

# Dishcovery

## High-Fi Prototype V2

Abena Ofosu, Sharon Wambu, Kayla Kelly, Defne Genc

# Our Dishcoverers

Defne



Dish of choice:



Sharon



Dish of choice:



Abena



Dish of choice:



Kayla



Dish of choice:



# Presentation Outline

01

## A Recap

Improvements to our interface.

02

## Interface Changes

Changes we've made based on takeaways from testing.

03

## Task Flows

A quick walk through the execution of each task.

04

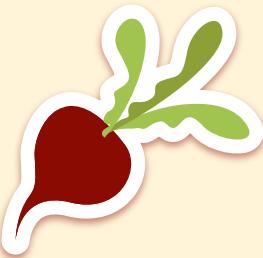
## Future Trajectory

What we want to improve and implement.

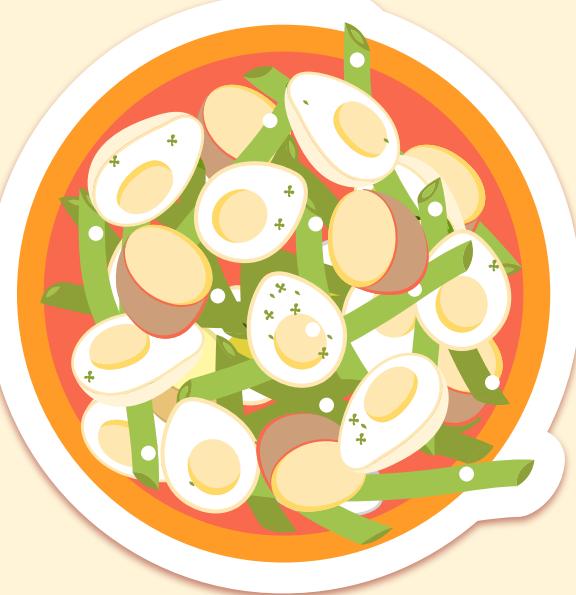


01

# Introduction

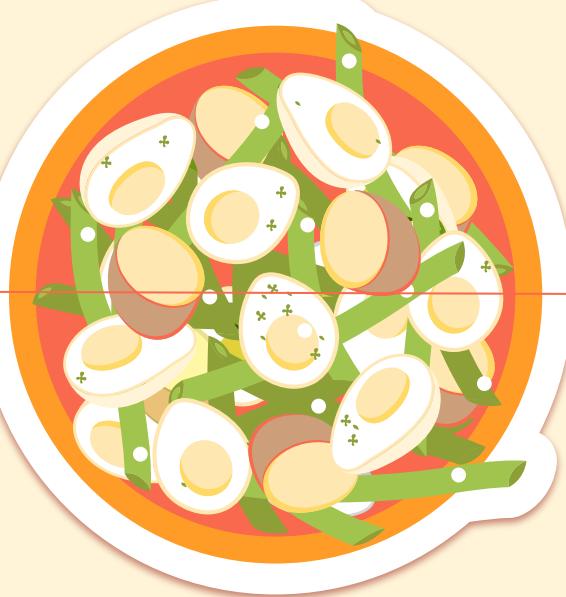


# Problem Statement



Learning about and creating food with **ingredients** from other cultures can be an **intimidating experience**.

# Our Solution



**Dishcovery** helps you recognize, learn about, and cook with foods from around the world.

# Proposed Value Propositions



## Culinary Exploration

Dishcovery makes unfamiliar ingredients speak for themselves



## Cultural Transmission

Bridge the knowledge gap preventing users from trying new recipes



## Integrity

Unique method of sourcing guarantees authenticity



# Unique Value Proposition



## Culinary Exploration

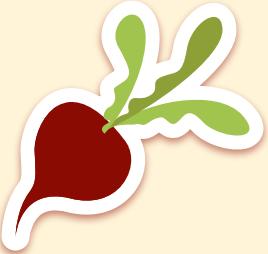
Dishcovery makes unfamiliar ingredients speak  
for themselves





02

# Interface Changes



# Usability Testing Takeaways

## Efficiency

**Relevant context and recipes.**

Take into account the information participants said they felt were most valuable on the app.

**Discarding unnecessary steps.**

Things like double scan confirmation could become more intuitive.

## Learnability

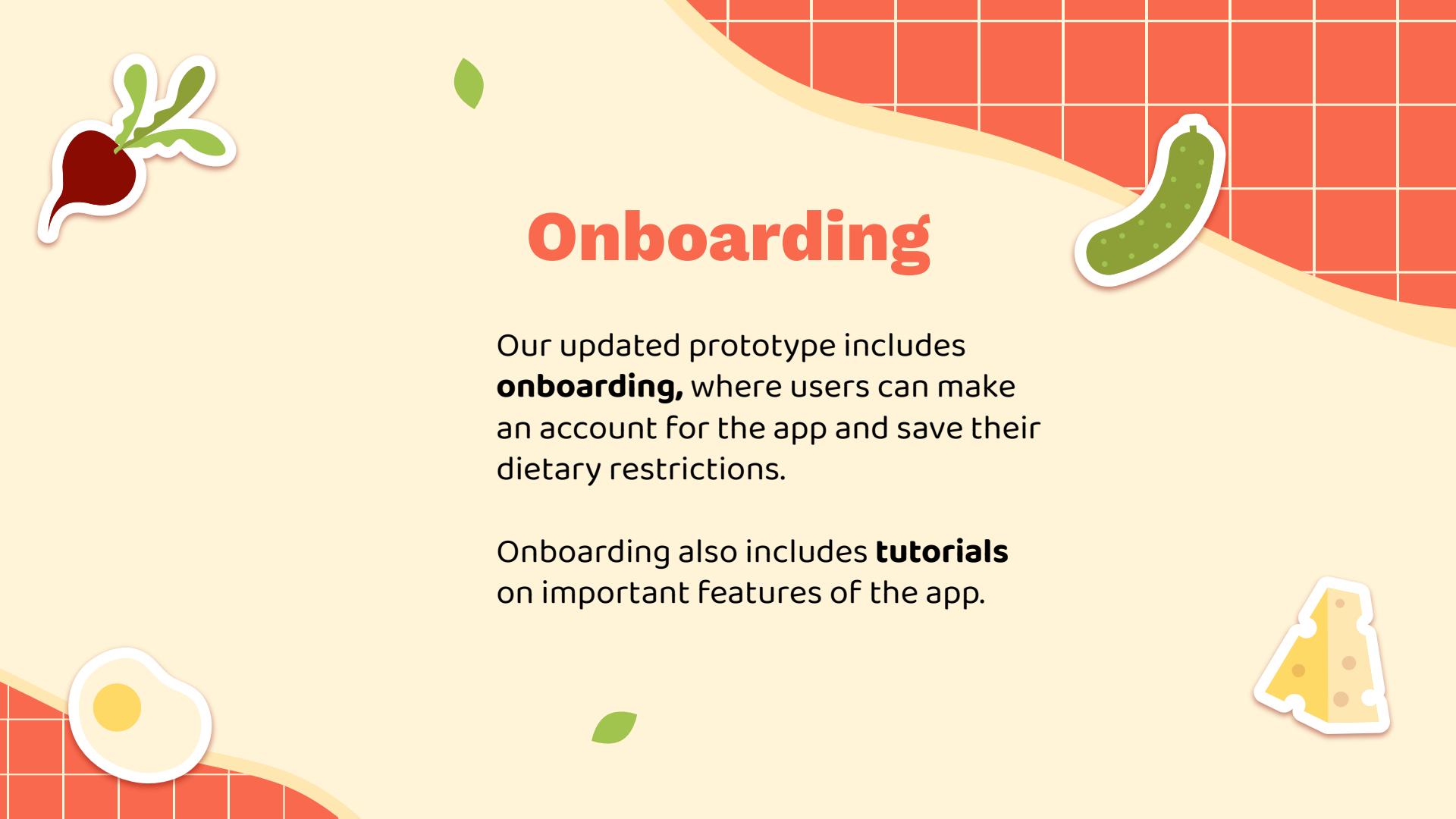
**Scanning and browsing.**

Make sure to include sufficient onboarding to make central functionality (scanning) clear.

