MyMeals
Project Presentation

OUR TEAM

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Introduction 01

MyMeals App

For users that want to keep track of what they eat and want recipe recommendations.

MyMeals App Features

Dashboard

Main screen where consumed meals are shown.

Look for and Analyze recipes

Look for a recipe or analyze one

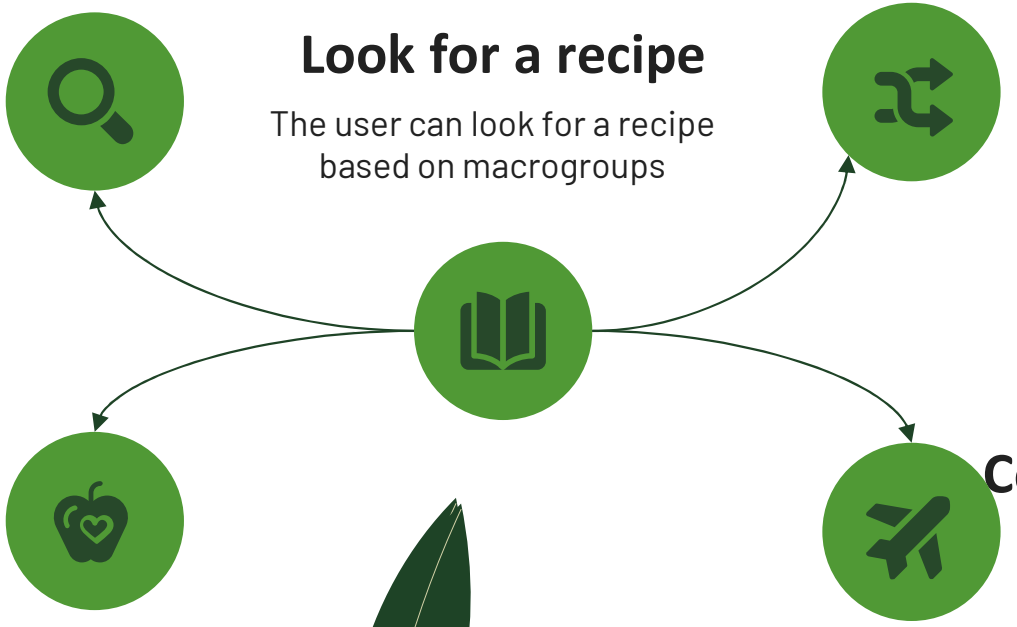
Analyze data and trends

Screen containing nutrient data and charts

Insert a new meal

Insert a new meal either manually or using a barcode

Recipe Screen



Look for a recipe

The user can look for a recipe based on macrogroups

Casual

