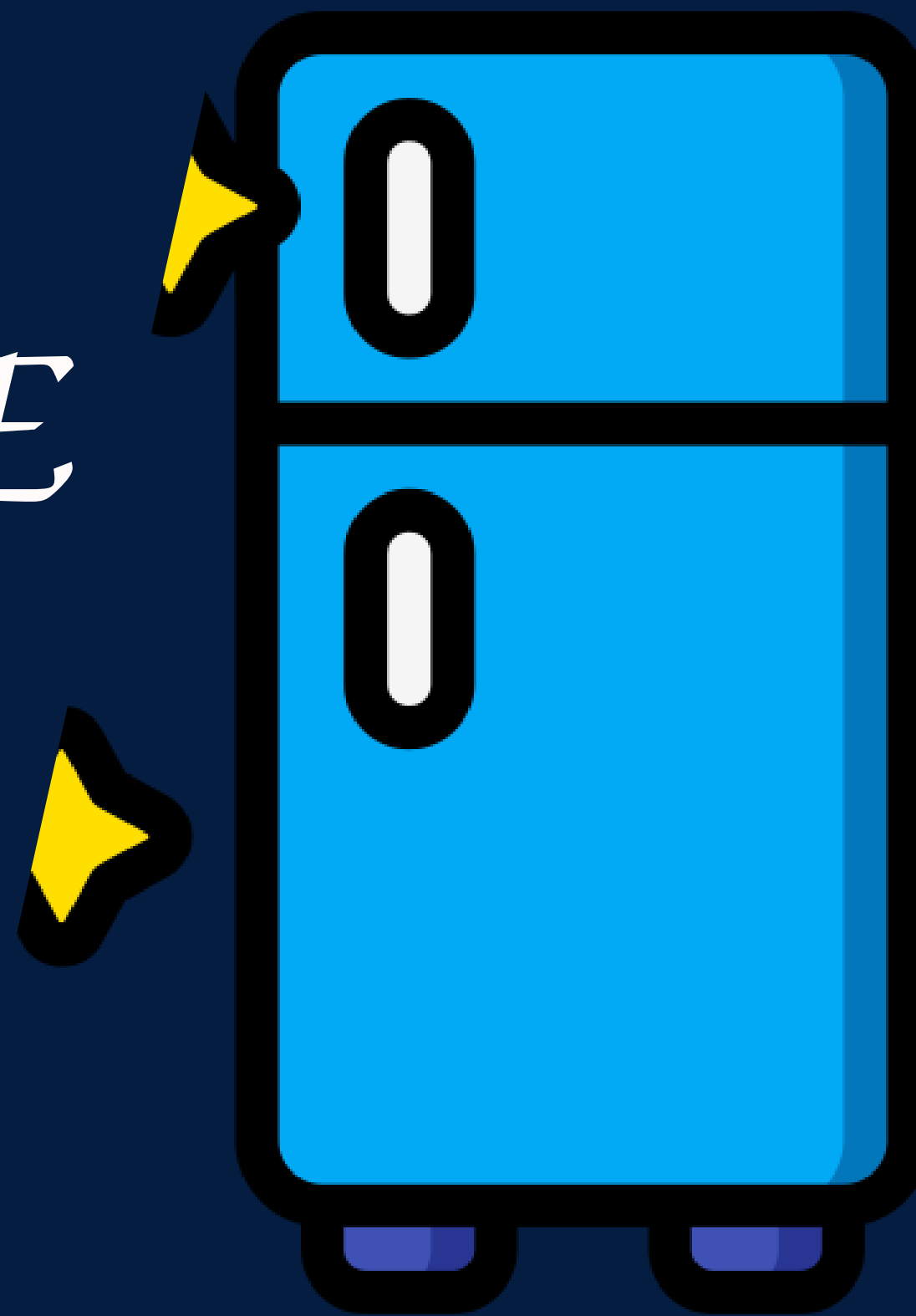


*SMART FRIDGE
APP*

*MANAGING YOUR REFRIGERATOR
INVENTORY*



PROBLEMS

Traditional refrigerator management is inefficient.

Forgetting about ingredients leads to waste.

Lack of organization makes meal planning difficult.

Tracking inventory is time-consuming.

Food spoilage results in financial loss.

Finding what you need is hard.



◆ SMART FRIDGE SOLUTION

Real-time Inventory

Tracks refrigerator contents.