**Ordering of tasks.**

Giving the user the option to see recipes before reading the context, in case they have already or would not prefer to.

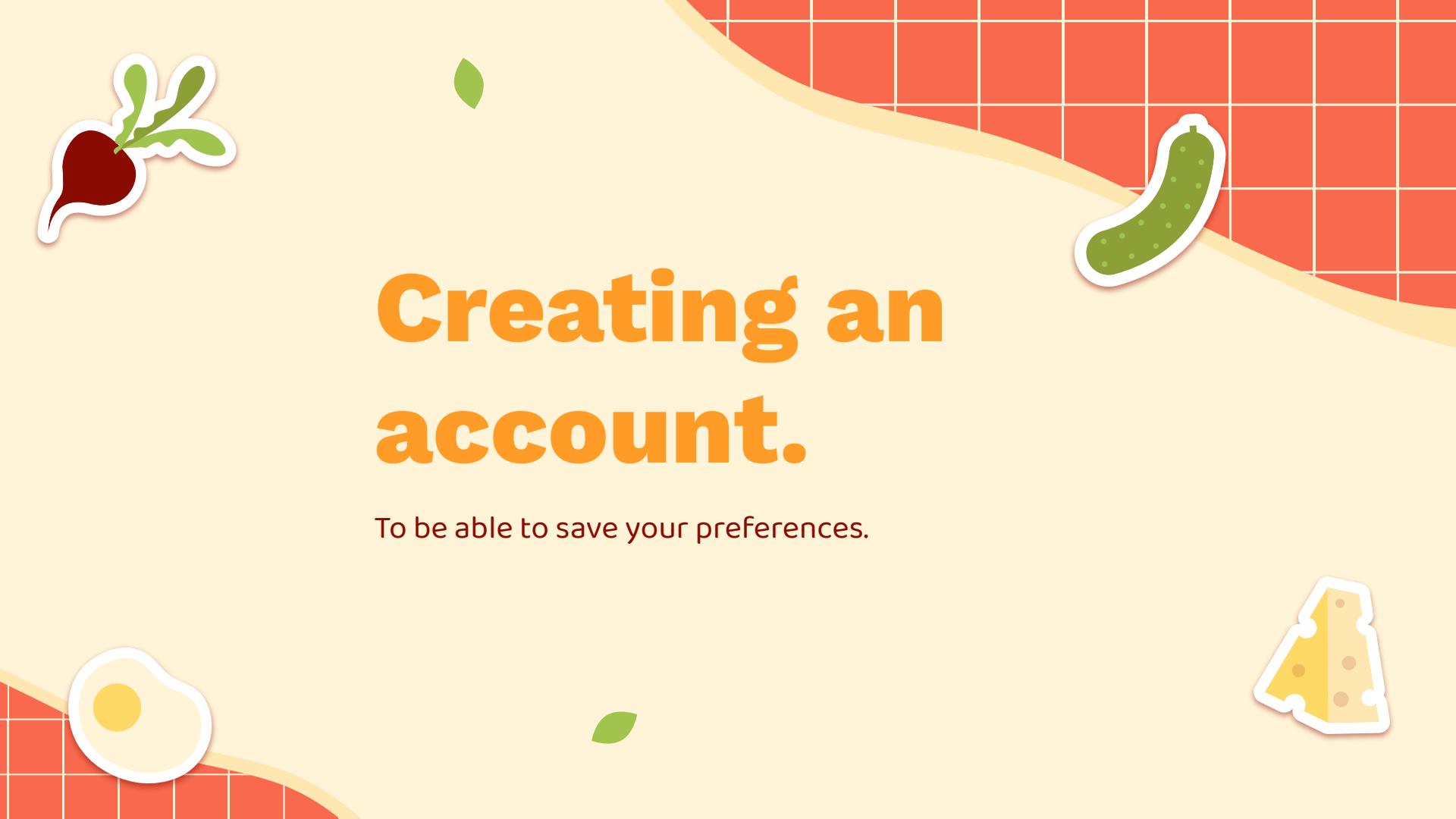




# Onboarding

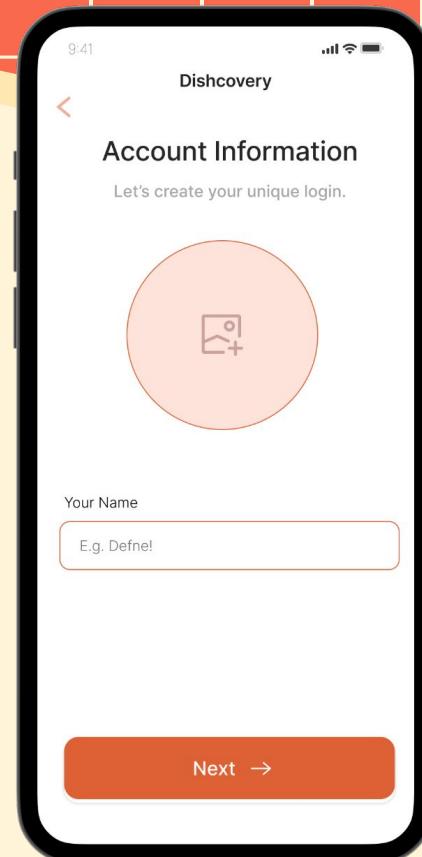
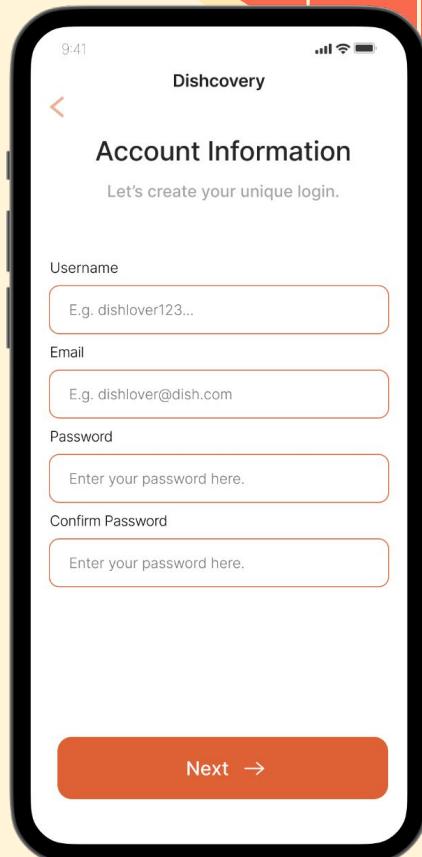
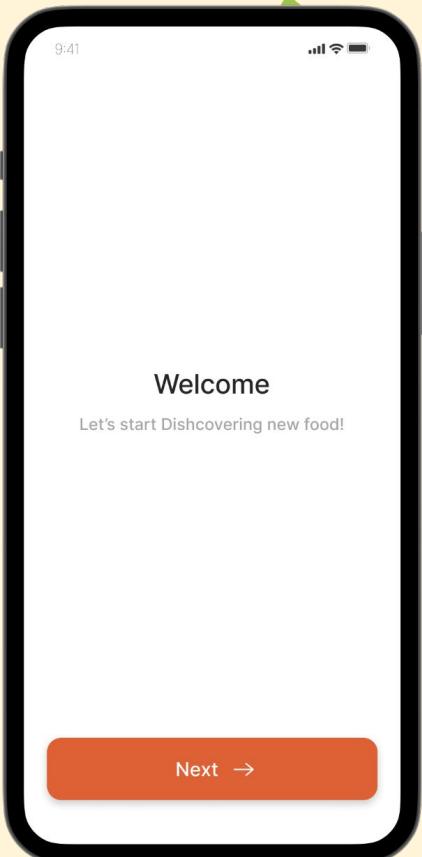
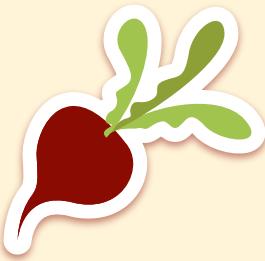
Our updated prototype includes **onboarding**, where users can make an account for the app and save their dietary restrictions.