Recommendations based on time of the day and main ingredient

Random

Recommendations based only on time of the day

Healthy

Recommendations based on time of the day, main ingredient and maximum calories

Country of origin

Recommendations based on country of origin

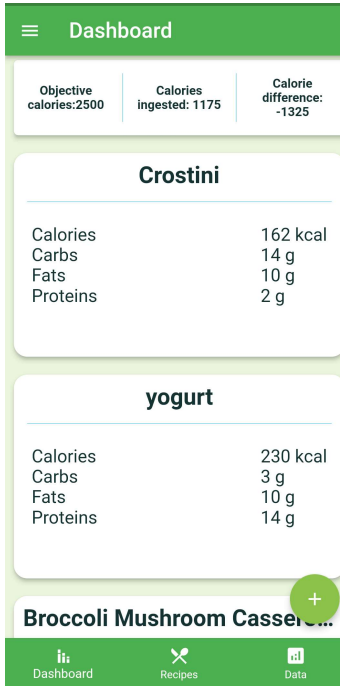
UX/UI Design

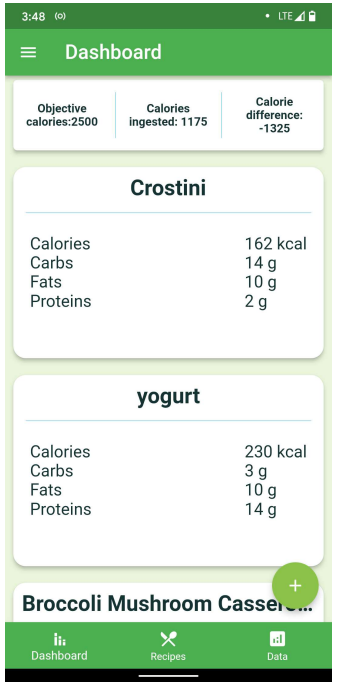
02

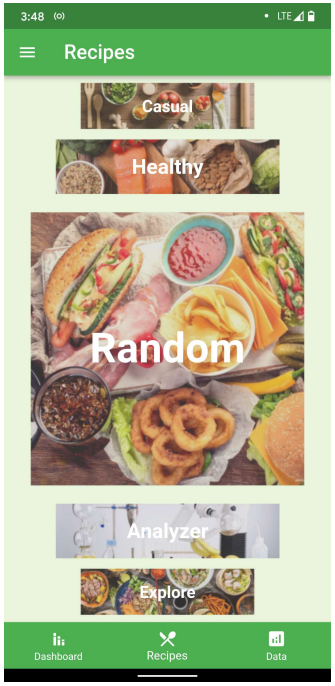
UI / UX DESIGN

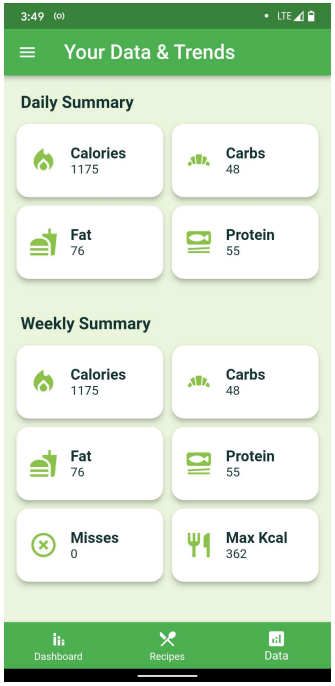
We decide to split the application in three screens:

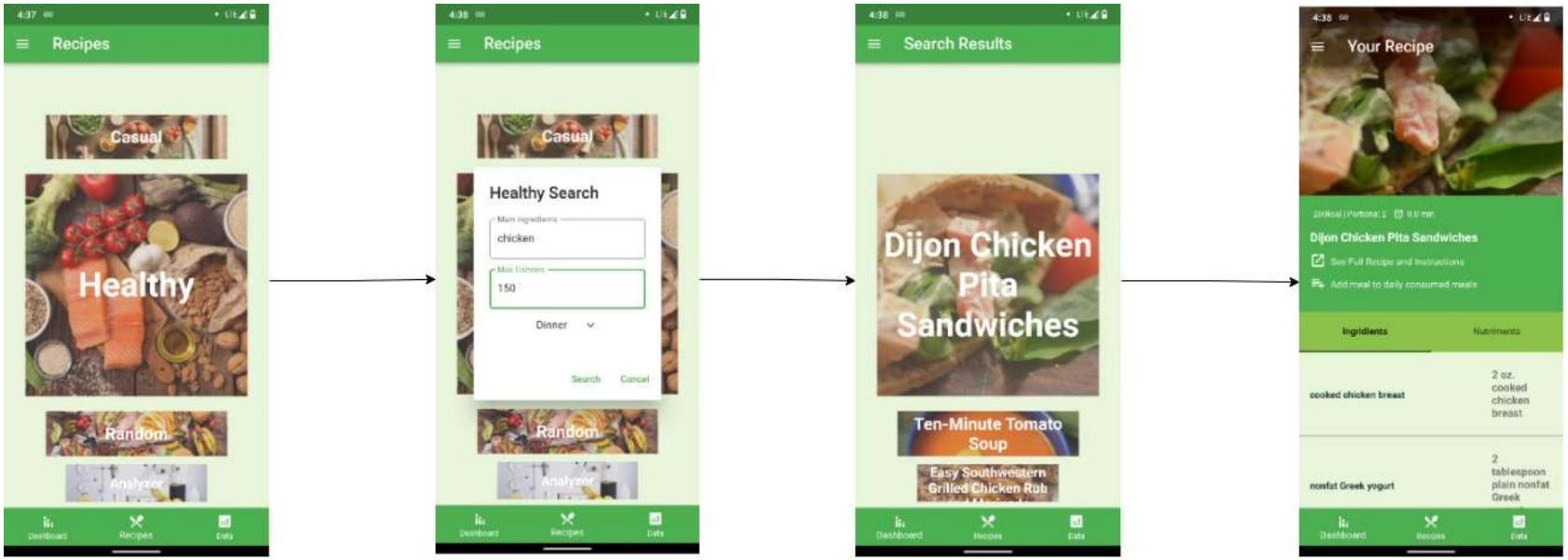
- Dashboard screen (main)
- Recipe screen
- Data Screen (values and charts)