Expiration Dates

Monitors expiration dates and alerts.

Shopping List

Creates a shopping list Automatically.

meal planning

Suggests recipes based on inventory.



BENEFITS OF USING SMARTFRIDGE

1

Reduce Food Waste

Eliminate expired food and save money.

2

Improve Meal Planning

Plan meals based on available ingredients.

3

Shopping Trips

Buy needed only.

4

Lactose Notice

Ingredients lactose note.



APPLICATION FUNCTIONALITY



Recipe Suggestions

Offer recipe based on available ingredients



Shopping List Creation

Automatically generate a shopping list based on low inventory items.



Expiration Date Tracking

Set expiration dates for each item for timely reminders.

APPLICATION FUNCTIONALITY



Inventory Management:

Track all ingredients in the refrigerator, including quantity, sensitivity, and expiration date.



Food Sensitivity Management:

vegetarian or non ,lactose notice and calories.



AI ChatBOT:

Provide a real-live chat with AI. Ask anything!



Weather updates:

provide a weather update line , for any city !



SCOPE OF WORK

Fridge Management

Health Tracking

Smart Notifications

**Expiration Date
Monitoring**

**Smart Recipe
Recommendations**

Shopping List

TOOLS AND DEVELOPMENT ENVIRONMENTS



Android Studio



Visual Studio Code



PyCharm



GitHub



Postman



mongoDB

SmartFridge

__schema__

auth_group

auth_group_permissi...

auth_permission

authtoken_token

django_admin_log

django_content_type

django_migrations

django_session

smartfridge_category



Generate queries from natural language in Compass

INSERT DOCUMENT

Filter

Type a query: { field: 'value' }

Reset

Apply

Options

QUERY RESULTS: 1-20 OF MANY

```

_id: ObjectId('67b4c8cf95d09250dad7d622')
id: 6
name: "Apple"
description: "1K"
exp_days: 28

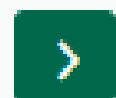
```



PREVIOUS

1-20 of many results

NEXT



django_migrations

django_session

smartfridge_category

smartfridge_item

smartfridge_recipe

smartfridge_recipeit...

smartfridge_user

smartfridge_user_gr...

smartfridge_user_us...

Filter 

Type a query: { field: 'value' }

Reset

Apply

Options 

```
_id: ObjectId('67b4c8cf95d09250dad7d622')
id: 6
name: "Apple"
description: "1K"
exp_days: 28
image: "https://assets.clevelandclinic.org/transform/cd71f4bd-81d4-45d8-a450-7..."
type: "VEGETERIAN"
lactose: false
```

 PREVIOUS

1-20 of many results

NEXT 

System Status: **All Good**

©2025 MongoDB, Inc. [Status](#) [Terms](#) [Privacy](#) [Atlas Blog](#) [Contact Sales](#)



Generate queries from natural language in Compass

INSERT DOCUMENT

Filter

Type a query: { field: 'value' }

Reset

Apply

Options

- django_admin_log
- django_content_type
- django_migrations
- django_session
- smartfridge_category
- smartfridge_item
- smartfridge_recipe**
- smartfridge_recipeit...
- smartfridge_user
- smartfridge_user_gr...
- smartfridge_user_us...

```
_id: ObjectId('67b4ec9095d09250dad7d64e')  
id: 3  
name: "chicken tray"  
description: "chicken and potato and onion "  
image: "https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTelopVHlslLwIboU..."
```

```
_id: ObjectId('67b4ecdc95d09250dad7d653')  
id: 4  
name: "mlokheh"  
description: "mlokheh and rice and chicken"  
image: "https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTelopVHlslLwIboU..."
```

- ajango_aamin_log
- django_content_type
- django_migrations
- django_session
- smartfridge_category
- smartfridge_item
- smartfridge_recipe
- smartfridge_recipei...**
- smartfridge_user
- smartfridge_user_gr...
- smartfridge_user_us...