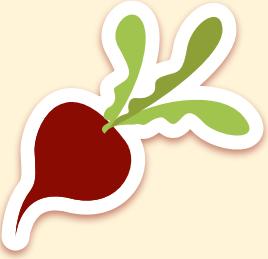
Onboarding also includes **tutorials** on important features of the app.



# Creating an account.

To be able to save your preferences.

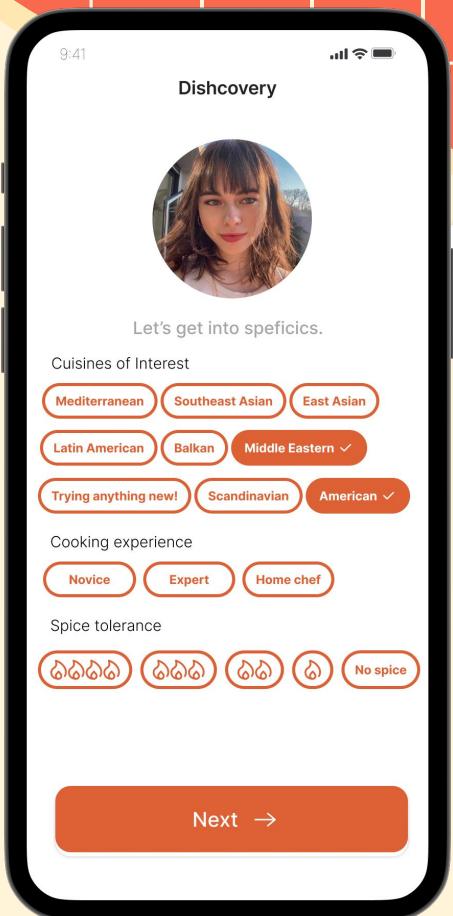
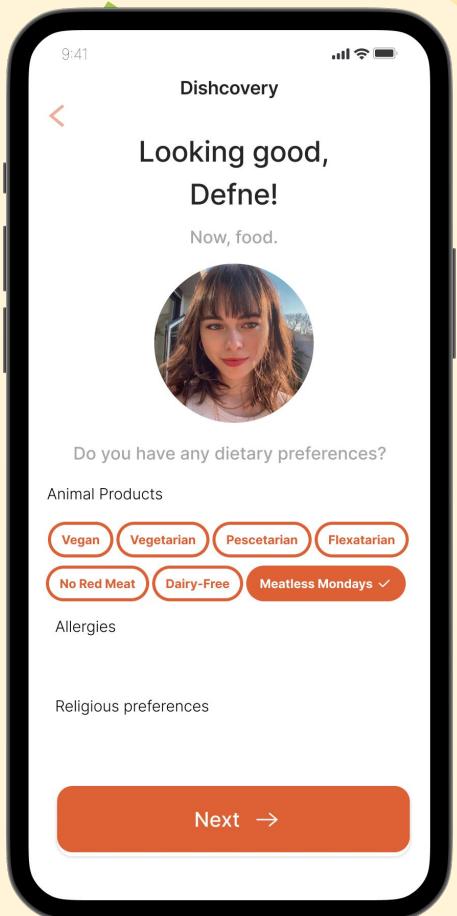
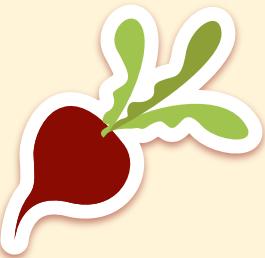


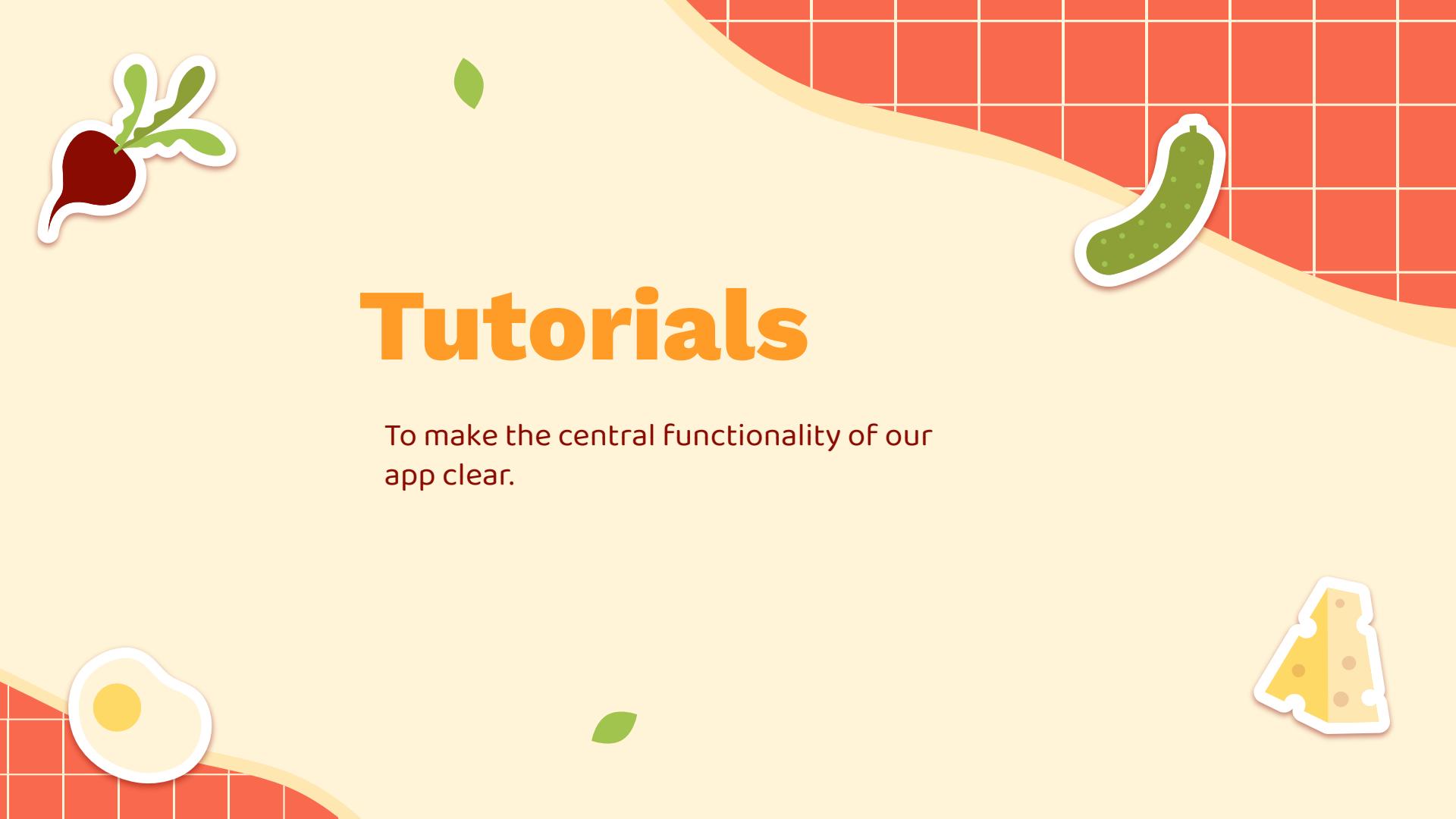


# Setting up dietary preferences.

As part of our onboarding process.

