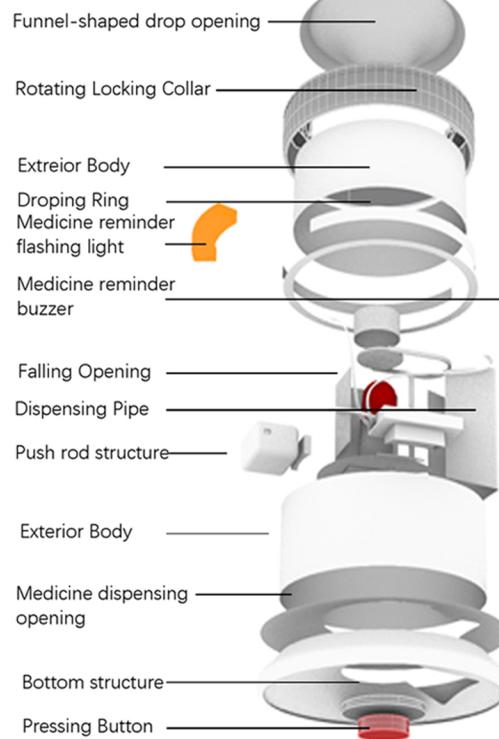
**4**



## 08 Initial concept sketches



## 09 Structural Decomposition Diagram



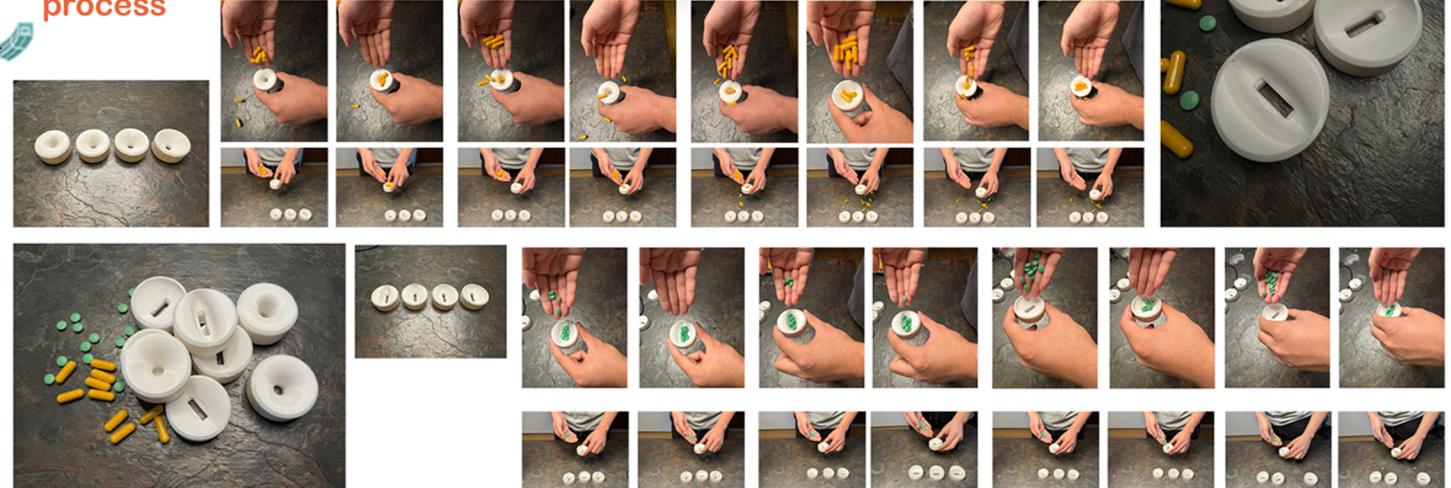
## 10 Appearance of the medicine bottle cap



At night, there may be patients who need more than one medicine bottle. Different flashing colors and sounds have been considered.



## 11 Photos of the experiment process



## Test Conclusions

After ten rounds of testing, Capsule No. 2 was found to have the highest drug coverage rate and was selected as the best option.

Tablet No. 1 was found to have the highest drug coverage rate and was selected as the best option.

## Sample Pass Rate

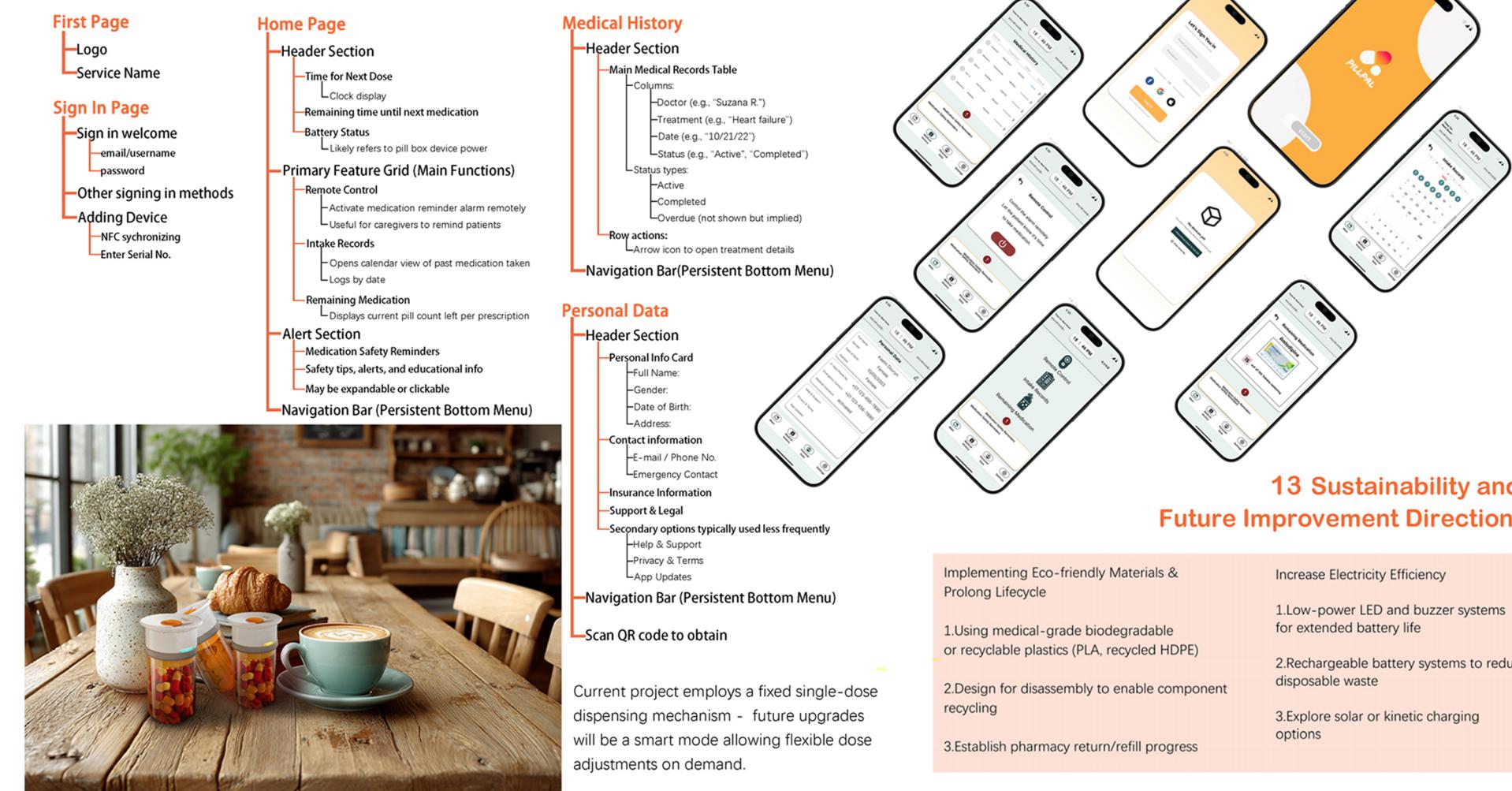
Capsule	1	2	3	4	5	6	7	8	9	10	total
1	4/10	7/10	8/10	9/10	10/10	3/10	8/10	10/10	5/10	8/10	72/100
2	10/10	10/10	10/10	10/10	10/10	10/10	9/10	9/10	10/10	9/10	97/100
3	6/10	6/10	8/10	9/10	7/10	5/10	0/10	7/10	3/10	8/10	59/100
4	5/10	5/10	3/10	0/10	2/10	7/10	9/10	5/10	6/10	6/10	48/100