Generate queries from natural language in Compass [↗](#) INSERT DOCUMENT

Filter [↗](#) Type a query: { field: 'value' } Reset Apply Options ▶

```

_id: ObjectId('67b1f00110d261dbcebc358e')
id: 1
item_id: 2
recipe_id: 1
quantity: 2

```

< PREVIOUS 1-20 of many results NEXT >

System Status: All Good

- django_content_type
- django_migrations
- django_session
- smartfridge_category
- smartfridge_item
- smartfridge_recipe
- smartfridge_recipeit...
- smartfridge_user
- smartfridge_user_gr...
- smartfridge_user_us...
- smartfridge_useritem**

Generate queries from natural language in Compass [↗](#) INSERT DOCUMENT

Filter [↗](#) Type a query: { field: 'value' } Reset Apply Options ▶

QUERY RESULTS: 1-16 OF 16

```

_id: ObjectId('67b2fcb5da9bc674e309f418')
id: 1
item_id: 2
user_id: 1
count: -3
insertion_date: 2025-02-17T00:00:00.000+00:00

```

```

_id: ObjectId('67b30231dc6f4803be6b13f0')

```

USER INTERFACE AND USER EXPERIENCE (UI/UX) DESIGN

UI/UX

1

INTUITIVE NAVIGATION

A USER-FRIENDLY INTERFACE.

2

PERSONALIZED EXPERIENCE

RECOMMENDATIONS AND USER PREFERENCES.

3

VISUAL Appeal

DESIGN TO ENHANCE USER ENGAGEMENT.

USER AUTHENTICATION



Login Page

Users can securely access their SmartFridge.