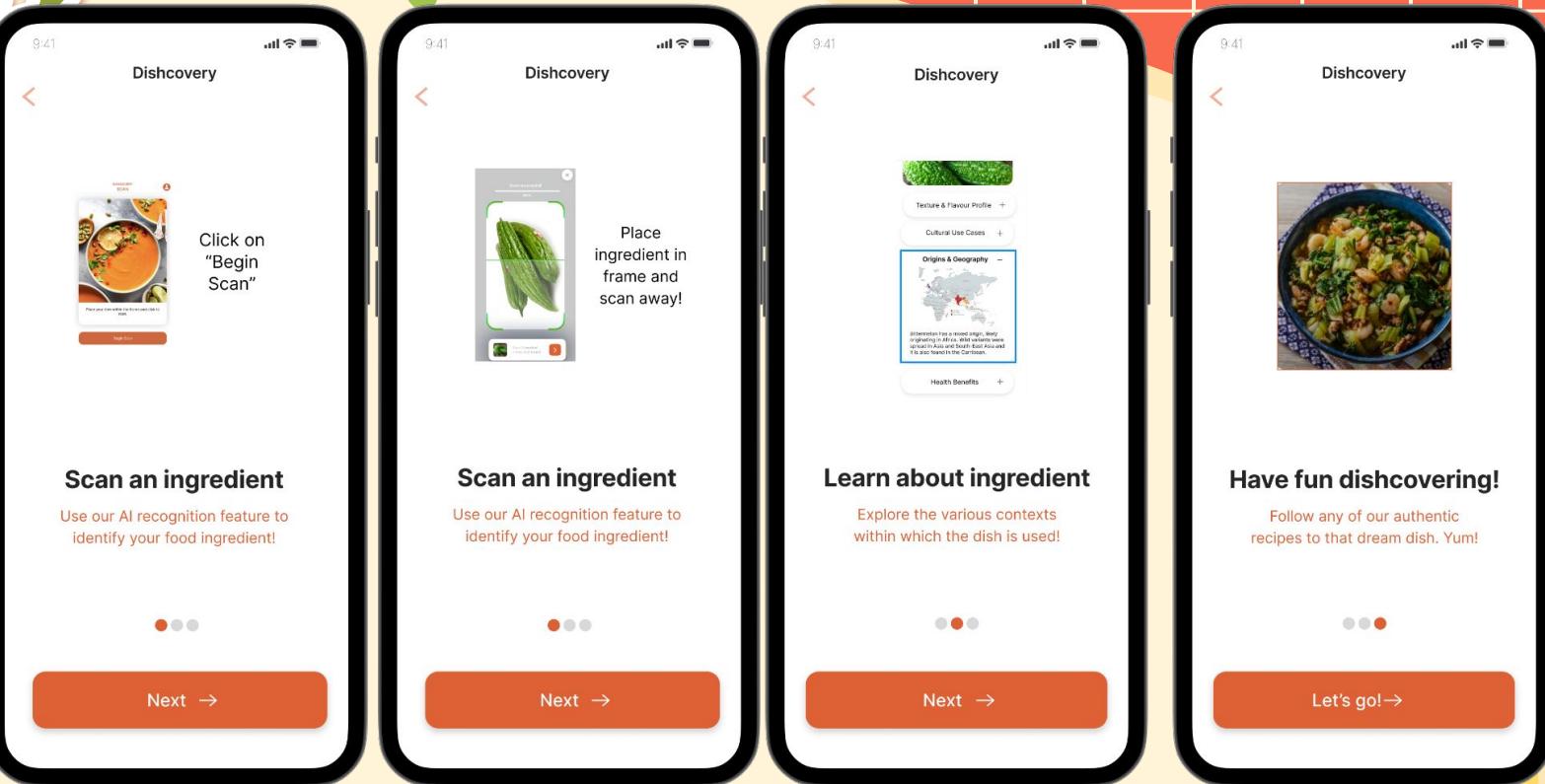


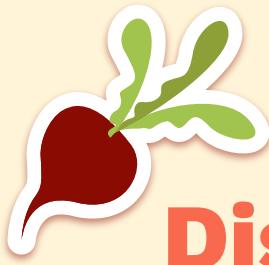




# Tutorials

To make the central functionality of our app clear.

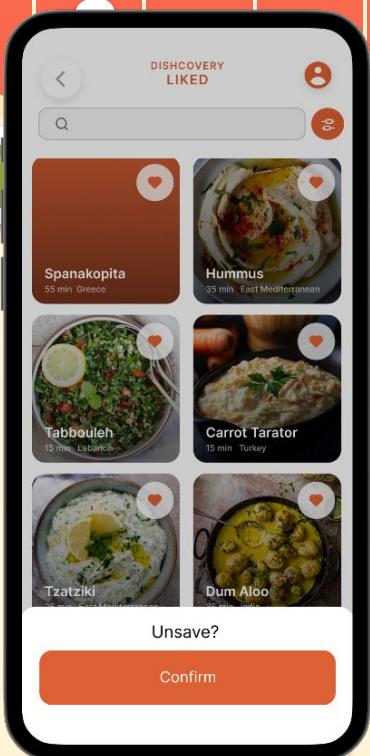
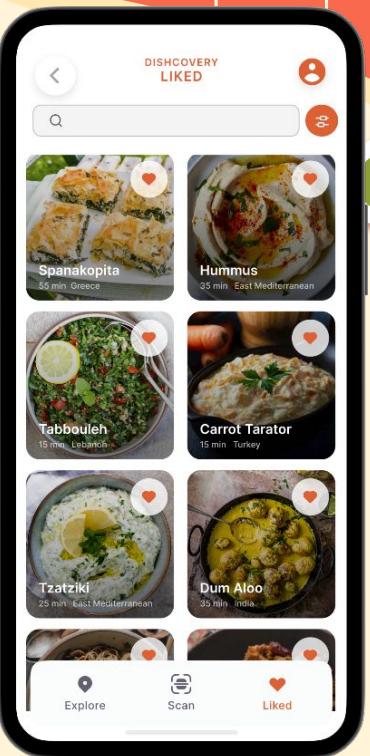
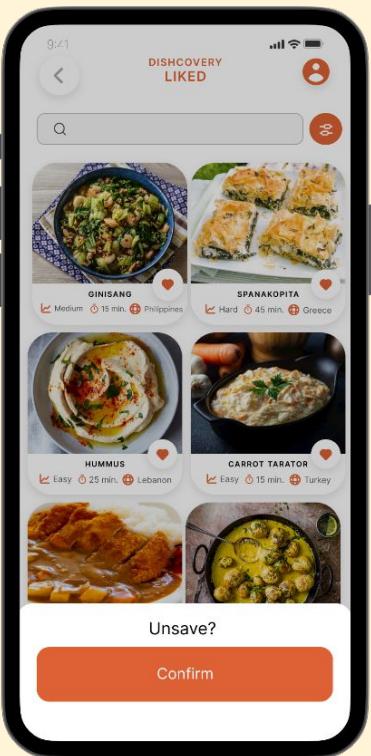
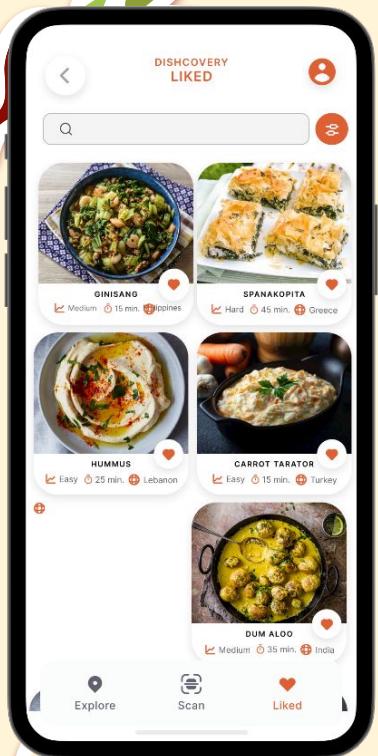