Take ten pills at a time and drop them all at once, at a height of 5-x centimeters.  
the best Passed number/total number of tests

Pill Tablet	1	2	3	4	5	6	7	8	9	10	total
1	10/10	10/10	9/10	9/10	10/10	10/10	10/10	10/10	9/10	10/10	98/100
2	8/10	7/10	8/10	9/10	10/10	7/10	8/10	9/10	8/10	10/10	84/100
3	6/10	7/10	8/10	9/10	7/10	6/10	5/10	7/10	4/10	8/10	67/100
4	5/10	5/10	2/10	3/10	5/10	7/10	9/10	8/10	4/10	5/10	53/100

Take ten pills at a time and drop them all at once, at a height of 5-x centimeters.  
the best Passed number/total number of tests

## 12 Information Architecture



## 13 Sustainability and Future Improvement Directions

- |   |   |
|---|---|
| <p>Implementing Eco-friendly Materials &amp; Prolong Lifecycle</p> <ol style="list-style-type: none"> <li>Using medical-grade biodegradable or recyclable plastics (PLA, recycled HDPE)</li> <li>Design for disassembly to enable component recycling</li> <li>Establish pharmacy return/refill progress</li> </ol> | <p>Increase Electricity Efficiency</p> <ol style="list-style-type: none"> <li>Low-power LED and buzzer systems for extended battery life</li> <li>Rechargeable battery systems to reduce disposable waste</li> <li>Explore solar or kinetic charging options</li> </ol> |
|---|---|

# 02 Sky-Harvest

## Overview

A fruit and vegetable rooftop cultivation and drone delivery system that aims to shorten the distance from "farm to table".

## Theme

Urban Space Reuse  
Agricultural Planting  
Drone Delivery



## Related Projects

<b>amazon fresh</b>
Model: Unmanned fresh food vending station
Reasons for failure Rent costs account for 45% of revenue Freshness complaint rate of 32% Theft and damage
Model: Community bulk ordering + designated delivery point
Reasons for failure Minimum order quantity requirements led to the loss of users Last-mile delivery costs even more



## 01 Background

Urban residents face delays and inefficiencies in the fresh food supply chain, with long transport times leading to a decline in the freshness and flavor of fresh produce. Currently, there are several major pain points for urban consumption:

### Low transport efficiency & prolonged delivery cycles

lead to reduced freshness, compromised flavor, and diminished nutrient content by the time produce reaches consumers.



### High vulnerability Urban Supply Chain

such as extreme weather events, transport strikes, or policy changes, which can quickly impact availability and pricing.

### Dietary inequalities

in urban areas, where lower-income neighborhoods are dominated by unhealthy options like fast food and ultra-processed snacks, crowding out access to fresh produce.



### Over-reliance on centralized retail channels

creates bottlenecks and limits flexibility in supply, making the system slow to respond to changing demand.

### No personalized planting or product selection mechanisms

leaving consumers unable to influence crop types, harvest timing, or product variety according to their preferences and needs.

## 02 Questionnaire



Omaid Mustafa  
Personal Info

Male  
28 Years Old  
Local New Yorker / UX designer  
Knows almost everything about NYC  
Enjoy Watching Movies/ Eat Brunch



Lara Bennett  
Personal Info

Female  
43 Years Old  
Landscape Designer  
Live in NJ, work on the island  
Have a unique taste in Bonsai



Jing Bin  
Personal Info

Male  
52 Years Old  
Senior designer in China  
Traveling in NYC for 2 weeks  
Like to try different fruit tarts



Gabbi Xue  
Personal Info

Female  
29 Years Old  
RTO employee in NYC  
living in NYC for few months already  
Enjoy Eating Salad, Vegetables



Weee!  
Whole Foods

Pain Points  
As a temporary resident, there are too many choices for supermarkets in the city, but I often find it hard to buy and cook fresh various veggies or fruits to make my own personal diet meal.



Jing Bin  
Personal Info

Male  
52 Years Old  
Senior designer in China  
Traveling in NYC for 2 weeks  
Like to try different fruit tarts

## 03 Research

### Manhattan As Test Ground

Manhattan's extreme density ( $\approx 70,000$  people/sq mi) creates concentrated demand for fresh food, making it a prime location to pilot scalable solutions like rooftop farms or drone delivery that could maximize limited space and serve large populations efficiently.

### Age Distribution



Manhattan is the ideal test ground for VertiFresh due to its high population density, diverse cultural preferences, fast-paced lifestyle.

### Ethnic Compartions



## Summary

Manhattan faces many challenges in accessing fresh from the earth products due to



long-distance supply chains



limited availability of user customized options



inconvenience of traditional retail

## 04 Solution Development

### Problem Statement

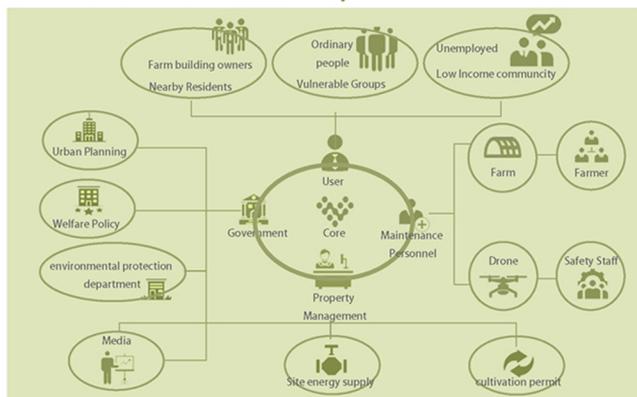
Manhattan residents face challenges due to long-distance supply chains, limited access to fresh and diverse produce, time constraints for in-person shopping, and rapid loss of freshness during transportation, impacting community health, dietary quality, and environmental sustainability.

