



Yolkwave

Recipe Gesture design

■ UI / UX / Smoke Effect

◆ Introduction

This project is about a gesture interface design with a recipe app. When making food, users always need to wash their hands before viewing and flipping through the recipe. I want to create gesture interaction to address this issue, allowing users to quickly interact with different recipes and their pages, including text versions and videos, through simple gestures.



Research

What is Gesture?

A gesture is a movement—often of the hands, arms, head, or even facial expressions—that conveys meaning or emotion without the use of words.

Gestures are a key part of nonverbal communication and can express:

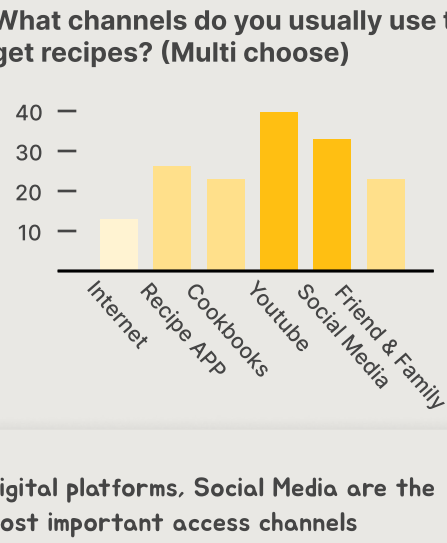
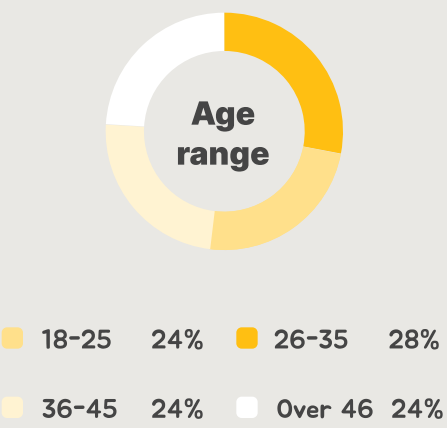
- Emotion
- Spoken language
- Culture

Cooking

Cooking is the process of preparing food by combining, heating, and transforming ingredients through various techniques. It is both an art and a science, as it:

- Chemical & physical changes
- Creative & personalization
- Culture

Online Survey



KIND OF GESTURE



Intentional

Intentional gestures are deliberate movements or poses made by the user to convey a specific command or input.



Unintentional

z

Recipe

Recipes serve as guides that help cooks replicate a dish consistently and can also be a medium for sharing culinary traditions across generations and cultures.

- A recipe is a set of instructions that outlines:
- Specific ingredients
 - step-by-step
 - Techniques



Summerize

This survey questionnaire is based on the analysis of a survey of 50 respondents, and the results show that the age distribution of users is balanced, covering various groups aged 18 to 46 and above. Most users need to further understand how to use gesture actions for interaction. Overall, these survey data validate the market demand and feasibility of developing gesture recognition based recipe software, which can help provide users with a more convenient and efficient cooking experience.



Green Screen

What is green screen?

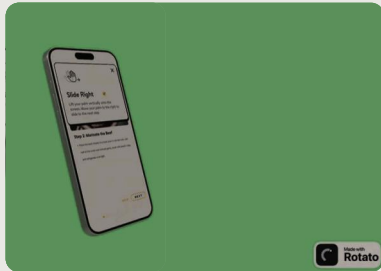
Green screen video is a type of special effects video that combines a large amount of materials created in front of a green screen and through electronic virtual production. Its application scenarios usually allow for easy implementation of difficult-to-achieve "special effects".

For example, in this project, I only need to use green screen filmmaking to create the process of interaction between myself and the app, rather than starting from the underlying logic to create a gesture recognition application.

This project will based on smoke effect

Rotato

Rotato is a 3D mockup tool for creating realistic, animated product presentations, mainly for UI/UX designs, apps, and websites. It's easy to use, requires no 3D skills, and exports high-quality visuals.