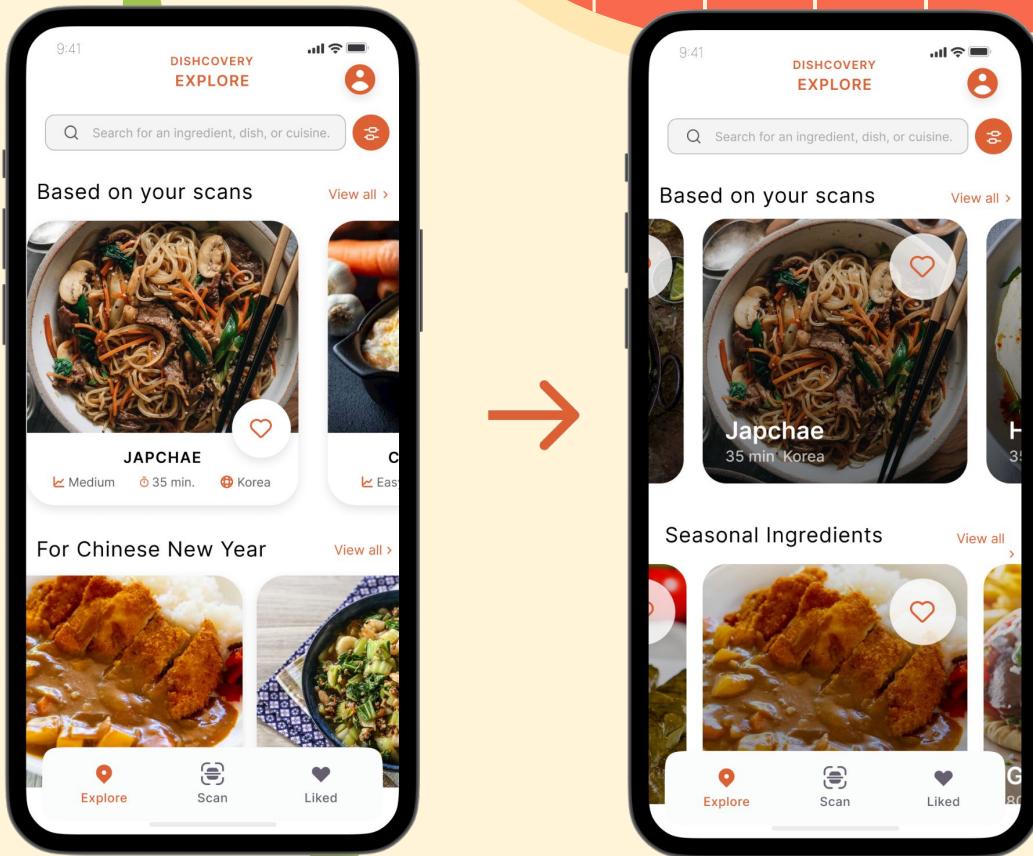


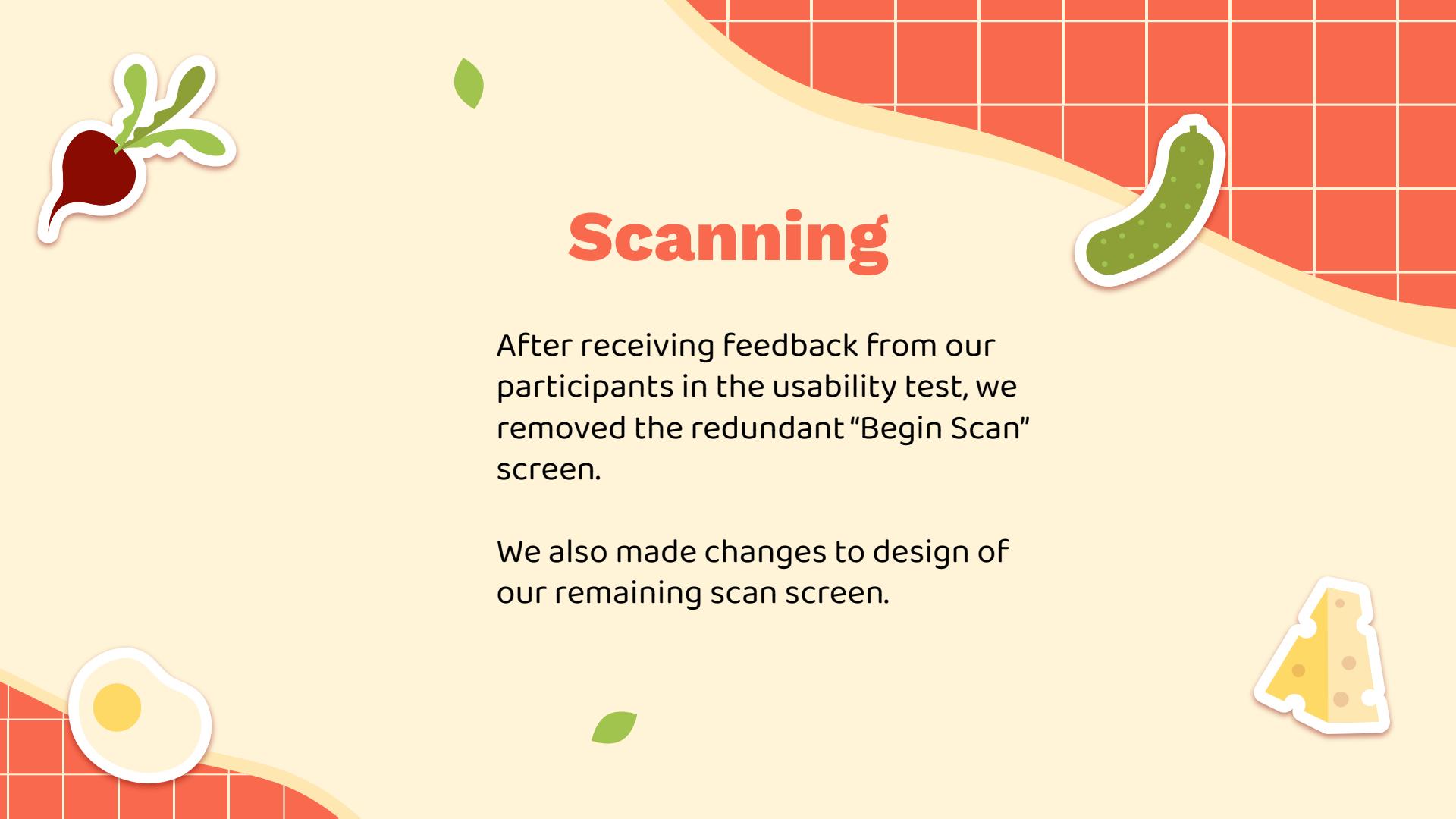
# Discard Design

To make explore pages feel less cluttered.





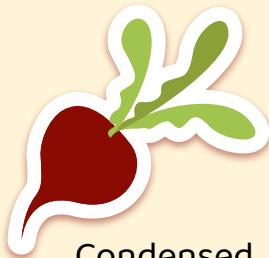




# Scanning

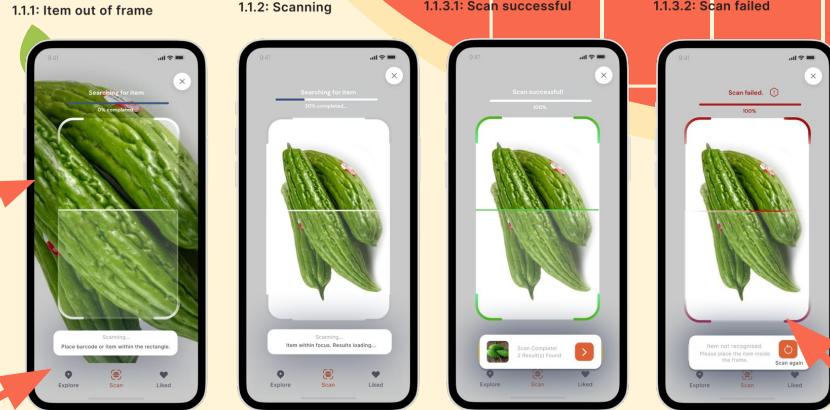
After receiving feedback from our participants in the usability test, we removed the redundant "Begin Scan" screen.