DEFINE	IDEATE
Last-mile delivery for perishables is inefficient.	Rooftop farms ensure freshness
Demand for fresher, tastier options is rising.	Drone delivery with smart routing
Urban diets lean unhealthy due to poor access	Vertical charging towers for quick deployment
Overreliance on manual labor slows delivery.	Airspace "green corridors" for food routes
Freshness declines rapidly in current systems.	Cuts transport steps, lowering carbon emissions.

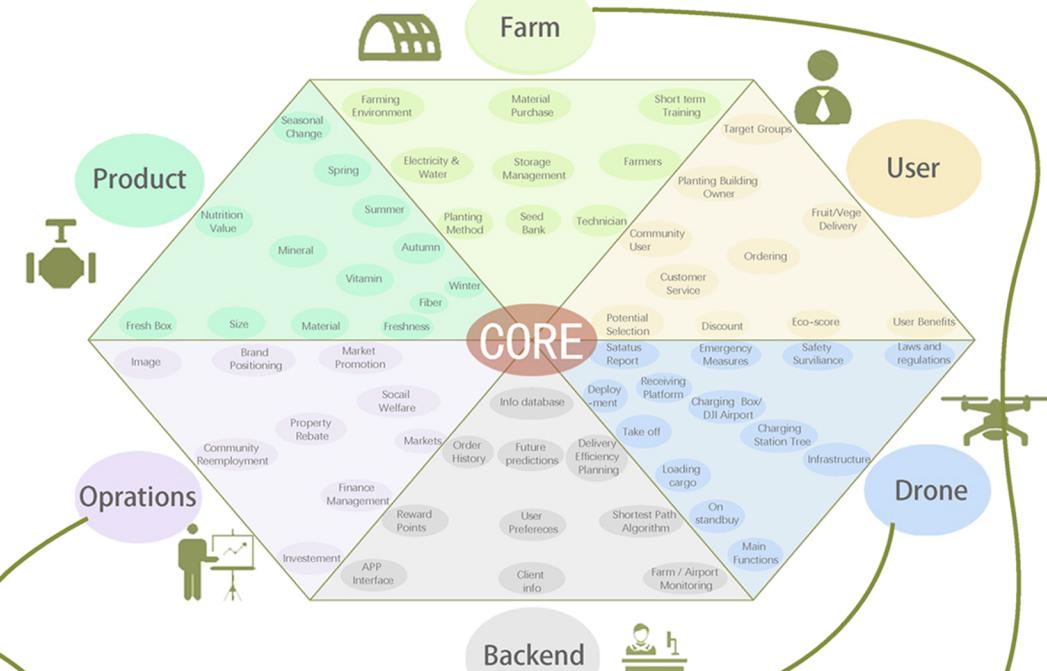


For high-rise window height restrictions, the delivery can be resolved by installing additional self-service parcel lockers on the ground.

## 05 Stakeholders Map



## 06 System Architecture



## 07 Business Model Canvas

Key Partnerships	Key Activities	Key Resources	Cost Structure
Building/estate owners with rooftop access	Rooftop farm setup & maintenance	Rooftop spaces & equipment	Farm installation & upkeep
Drone operators & logistics agencies	Drone delivery & route optimization	Drone fleet & charging stations	Drone purchase & maintenance
Local government for airspace & safety regulations	Customer order management	Farm management software & AI tools	Technology infrastructure
Urban agriculture suppliers	Crop planning & monitoring	Skilled technicians & operators	Labor & training

## 08 Farm & Agriculture

### Feasibility Analysis of Roof Gardening

High-rise buildings	
Middle-level buildings	
Low-rise buildings	
Low-rise buildings (1-5 stories)	
sunlight	Relatively insufficient sunlight
wind	low wind speed
temperature	Stable temperature

### Facility Composition



### Drone

#### Multi-Layer Drone Deployment Tower

A drone automatic deployment and charging tower composed of multiple DJI Dock modules stacked vertically.

#### Management and Dispatch Facilities

The dome-shaped building serves as the central management and dispatch facility for the entire system.

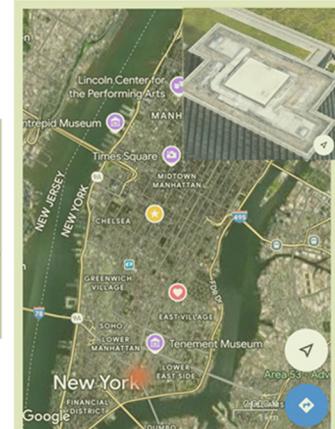
## 09 Facility Coverage Planner

### Data Source

Geojson.io Satellite Map  
Extracted high resolution satellite images to capture the whole potential farm deployment area, and export it into Geojson file



### Potential Available Sites



### Employment Linkage

The staff of farms advocate linking unemployed residents to subsidized rooftop gardening and drone safety monitoring roles, where community service hours earn points redeemable for fresh-produce-creating a sustainable cycle of workfare, and mutual aid.

### Implementation Support

#### Eco-Points: For Staff

Earn points through planting and related activities, redeemable for discounts, while tracking cost and eco-impact compared to traditional methods.



#### Eco-Points: For Users

Earn points by returning boxes or recycling promoting community participation and showing clear environmental and cost benefits.

### 10 Fruit box

The fruit box is made from environmentally friendly, biodegradable materials.



## 11 Drone Delivery System



### DJI Matrice 3D

Autonomous GPS-guided drone with obstacle avoidance and a custom mount for secure fresh box delivery.



### DJI Airport 3

Fast-charge docking station (20min) with weather monitoring and data sync.



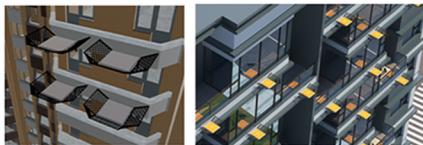
### Rotating Charging Station

Wireless, dual-mode charging base for multiple drones, 40% more efficient.



### Receiving Platform

Simple steel structure at windows/balconies for verified, secure drop-offs.



### Safety Measures

Comply with Manhattan drone laws-height limits no-fly zones, and privacy rules.



Use DJI 03 live feed for real-time monitoring.



Sensor dashboard tracks battery, motor, and GPS status.



A dedicated safety monitor oversees system status at all times.



Apply geofencing to block restricted areas.

Enable one-click emergency takeover for instant control.