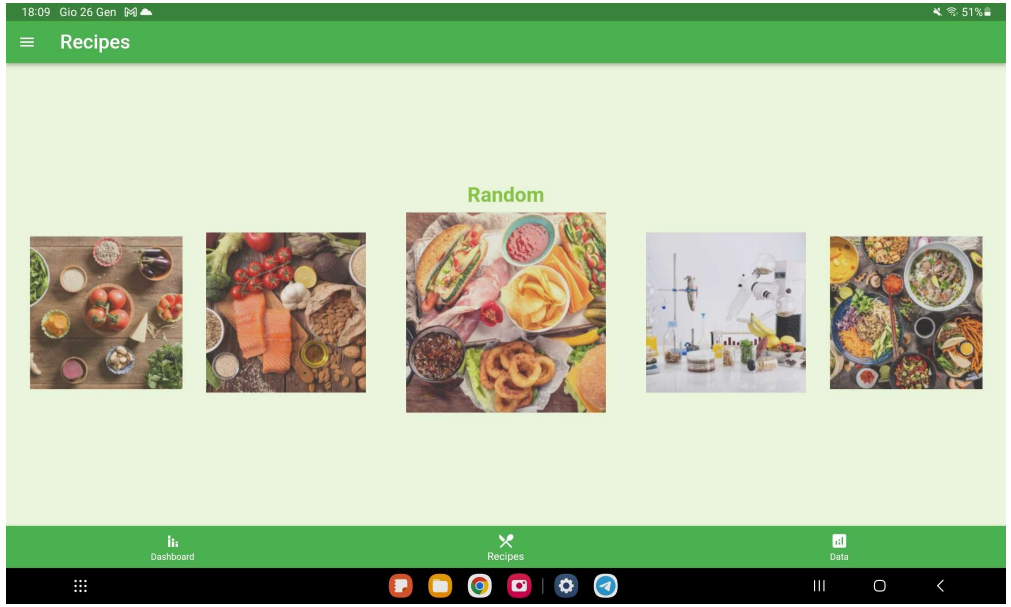



3:48
Dashboard
Objective calories:2500
Calories ingested: 1175
Calorie difference: -1325
Crostini
Calories 162 kcal
Carbs 14 g
Fats 10 g
Proteins 2 g
yogurt
Calories 230 kcal
Carbs 3 g
Fats 10 g
Proteins 14 g
Broccoli Mushroom Casse...
Dashboard
Recipes
Data


3:48
Recipes
Casual
Healthy
Random
Analyzer
Explore
Dashboard
Recipes
Data


3:49
Your Data & Trends
Daily Summary
Calories 1175
Carbs 48
Fat 76
Protein 55
Weekly Summary
Calories 1175
Carbs 48
Fat 76
Protein 55
Misses 0
Max Kcal 362
Dashboard
Recipes
Data


Recipes
Casual
Healthy
Random
Analyzer
Dashboard
Recipes
Data
Recipes
Casual
Healthy Search
chicken
150
Dinner
Search
Cancel
Random
Analyzer
Search Results
Dijon Chicken Pita Sandwiches
Ten-Minute Tomato Soup
Easy Southwestern Grilled Chicken Rub
Your Recipe
Dijon Chicken Pita Sandwiches
See Full Recipe and Instructions
Add meal to daily consumed meals
Ingridients
Nutriments
cooked chicken breast
2 oz. cooked chicken breast
nonfat Greek yogurt
2 tablespoon plain nonfat Greek



Tablet implementation:

- Horizontal scroll
- No hard coded parameters
- Dynamic parameters using the MediaQuery class