We also made changes to design of our remaining scan screen.



Condensed information into one section

Removed aggressive shadows



Removed rectangle that served no function.





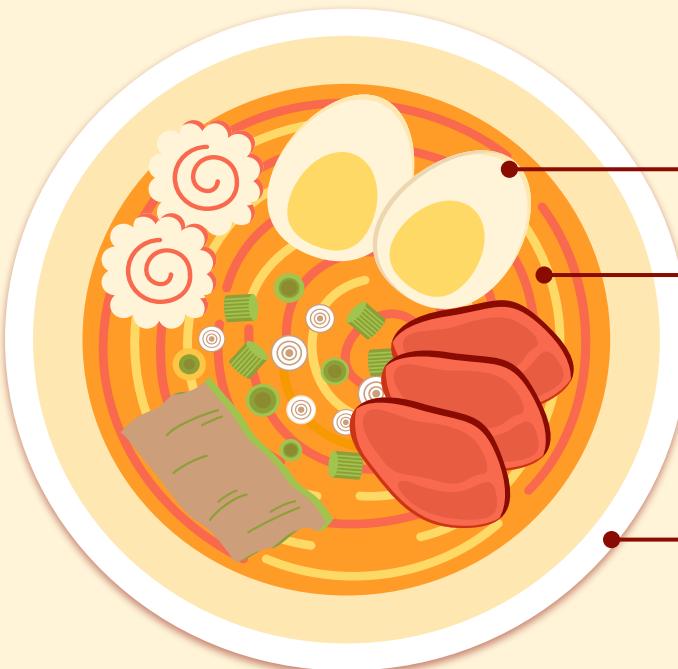


03

# Task Flows



# Recap of our Task Flows



## 1 Search

For an unfamiliar food item through scanning.

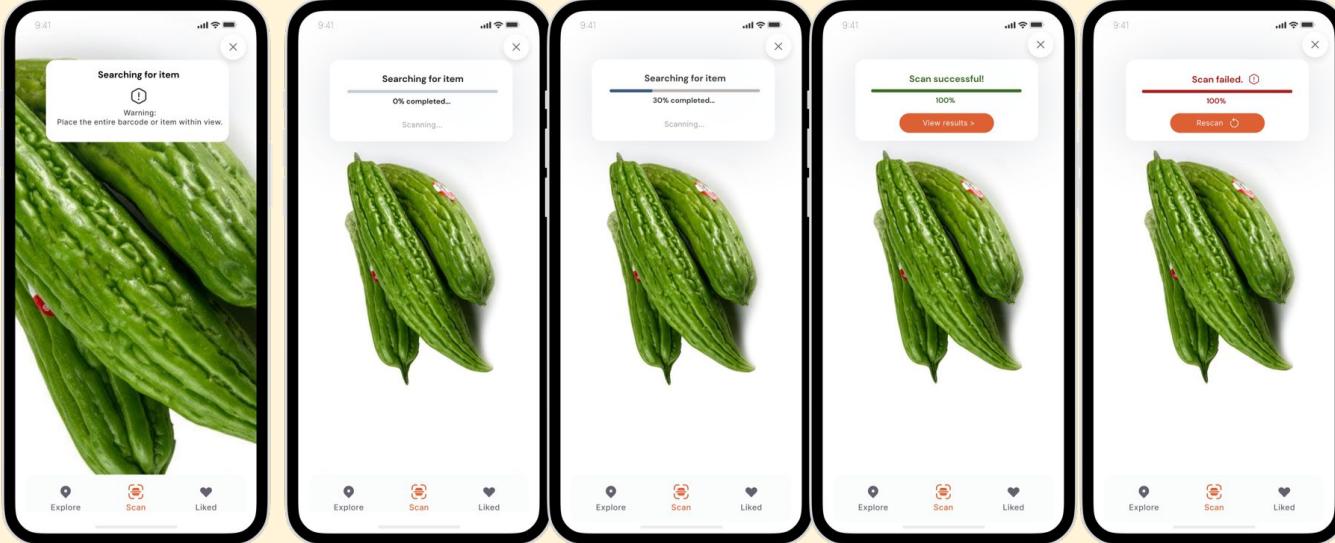
## 2 Contextualise

Using the information provided in the app.

## 3 Authentic Cooking

Through recipes the user finds and/or saves.

# Scanning an ingredient.



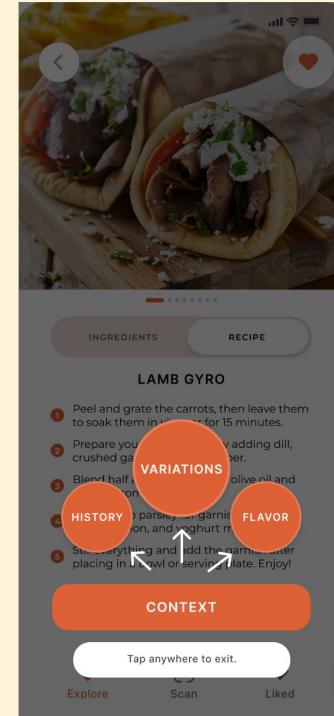
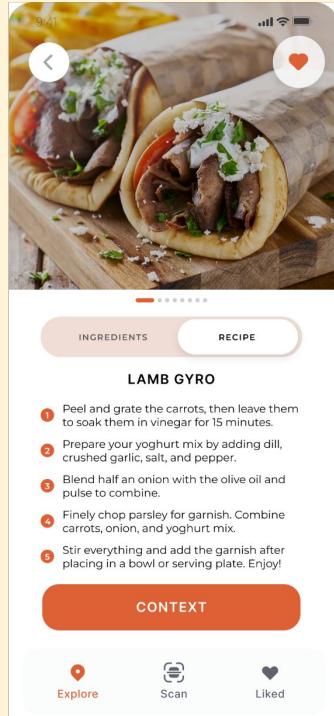
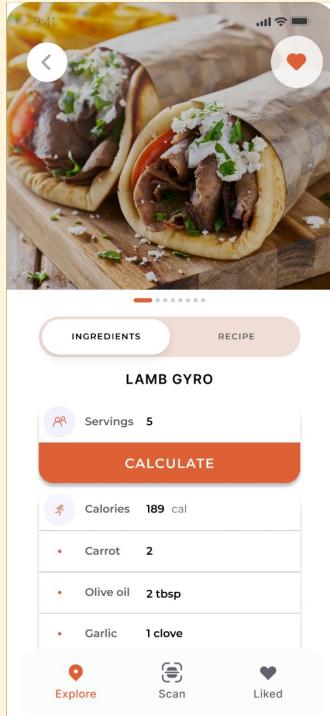
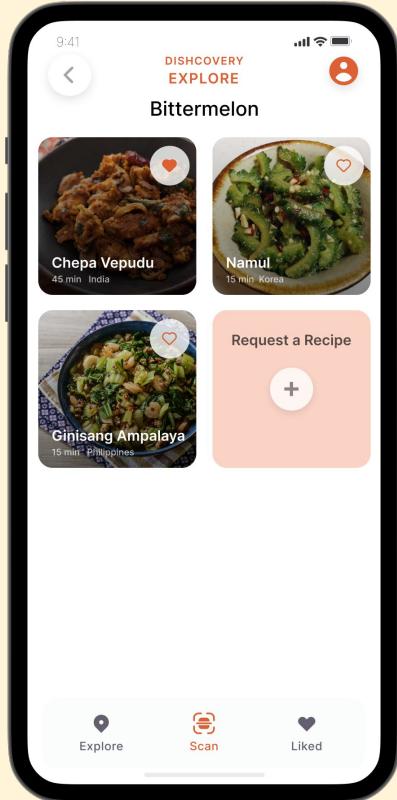
# Ingredient context.

We kept this mostly the same, but have room to make more changes in the next iteration.