## 12 Methodology

### A\* Shortest Delivery Route

#### Data Source

#### Input

A predefined  $10 \times 10$  grid map that simulates a drone navigation area. → Free space (drone can fly over it) → Obstacle (e.g., rooftop/building, drone must avoid) in python

```
grid = [
    [0, 0, 0, 0, 0, 0, 0, 1, 0, 0],
    [0, 1, 1, 0, 1, 0, 0, 1, 0, 0],
    [0, 1, 0, 0, 1, 0, 0, 1, 0, 0],
    [0, 1, 0, 1, 1, 0, 0, 0, 0, 0],
    [0, 1, 0, 0, 0, 0, 1, 1, 1, 0],
    [0, 1, 0, 1, 1, 0, 0, 1, 0, 0],
    [0, 0, 0, 1, 0, 0, 1, 0, 0, 0],
    [1, 1, 0, 0, 0, 1, 1, 0, 1, 0],
    [0, 0, 0, 1, 0, 0, 0, 1, 0, 0],
    [0, 1, 0, 1, 0, 1, 0, 0, 0, 0]
```

#### Elements Setup

**heapq** → Manages the open set (priority queue) efficiently.

**math** → Provides Euclidean distance as the heuristic.

**matplotlib, numpy** → Used for visualizing the final path.

#### python

```
import heapq
import math
import matplotlib.pyplot as plt
import numpy as np
```



Eco-friendly fruit box ➔



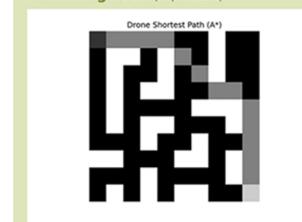
#### First Visualization

~ Starting point: Grayish white

~ End point: Dark gray

~ Path: Medium gray

~ Buildings: Black (impassable)



#### Pathfinding Core

The core is to find the shortest route from a start point to a goal on a grid.

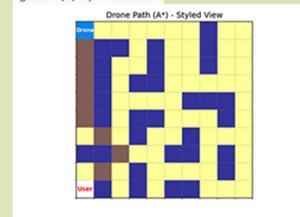
It combines the actual distance traveled ( $g$ ) with an estimated distance to the goal ( $h$ ) using Euclidean distance. It checks eight directions (including diagonals) and avoids visited or blocked cells. The path with the lowest total cost ( $f = g + h$ ) is expanded first, continuing until the goal is reached or no path is found.

```
grid = [[0, 0, 0, 0, 0, 0, 0, 1, 0, 0], [0, 1, 1, 0, 1, 0, 0, 1, 0, 0], [0, 1, 0, 0, 1, 0, 0, 1, 0, 0], [0, 1, 0, 1, 1, 0, 0, 0, 0, 0], [0, 1, 0, 0, 0, 0, 1, 1, 1, 0], [0, 1, 0, 1, 1, 0, 0, 1, 0, 0], [0, 0, 0, 1, 0, 0, 1, 0, 0, 0], [1, 1, 0, 0, 0, 1, 1, 0, 1, 0], [0, 0, 0, 1, 0, 0, 0, 1, 0, 0], [0, 1, 0, 1, 0, 1, 0, 0, 0, 0]] start = (0, 0) # 起点 goal = (9, 9) # 终点
```

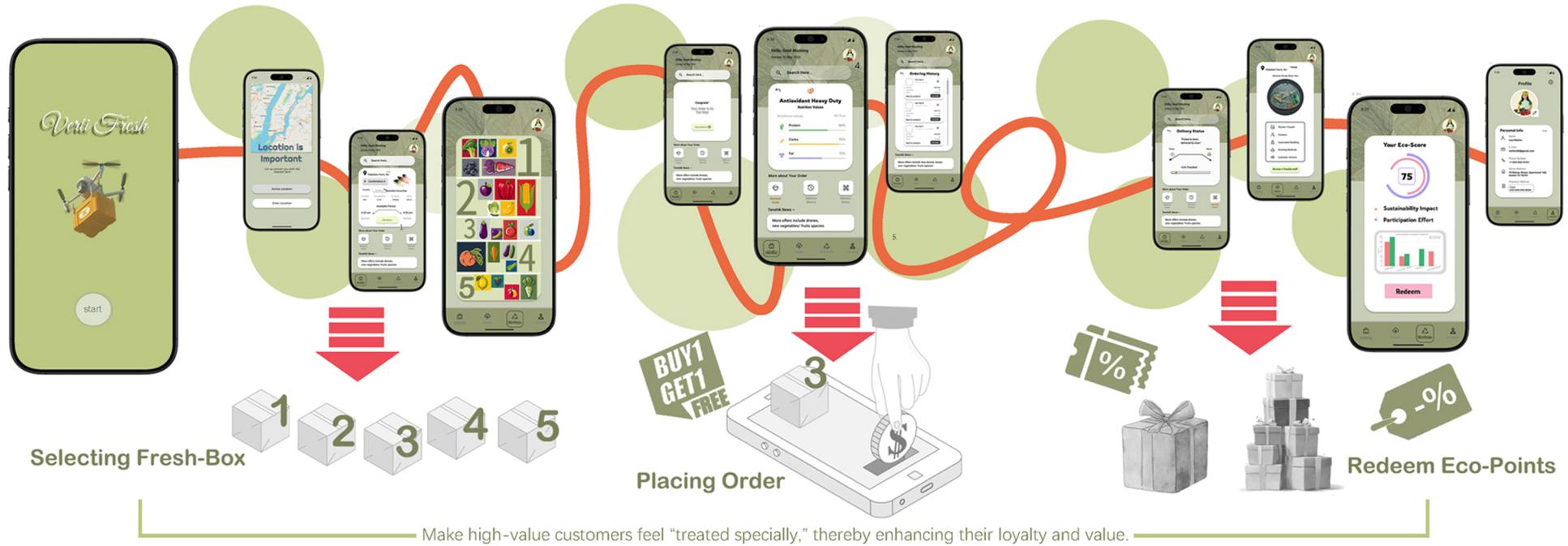
#### Final Visualization

s) and avoids visited or blocked cells. The path with the lowest total cost ( $f = g + h$ ) is expanded first, continuing until the goal is reached or no path is found.