Sign Up Page

A process allows users to create accounts easily



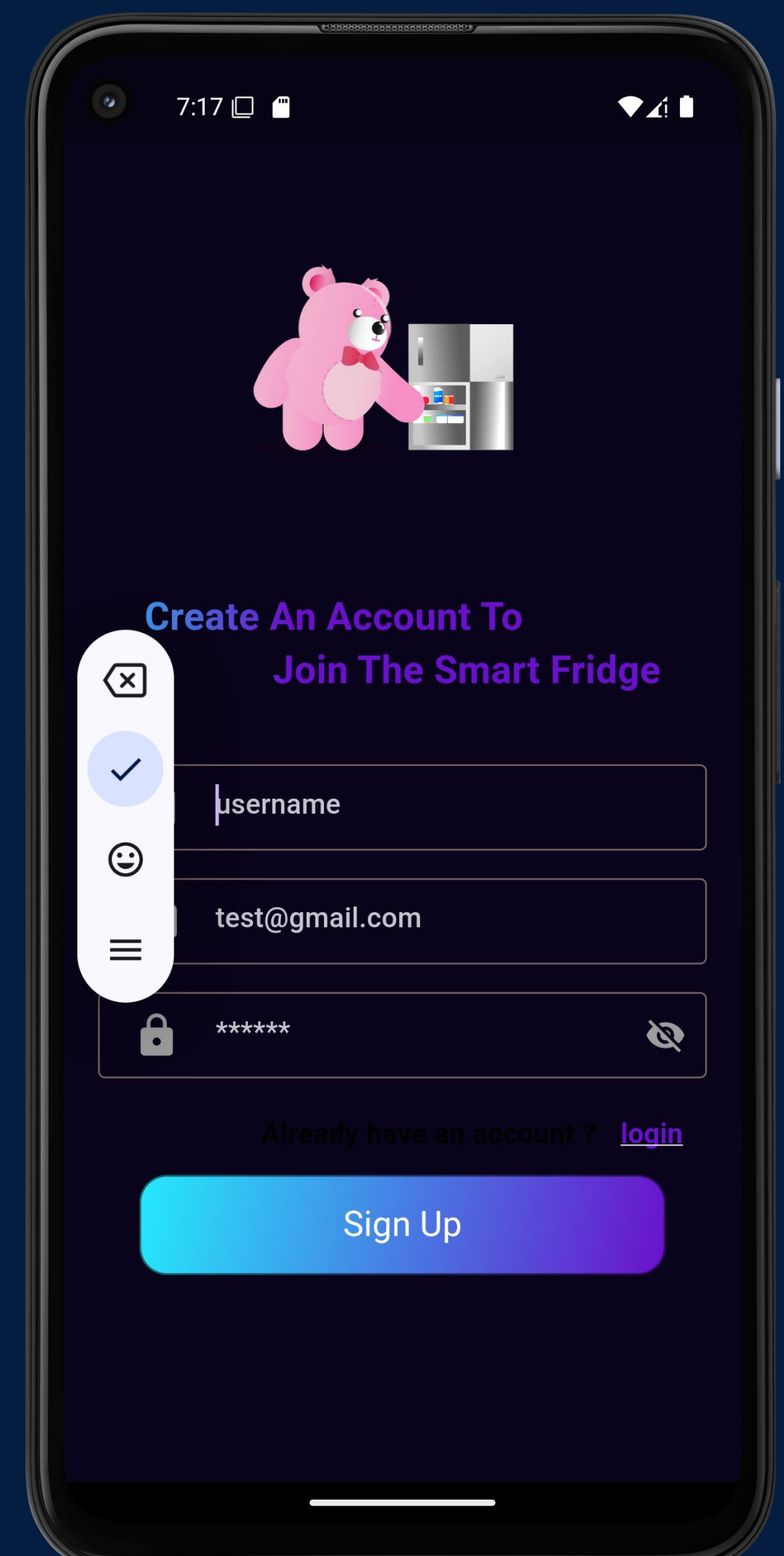