The grid displays nine mobile phone screens illustrating different aspects of ingredient context:

- 2.1: A name to the face**: Shows a scan interface with a 99% match for Bittermelon, along with two images of bittermelon and their respective 100% and 10% matches.
- 2.2: Ingredient context landing**: The main landing page for Bittermelon, featuring a large image, a Texture & Flavour Profile section, a Cultural Use Cases section, an Origins & Geography section, a Health Benefits section, and a "Explore Recipes" button.
- 2.2.1: Texture & Flavour**: A detailed view of the Texture & Flavour Profile, which includes a description of its sharp, bitter flavor and its similarity to cucumber.
- 2.2.2: Cultural Use Cases**: A detailed view of the Cultural Use Cases section, which includes a description of its use in Chinese cooking and its use in Caribbean dishes like Ackee & Saltfish.
- 2.2.3: Origins & Geography**: A detailed view of the Origins & Geography section, which includes a map of Africa and a description of its global distribution.
- 2.2.4: Health Benefits**: A detailed view of the Health Benefits section, which includes a description of its health benefits such as supporting healthy digestion and reducing blood sugar levels.
- 2.3: Alternate Names**: A modal showing alternative names for Bittermelon in various languages, including Bitter Gourd (English), Karela (Hindi), Jantot (Malay), Ampalaya (Tagalog), kāküd (Chinese), and Akoči (Haitian).
- 2.4: Recipes using ingredient**: A screen showing a grid of four recipe cards, each featuring a different dish made with Bittermelon.

# Cooking with that ingredient.



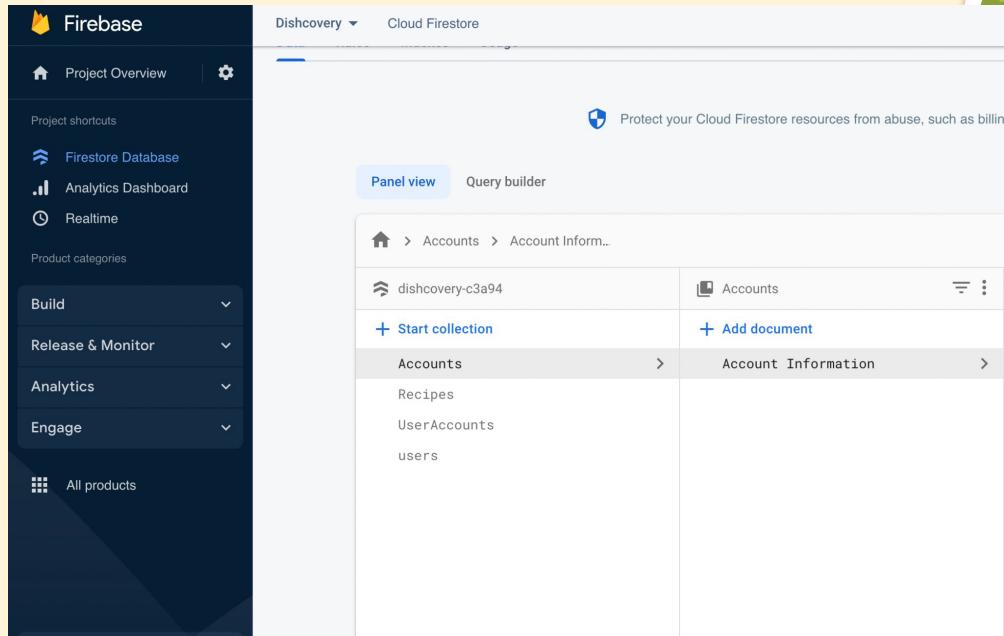
# Backend

We used Firebase for our User Authentication and Database.

Recipes and User Information are currently stored in our Database.



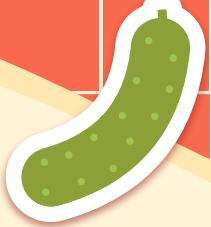
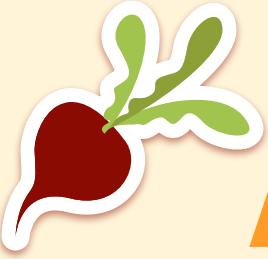
# Backend



The screenshot shows the Firebase Cloud Firestore interface. At the top, there's a navigation bar with the project name "Dishcovery" and the "Cloud Firestore" tab selected. Below the navigation bar, there are two tabs: "Panel view" (which is active) and "Query builder". The main area displays a hierarchical database structure under the "Accounts" collection:

- Accounts
  - Recipes
  - UserAccounts
  - users

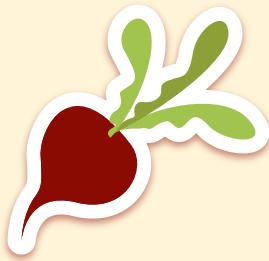
On the left side, the Firebase navigation sidebar is visible, showing options like Project Overview, Firestore Database, Analytics Dashboard, and Realtime. The "Build" section is expanded, showing "All products".



# Authentic recipe sourcing

How we collected our initial data from real people with real experiences with authentic cooking.





# Method



We sent out a Google Form to as many people as possible and asked them to share with friends and family.

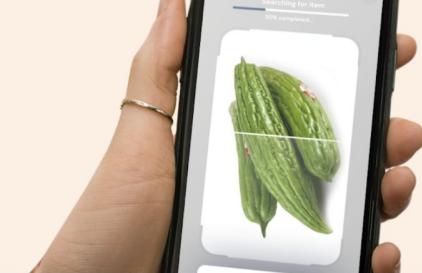
We asked for a link to the closest recipe they could find online to their desired dish.

This ensured that the recipe sourcing process wasn't too high-effort for these participants.





# The Google Form



A smartphone is held horizontally, displaying a search interface. The screen shows a green bitter gourd with the text "Searching for item" and "0% completed".

**Dishcovery**  
Your cultural culinary  
assistant

## Recipe Sourcing for Dishcovery

We'd love your help in sourcing any **authentic recipe** that feels close to home.

(Optional) Your name.



= Short answer



Recipe Sourcing for Dishcovery (Responses) ☆ Cloud

File Edit View Insert Format Data Tools Extensions Help

undo redo print text size 100% currency percentage value date Default (Arabic) 10 font style bold italic underline text color grid lines row height column width filter sort insert format data validation conditional format script ⋮A1 Timestamp