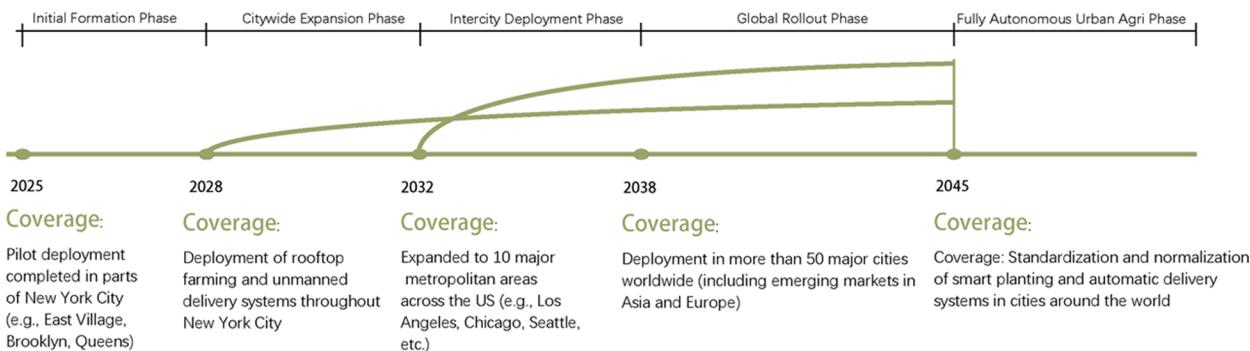
```
start = (0, 0) # 起点 goal = (9, 9) # 终点
```



## 13 APP Interface



## 14 Future Time Lapse



## 15 Sustainability and Future Improvement

Infrastructure & Technology	Operations & Coordination
~ Charging Station Upgrades	~ Drone Delivery and Charging System
~ Photovoltaic power supply integration	~ Policy and Airspace Coordination
~ Technology Iteration and Range Optimization	
~ Extreme Weather Adaptability	
	Environmental & Resource Management
	~ Rooftop agriculture and energy recycling
	~ Improve resource recycling
	~ Soil and planting system optimization

# 03 BioColor Tag

## FRESH INDICATOR

### Overview

Freshness indicator label based on natural colorings

### Theme

Nature-Driven Sensing  
Food Safety & Sustainability  
Design for Visual Interaction



Supermarkets and fresh food retailers lack intuitive freshness display tools in shelf management.



A UK WRAP report indicates that approximately 50% of household food waste stems from misjudging freshness, particularly for meat and dairy products.



### Management Burden

For families, managing perishable foods is a burden: it requires constantly monitoring food conditions and accurately determining their edibility and shelf life, a process that often causes psychological stress and operational inconvenience.



### 3 Summary

Existing "time labels" and "expensive electronic monitoring" failed to meet the mass-market demand for low-cost, intuitive freshness detection; consumers struggle to make accurate judgments, and retailers lack visual display tools, resulting in food waste and trust crises coexisting.

## 1 Background

### Scale of Food Waste

According to FAO data, approximately 1.3 billion tons of food are wasted globally each year, with perishable foods accounting for the highest proportion.

### Economic Losses

Food waste results in global economic losses of approximately \$940 billion per year.

### Cold Chain Failure

Approximately over 25% of perishable foods spoil due to improper temperature control in the coldchain.

### Consumer Misjudgment

According to an NRDC survey, 91% of consumers misunderstand "best before" dates and discard food that is still edible.

## 2 Pain Point Interviews



Jenny Wu

Hotel Manager

Needs a reliable way to ensure buffet and stored ingredients stay fresh, since staff often misjudge food quality.



Feng

Independent Artist

Lives alone and forgets what's in the fridge leading to food spoilage or unsafe eating.



Jia Qi

Fund Manager

Buys premium food but discards it too early out of uncertainty, wasting money and nutrition.



Yu dong

Clothing Agent

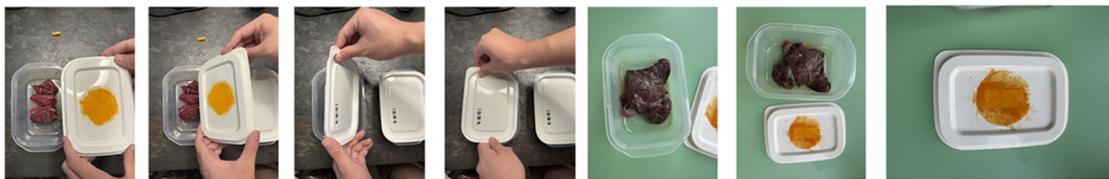
Travels often and returns unsure if stored meat or dairy is still safe to eat.

## 4 Color Reaction Experiment

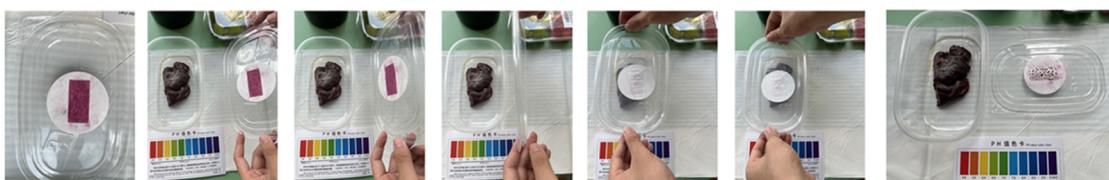
First, the study tested anthocyanin and curcumin under the form of dry powder—observing their color changes based on pH response.



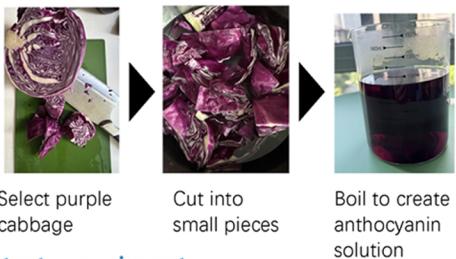
### Curcumin powder color change



### Anthocyanin powder color change



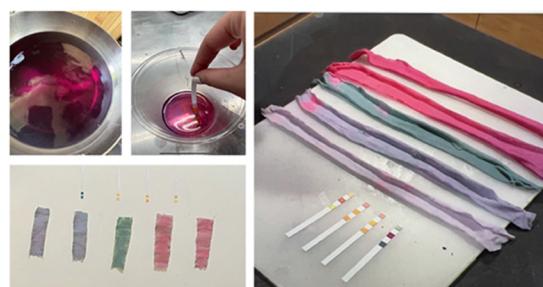
## Anthocyanin Liquid Extraction Process



## 5 Material Adhesion Experiment

In adhesion experiments on paper and fabric substrates, anthocyanins demonstrated excellent coloring performance.

However, when considering the feasibility of subsequent industrial applications, [paper-based materials](#) showed more significant advantages.



## PH test experiment



### Acid



### Alkali



## Conclusion - 1

Experiment turned out as expected, dry powders are chemically stable, color changes are extremely slow and nearly invisible, thus not applicable.

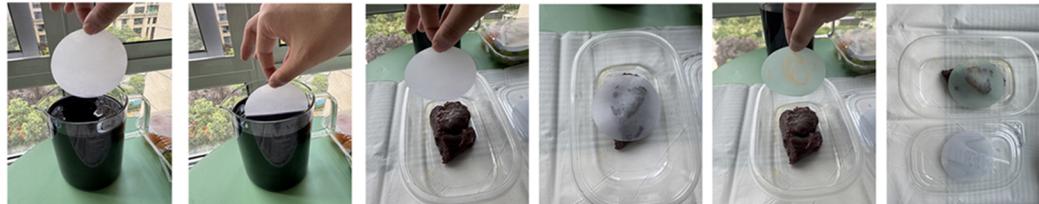
## Conclusion - 2

Anthocyanin extract mixed with three acids and three alkalis showed significant color changes within five minutes. Results from mixing hydrogen sulfide, ammonia, and other gases with volatile compounds. This process also warns us that meat is already rich in microorganisms, and the gas mixture produced by rotting meat contains high concentrations of ammonia.