Implementation 03

PROJECT POLICIES

Modular Development

Separating functionalities into interchangeable modules

Code Smells prevention

Avoid duplicates
Validated merge/pulls requests

Strict Project Structure

Each dart file has only one widget, located in the right folder

Variable Naming Convention

UpperCamelCase,
snake_case, lowerCamelCase

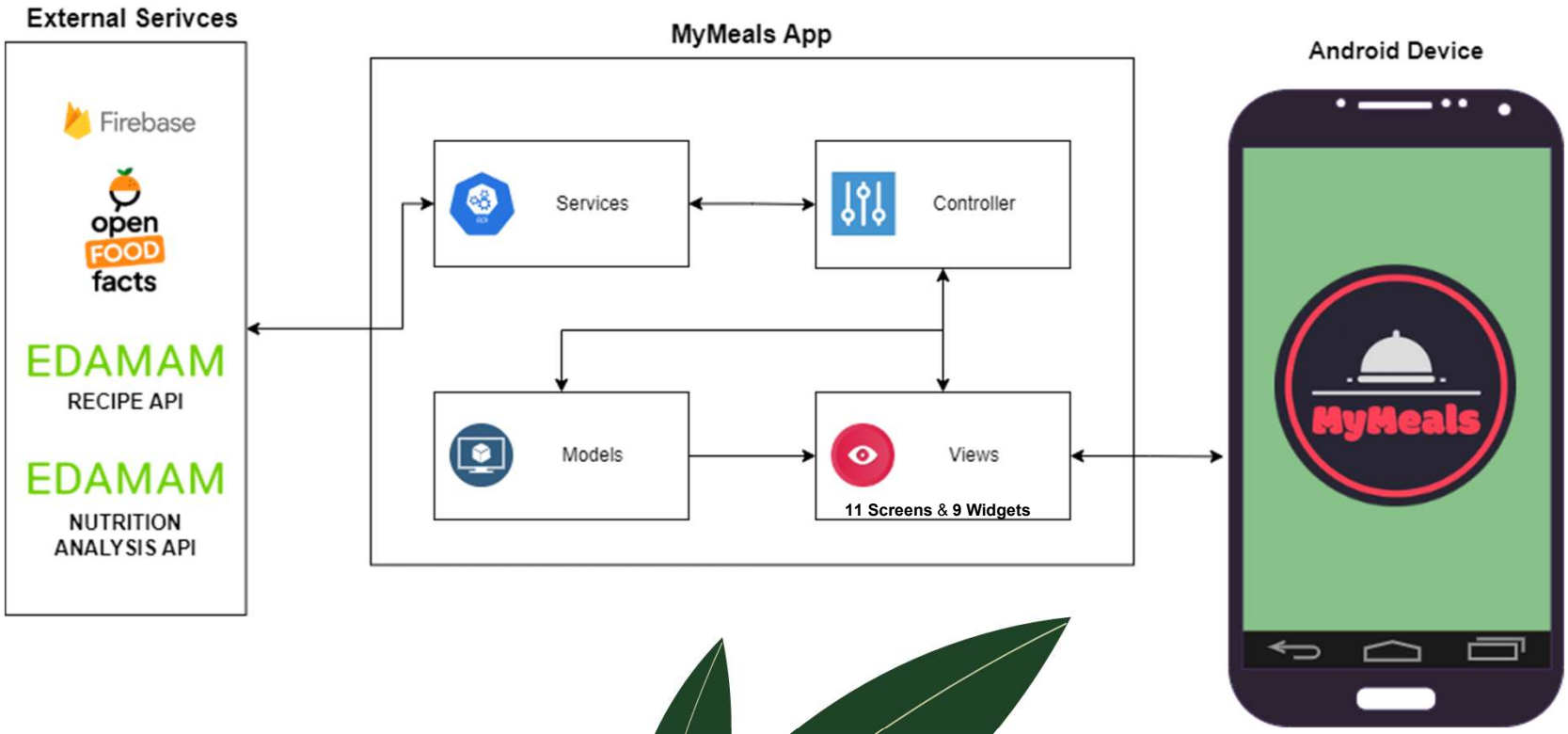
Git

Branch usage and proper git etiquette

Null Safety

a variable cannot have a null or void value

High Level Architechture



Testing

04

- Verify func
- 97 tests fo
- Overall co
- Application
- Firebase A
- Render & s

File	% Branch	% Lines
lib/		
main.dart	100.00	90.00
lib/model/		
recipe.dart	100.00	100.00
user_model.dart	100.00	100.00
lib/screens/		
dashboard_screen.dart	100.00	83.93
data_screen.dart	100.00	81.72
home_screen.dart	100.00	93.10
login_screen.dart	100.00	73.91
recipe_details_screen.dart	100.00	76.22
recipes_screen.dart	100.00	61.60
recipesearch_results.dart	100.00	82.65
register_screen.dart	100.00	85.11
resetpass_screen.dart	100.00	85.71
setttings_screen.dart	100.00	73.33
tabs_screen.dart	100.00	91.67
lib/services/		
auth.dart	100.00	91.67
data_services.dart	100.00	96.77
meal_services.dart	100.00	98.75
lib/widget/		
bottom_navbar.dart	100.00	55.26
calories_chart.dart	100.00	72.73
daily_counter.dart	100.00	79.41
dashboard_card.dart	100.00	100.00
data_tile.dart	100.00	100.00
ingridient_tile.dart	100.00	100.00
insertData.dart	100.00	71.43
insertproduct_popup.dart	100.00	70.33
main_drawer.dart	100.00	51.61
All files with unit testing	100.00	77.12