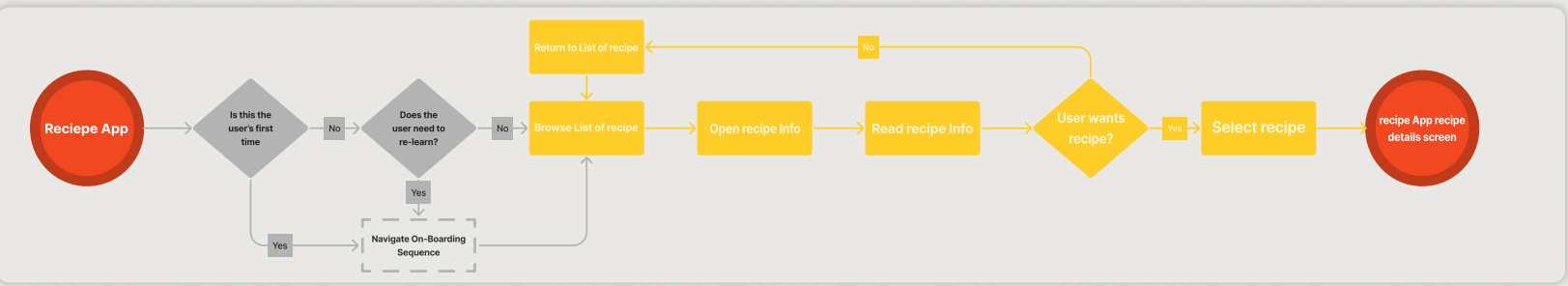
Hand

At the same time, how to fully detach the hand from the green screen is a very challenging task in the early stages of filming. Two photography lights actually need to illuminate the green screen separately. The arm needs to be illuminated separately through ambient light or supplementary light. This is the only way to obtain a front and back scene separation, without significant color changes in the green screen, and a clean pre-green screen video.

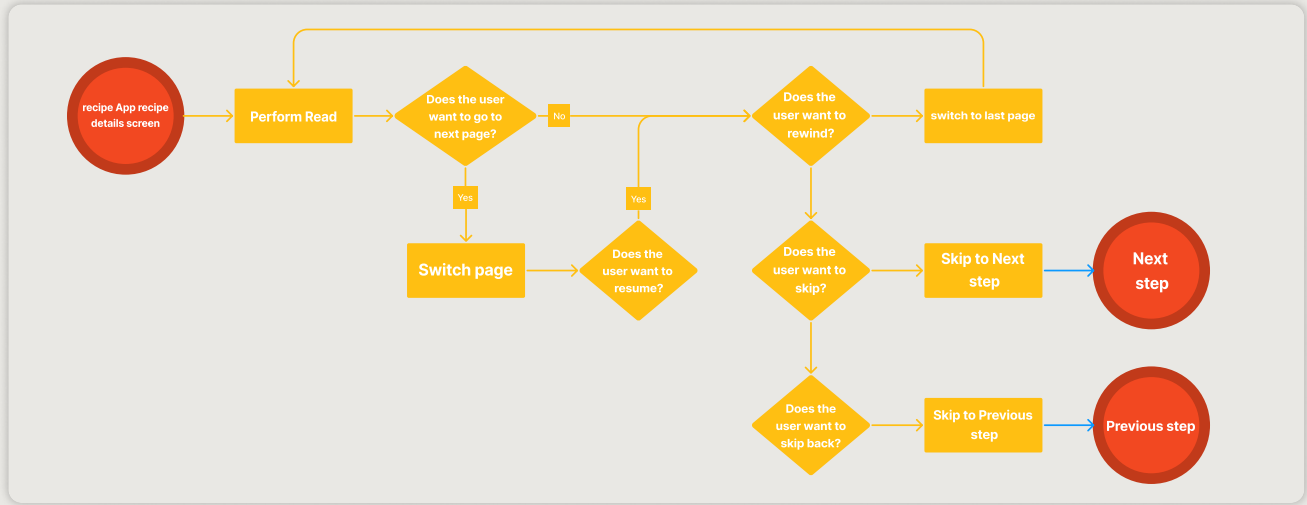


User flow

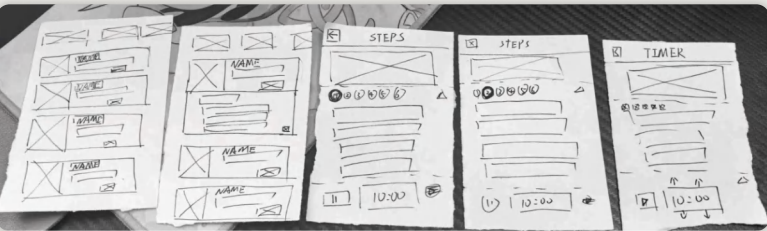
UI Patterns for Task Flow No.1:



UI Patterns for Task Flow No.2:



User test



Feedback

Based on user feedback, I ultimately abandoned the video feature and added an automatic timer function based on recipes. At the same time, I changed my page flipping gesture for easier operation and recognition.

Persona

LINA



Background:

- 3 / weeks
- Only 1-2 times
- Get recipe From Recipe APP

Demographics

- 28
- Female
- Marketing Specialist
- 4500 \$ /mo
- SF, CA
- Single

Pain Points & Needs:

Desires a gesture-based interface that can handle tasks like flipping pages, or adjusting recipe details without direct contact.

Sahra

Demographics

- 55
- Female
- Retired Teacher
- 2500 \$ /mo
- NY
- Married

Background:

- Everyday
- Never use Gesture app
- Want to start learn how to cooking

Pain Points & Needs:

I hope there is a software that can teach me how to cook step by step



User testing

Gesture library



Gesture Name: Touching chin

This is an unintentional action. Usually appears when someone is receiving information. This gesture means that someone is thinking



Gesture Name: point at

This is a deliberate gesture. Usually appears when conversing with others. It is a gesture that hopes to attract the attention of others



Gesture Name: Crossed arms

This is an unintentional gesture. Usually appears when people are receiving information. A gesture of defensiveness or discomfort.



Gesture Name: Point something

This is a deliberate gesture. Usually appears when expressing opinions. This is a gesture that represents comparison and contrast, Or means 'step by step'.



Gesture Name: cover up mouth

It's a deliberate gesture. Usually appears during conversations with multiple people. A gesture indicating avoidance



Gesture Name: Raise hands

This is a deliberate gesture. Usually appears when threatened or intentionally seeking to avoid something. This is a gesture that indicates 'nothing to do with me' or 'innocence'

About Gesture

Gestural interfaces enable users to interact with digital devices directly, sometimes without the need for physical hardware that we have to touch - enabling us to use our fingers, hands, arms and even our whole bodies as the interface to a screen, an object or a responsive environment. Compared with tapping keys on a keyboard, gestural interfaces can include a much wider range of actions, and sometimes feel so natural, they feel 'invisible' to the user.

Style guild

New Recipe Super simple, super delicious!
Step 1: Material preparation
Search Food Recipe Here.

Read info
A strawberry smoothie is a blend of strawberries, milk or yogurt, and optional sweeteners like honey, often with ice or bananas. It's a tasty, nutritious drink rich in vitamin C and antioxidants.

- 1 cup fresh or frozen strawberries
- 1/2 cup milk or yogurt

NEXT

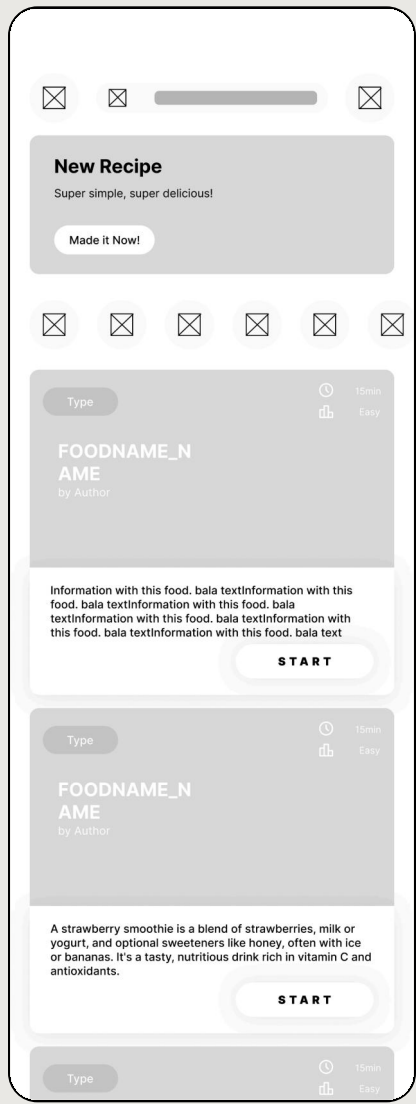
INTER

Thin	ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890	Medium	ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890
light	ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890	Semi-Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890
Regular	ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890	Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890