## 6 Meat As Reaction Testing Subject

### Step1

Extract anthocyanin aqueous solution



### Step2

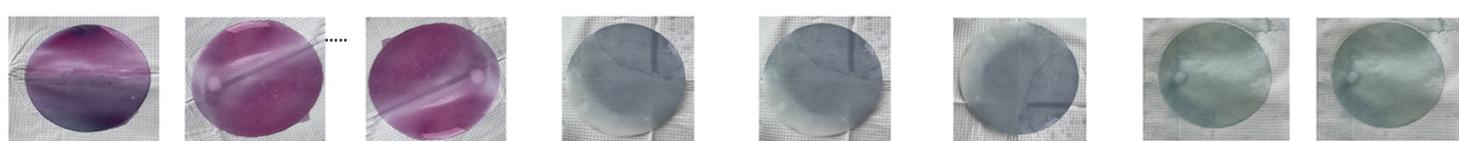
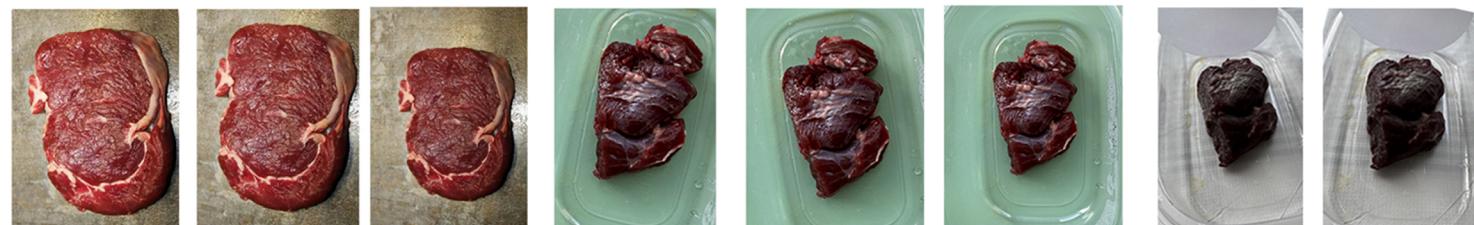
Start experiment, corresponding to Figure 3, put the test paper on the meat.



### Step3

Corresponding to Figure 5, the test paper has undergone a color change reaction.

## Meat Decomposition Process



## Observation

Anthocyanins, as water soluble natural pigments, exhibit relatively stable chemical properties in powder form but demonstrate high reactivity in aqueous solutions. Therefore, to utilize anthocyanins for detecting decaying gases, they must be maintained in a moist or solution state.

## Conclusion

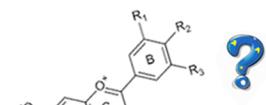
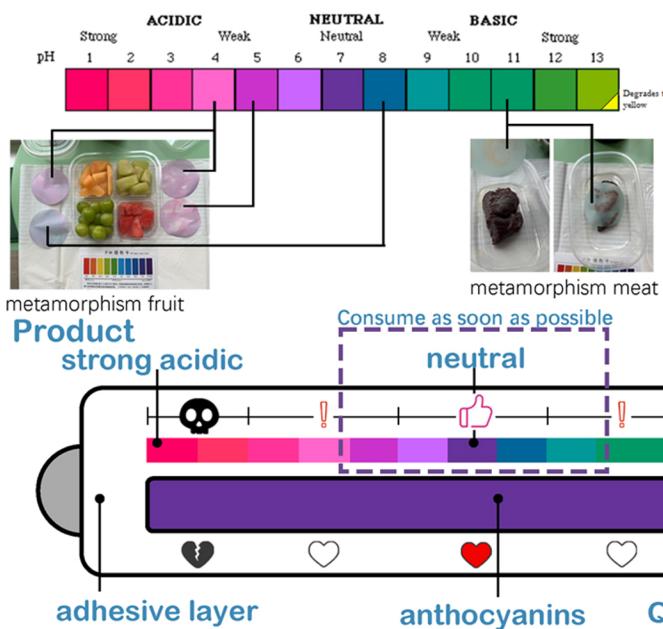
At room temperature, the freshness quality deterioration of beef during the post-mortem phase is indicated by monitoring changes in anthocyanin color.

## 7 Product Design Process

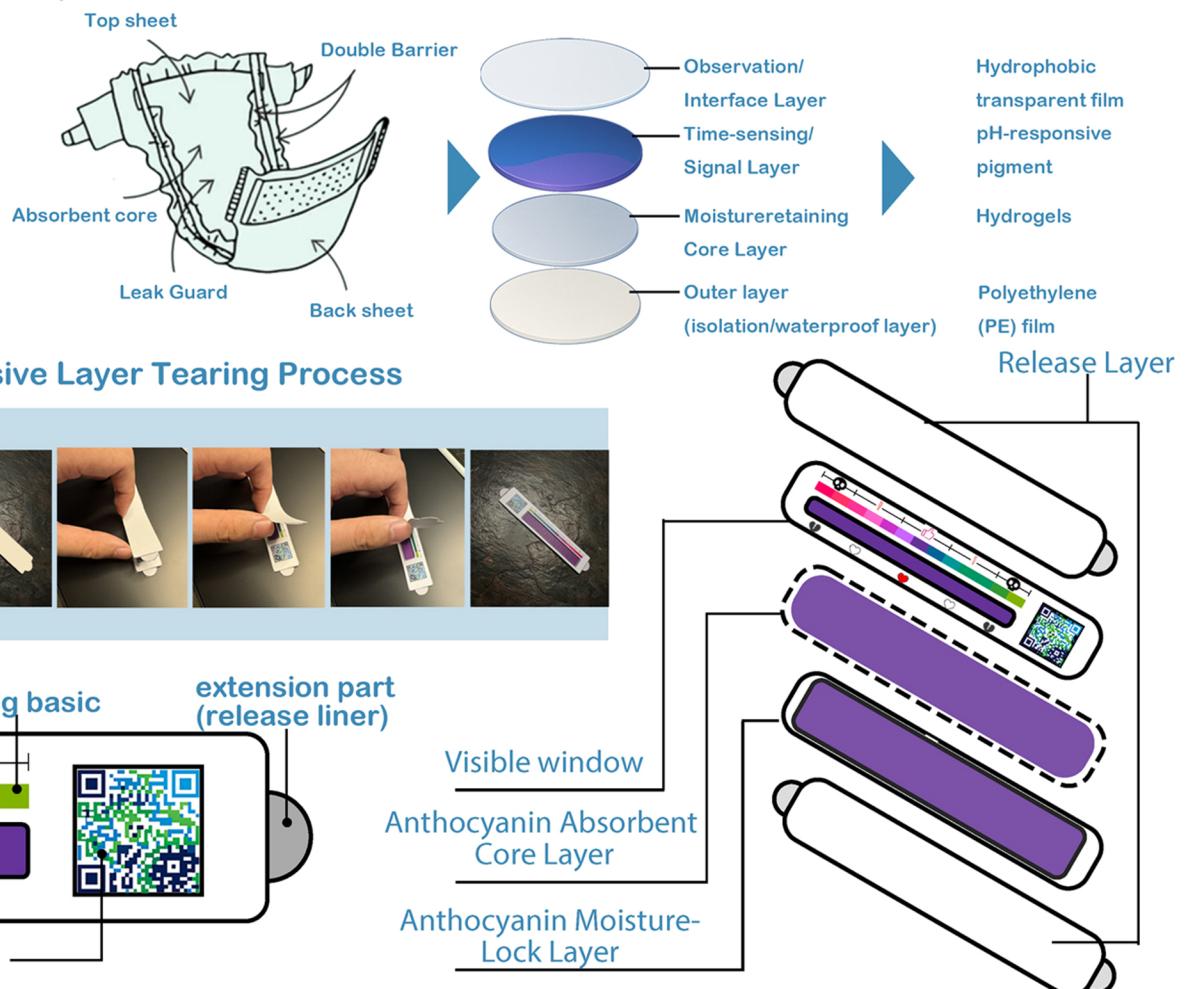
Conclusions and future research directions  
The experimental results indicate that when using anthocyanins to detect spoilage gases maintaining them in a moist or solution state is a necessary prerequisite.