, and screens

% covered

during testing

Integration Testing

- UT does not test how app components work together
- Simulate a user’s app usage scenario
- End-to-end scenario: from register to data trends

User Acceptance Testing

- UX assessment
- Visualize user interactions
- Validate the behavior of the app
- 3rd party input

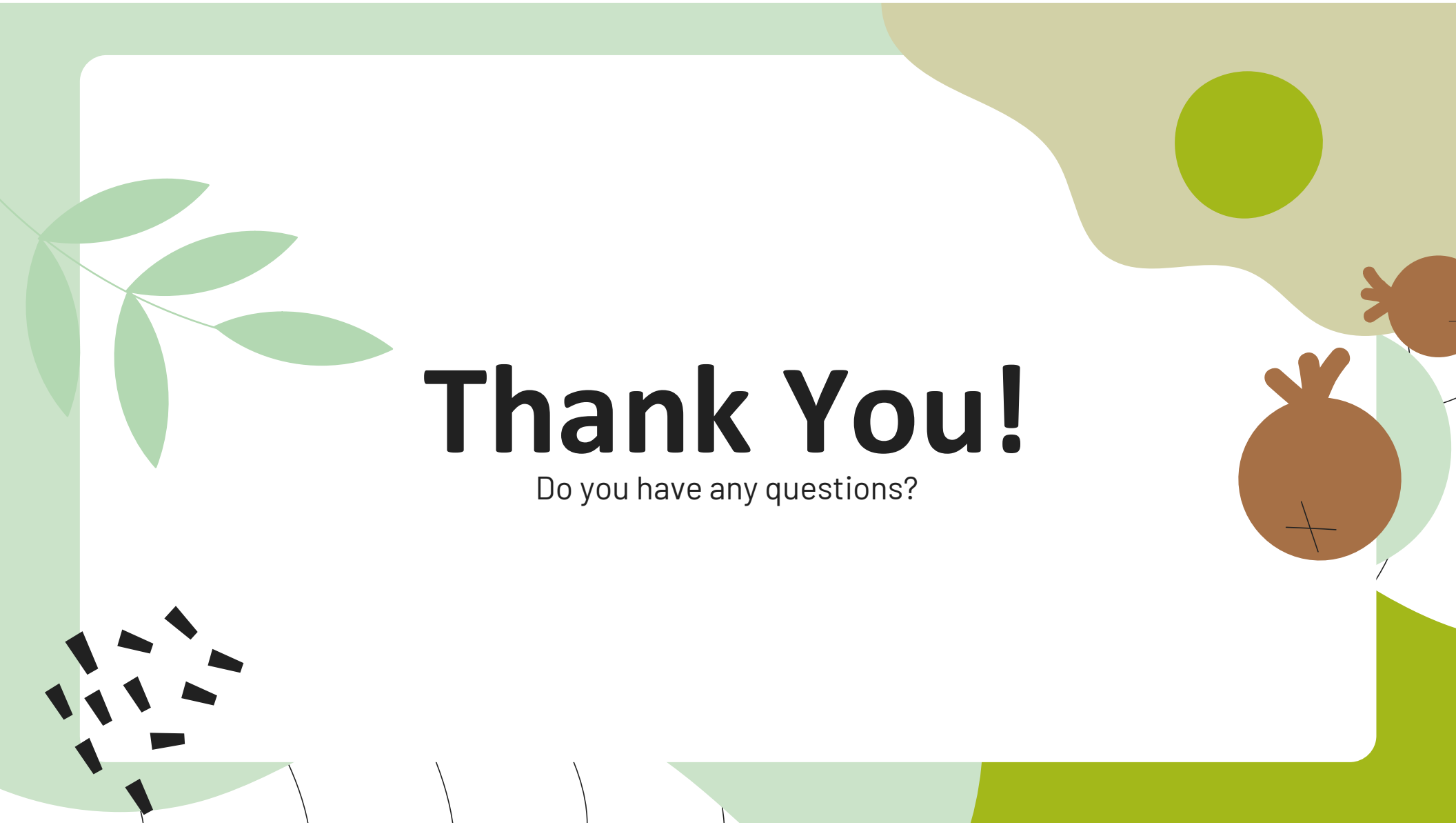
Future Works

05

What’s Next ?

- Implementing the tracking of more nutrients
- Support for allergies
- More filters and personal preferences
- Improvement of the recipe services
- Implementing suggestions and insights to the user’s diet
- Improve IOS support

DEMO

Thank You!

Do you have any questions?