	A	B	C	D	E	F
1	Timestamp	(Optional) Your name.	Name of dish	Where it's from	Link to the closest recipe	(Optional) If you'd like to v (Opt)
2	2/1/2023 16:41:02		Chiles en Nogada	Mexico	<a href="https://cooking.nytimes.com/recipes/1020418-chiles-en-nogada">https://cooking.nytimes.com/recipes/1020418-chiles-en-nogada</a>	
3	2/1/2023 16:47:27		Bibimbap	Korea	<a href="https://www.maangchi.com/recipe/bibimbap">https://www.maangchi.com/recipe/bibimbap</a>	
4	2/1/2023 16:47:45		Bulgogi	Korea	<a href="https://www.maangchi.com/recipe/bulgogi">https://www.maangchi.com/recipe/bulgogi</a>	
5	2/1/2023 16:49:27		Japchae	Korea	<a href="https://www.maangchi.com/recipe/japchae">https://www.maangchi.com/recipe/japchae</a>	
6	2/1/2023 16:49:43		Kimchi jjigae	Korea	<a href="https://www.maangchi.com/recipe/kimchi-jjigae">https://www.maangchi.com/recipe/kimchi-jjigae</a>	
7	2/1/2023 21:43:44	Olivia	Tomato and Egg	China	<a href="https://cooking.nytimes.com/recipes/1018570-chinese-stir-fried-tomato-and-egg">https://cooking.nytimes.com/recipes/1018570-chinese-stir-fried-tomato-and-egg</a>	
8	2/2/2023 4:29:42		Effusive Soup	Nigeria	<a href="https://cheflolaskitchen.com/egusi-soup-recipe/">https://cheflolaskitchen.com/egusi-soup-recipe/</a>	
9	2/2/2023 13:36:34	Maha	بلاط Balelah	I believe syria		<a href="https://www.supermama.r">https://www.supermama.r</a> Chick
10	2/2/2023 14:07:35		Saleeg	Saudi Arabia	<a href="http://www.cookingwithalia.com/saleeg-saudi-rice-dish/">http://www.cookingwithalia.com/saleeg-saudi-rice-dish/</a>	
11	2/2/2023 14:14:25	Sumayyah Alsabri	Kabsah	Saudi Arabia	<a href="https://m.facebook.com/mishobaeshen/videos/330830301">https://m.facebook.com/mishobaeshen/videos/330830301</a>	
12	2/2/2023 21:50:06		Moussakas	Greece	<a href="https://www.mygreekdish.com/recipe/mousakas/">https://www.mygreekdish.com/recipe/mousakas/</a>	
13	2/2/2023 21:50:29		Mosaiko	Greece	<a href="https://www.kopiaste.org/2016/11/kormos-easy-chocolate-">https://www.kopiaste.org/2016/11/kormos-easy-chocolate-</a>	
14	2/2/2023 21:50:50		Kolokithokeftedes	Greece	<a href="https://www.mygreekdish.com/recipe/kolokithokeftedes-fried-zucchini-and-tomatoes/">https://www.mygreekdish.com/recipe/kolokithokeftedes-fried-zucchini-and-tomatoes/</a>	
15	2/2/2023 21:51:11		Tiropita	Greece	<a href="https://www.mygreekdish.com/recipe/tiropita-greek-feta-cheese-custard-pie/">https://www.mygreekdish.com/recipe/tiropita-greek-feta-cheese-custard-pie/</a>	
16	2/2/2023 21:52:56		Fakes	Greek	<a href="https://thegreekfoodie.com/greek-lentil-soup-recipe/">https://thegreekfoodie.com/greek-lentil-soup-recipe/</a>	



# Future Trajectory



# Wizard of Oz

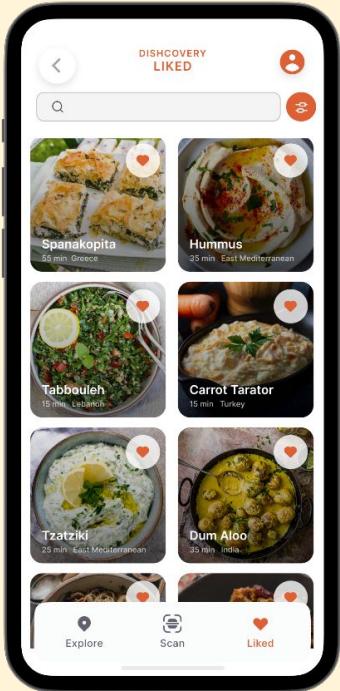
## Scanning

- We are currently having issues with the scan feature, and are working to resolve them.
- The API does still work but we need to sort out issues with React dependencies and brainstorming a way to use the API long-term

## Data Fetching

- Recipes and User data are successfully stored in the Firebase, but need some work to fetch the data so it can populate
- We've been manually sourcing recipes from people and their families.

# Hard Coded



## Liked Recipes

- Liked recipes from an example user are still hard coded. After we improve our backend and successfully fetch user data, we will populate this from the database.

## Recipe Recommendations

- The recipes on the Explore Tab are currently hardcoded.



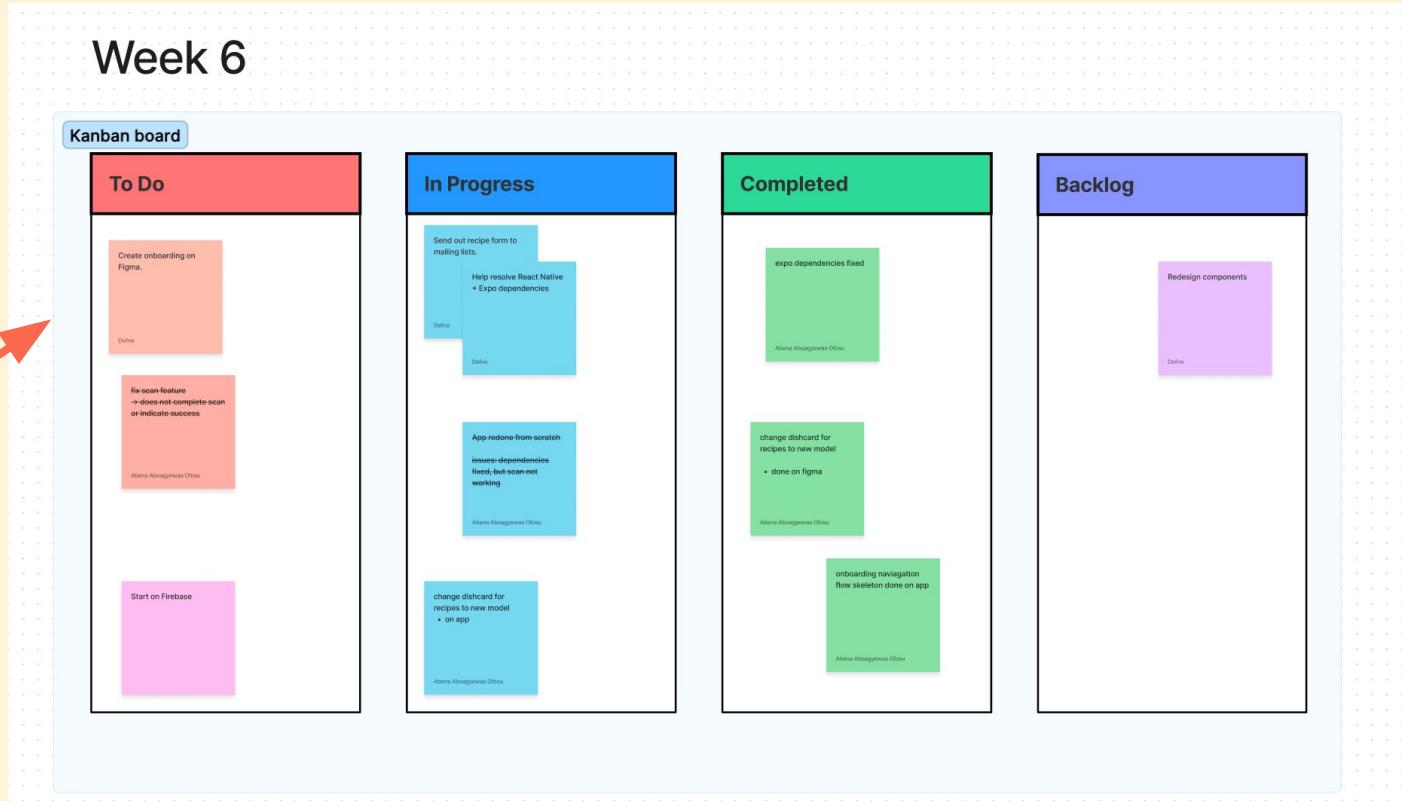
# More that we hope to implement

- Dietary preferences informing “smart” recommendations (explained later)
- More permanent image recognition solution than API key.
- Sourcing more recipes from real people but also researching and adding recipes ourselves every week.
- Completing the continuation of the “Context” under recipe screens and devising more ways for sourcing and presenting recipe context.

# How we're managing tasks



Kanban  
board





# Future Technical Work



## Improve Backend

Remove hard coding and fetch data effectively.



## Recipe Recommendations

Use AI for the Explore Tab in order to recommend recipes relevant to the user.



## User settings

Allow for in-app adjustments of user settings and dietary restrictions apart from onboarding

# THANK YOU!



# Appen-dish

Updated Figma link:

<https://www.figma.com/file/tyDILZR1T2Z7Fmq4NTKeey/Dishcovery-Version-3?node-id=52%3A2419&t=Thj1HgKMRUSz18IB-1>