Therefore, how to effectively maintain the appropriate humidity environment (moisture retention) of anthocyanin sensor units/materials has become a key technical issue that needs to be addressed to realize their practical application.

### Freshness Indicator



## 8 Inspiration



## 9 Interface



## 10 Scenarios



# Future

Future anthocyanin tags may introduce a new pricing indicator for supermarkets.



Consume  
as soon as  
possible



- Innovative
- Eco-Friendly
- Practical Application

Through interdisciplinary design and systematic verification, this product will provide new insights for smart packaging and biosensing fields, demonstrates the application potential of natural molecules in green sustainable technologies, and promotes their transition from laboratory top practical application.



# 04 Scan—Verse

## Overview

Aiming at a new generation of content recording methods , it generates realistic 3D images and restores memories in 360 degrees.

## Theme

3D Scanning  
Object Digital Preservation  
Gesture Interaction



## Background

### User Behavior Trends

#### The Rise of Digital Collecting



According to a Statista survey (2023), over 67% of Gen Z and Millennial users have tried recording important items or memories in digital form (photos, videos, memos, etc.).However, only 13% of users have tried 3D scanning technology, mainly due to high tool barriers and a lack of clear application scenarios.

#### Growing demand for personalized digital spaces



Adobe (2022) reported that over 72% of users hope to personalize their digital spaces in the future (e.g., customized avatars, virtual rooms, and collection walls);Especially in the fields of metaverse, virtual identities, and immersive memory preservation, demand for "self-curation" and "interactive memory" is rapidly increasing.

#### Preference for AR/VR Interaction



According to data from the XR Association (2023), 57% of AR users believe that "interacting with objects" is more immersive than "viewing information displays."Gesture-based interaction is considered one of the most natural input methods, particularly suited for "personalized emotional experiences."



Lily

I don 't just want to look at memories — I want to interact with my 3D objects like they' re still part of my world.



Yu

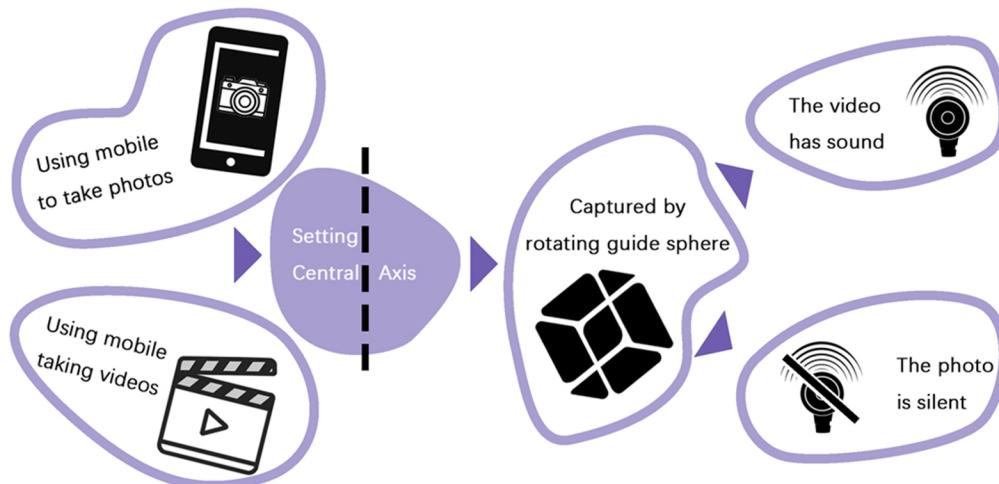
When I gesture at my scanned models and they respond — it' s like bringing my childhood inventions back to life.

## Conclusion

Creating a platform that can bothstore personalitems and enable interaction and curation with them in AR has become highly necessary. Therefore, ScanVerse was introduced to address this need: it not only solves the problem of "how to preserve," but also addresses the deeper need of how to make memories tangible and interactive.



## Photography and scanning process



## Scan Process

Step 1: Finding valuable object



Step 2: Capturing the object



Step 3: Generate Model into App



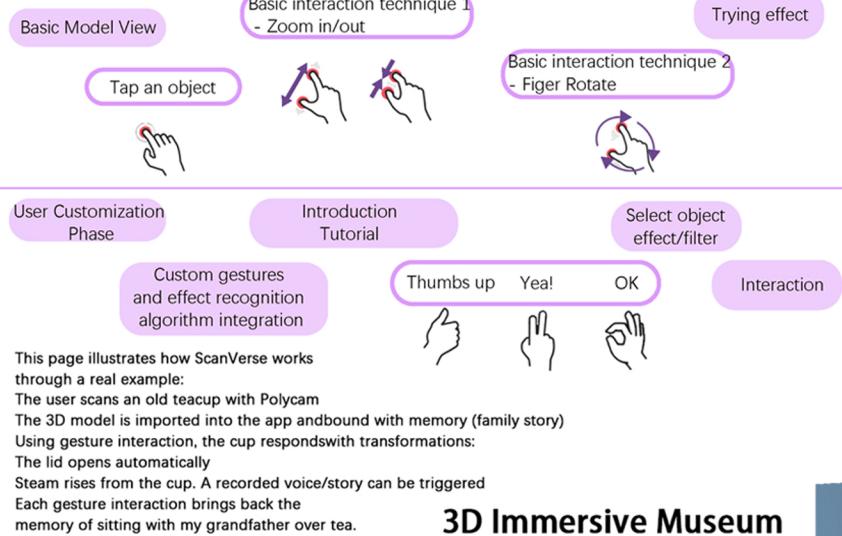
Step 4: View scanned items in the album



## Customize Gesture Interaction



## Interaction Flow



## Gesture training via Teachable Machine

The screenshot shows the Teachable Machine interface for gesture training:

- Default**: 27 Image Samples (Webcam, Upload).
- Gesture 1**: 38 Image Samples (Webcam, Upload).
- Gesture 2**: 50 Image Samples (Webcam, Upload).
- Preview**: Shows a video feed of a person's face.
- Output**: Shows classification results for Class 1 and Class 2.