COLOR PALETTE

Yellow	HEX	#FFC012
This is a harmonious and appetizing color.		
Black & Grey	HEX	#000000

Wireframe



Scroll
Wave down to browse recipe



Select
Double click finger to select recipe



Back
Move hand left to view the last step



Start Timer
Press hand to start timer



Next
Move hand right to view the next step



Stop Timer
Press Again to stop timer



Add Recipe
Press to confirm



Not Add Recipe
Shake hand to cancel

- 1 Home Page
 - 2 Step 1
 - 3 Step 2
 - 4 Timer: Stop
 - 5 Timer: Start
 - 6 Finish Recipe
 - 7 Add recipe book
- a Scroll and select a recipe you like
- b Easy to move hand right to going to step2
- c You can use timer if the recipe need it
- d Press to start timer or stop
- e Final finish all the steps!
- f Press to add to recipe, or shake hand to cancel



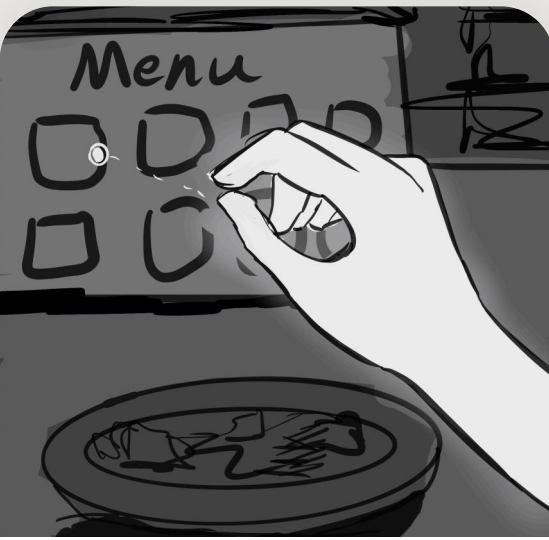
The man is cooking



The man wanted to flip through the recipe, but at this moment, he found his hands stained with food and oil



The man pinched two fingers and the cursor on the screen moved with them



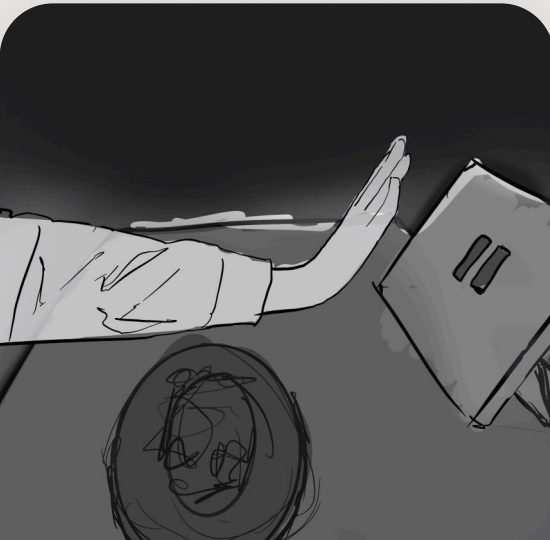
The man saw a recipe he wanted and then double clicked his finger to select it



Men flip their palms to the left to browse through recipes



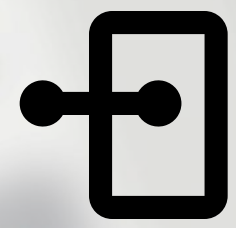
After the man's palm was down, the recipe switched from the text version to the video version



The man presses his palm down to start the video



Subsequently, the man rolled his hand to the left to retract the video he had just watched



Final
Solution

Video Link:

<https://youtu.be/ohF0MODs4Gk>

Main Tool: AE, Rotato, PR, Figma

YOLK-
WAVE