**Code Snippets:**

```


<div><Teachable Machine Image Model - p5.js and ml5.js</div>
<script src="https://cdn.jsdelivr.net/npm/ml5@latest/dist/modejs.min.js"></script>
<script type="text/javascript">
  let classifier;
  let imageModelURL = './my_model/';
  let video;
  let flipVideo;
  let flipImage;
  let classification;
  let label = '';
</script>


```

```

flipVideo = ml5.flipImage(video);
classification();

```

```

function draw() {
  background(0);
  flipVideo();
  image(flipVideo, 0, 0);
  // Draw the label
  textSize(16);
  text(classification, width / 2, height - 40);
}

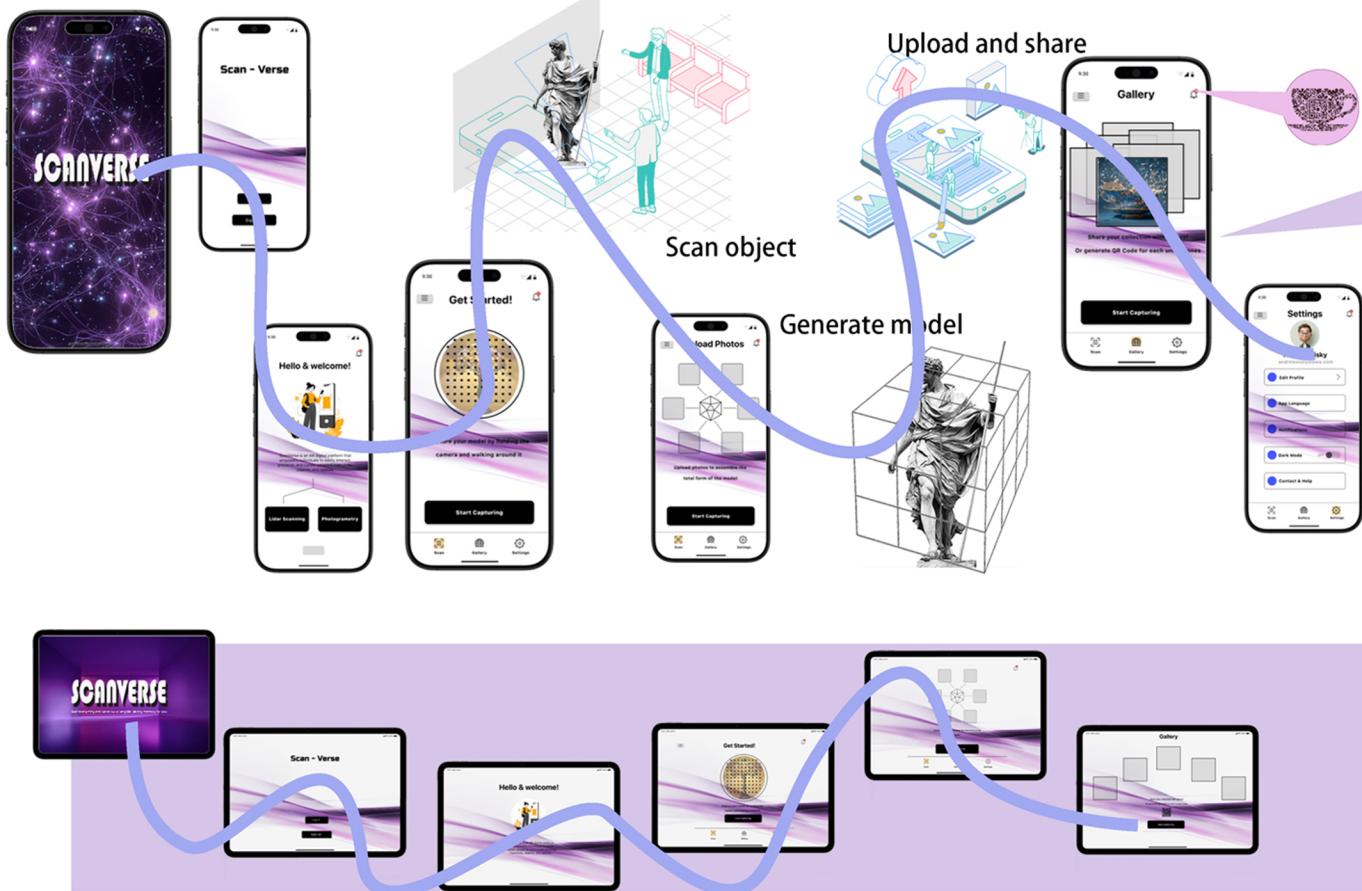
```



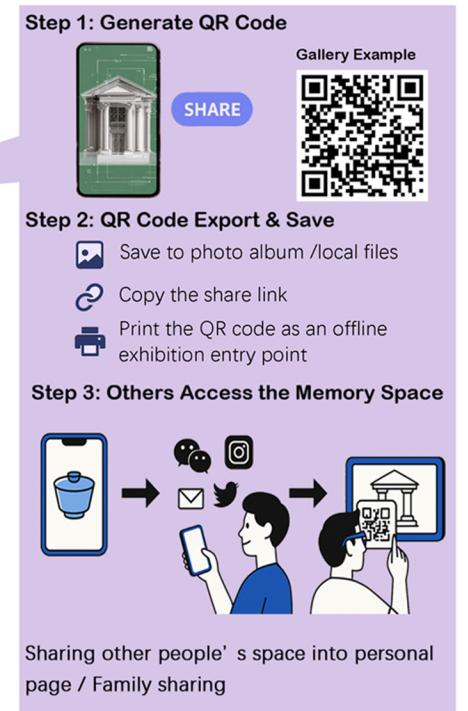
## 3D Immersive Museum



## Device Interface Display



## QR Code Generation & Sharing Flow



An interactive AR digital memory platform to allow users to collect, share, and interact personal memories and items in an immersive way.