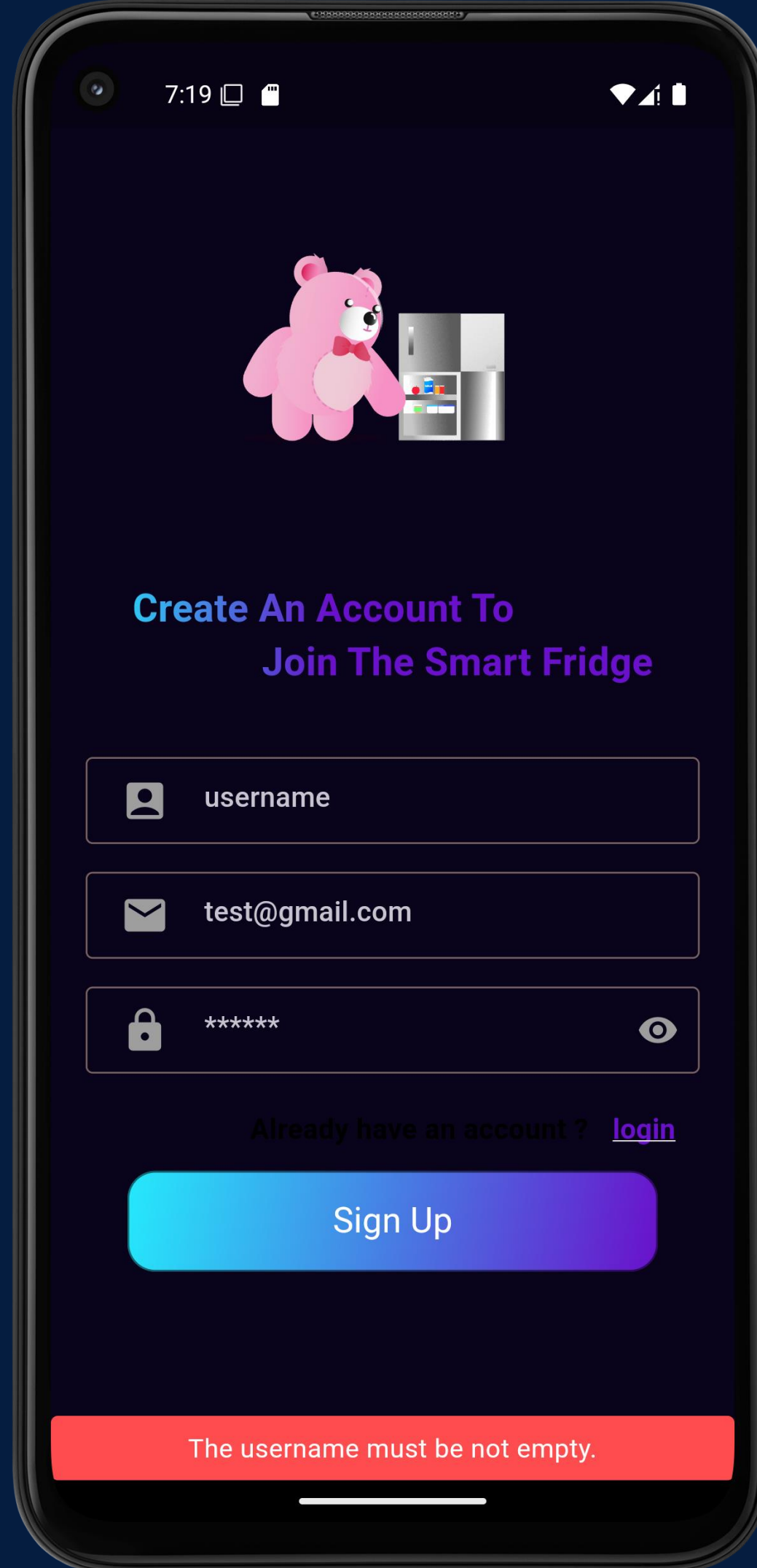
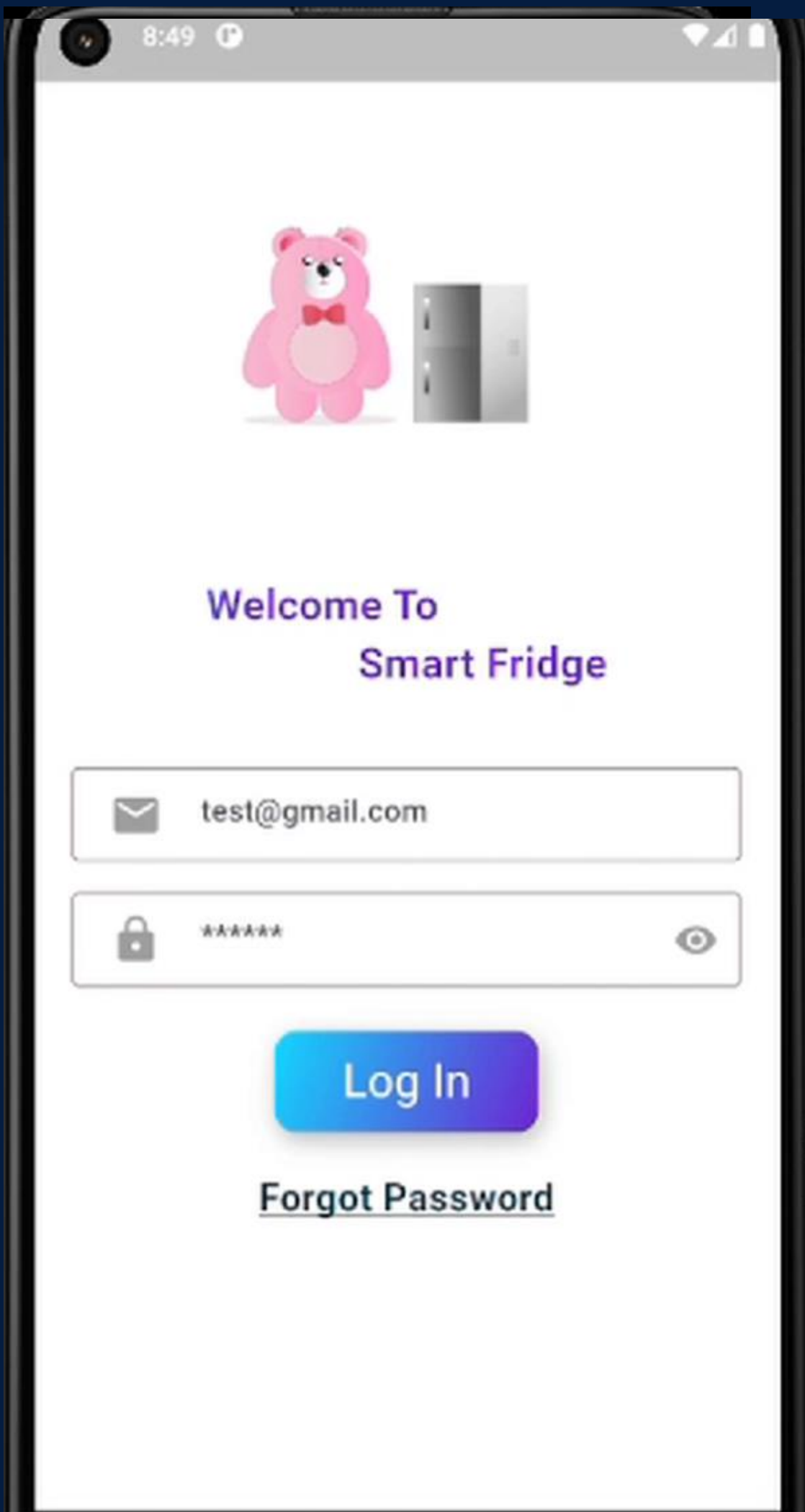
Reset Password Page

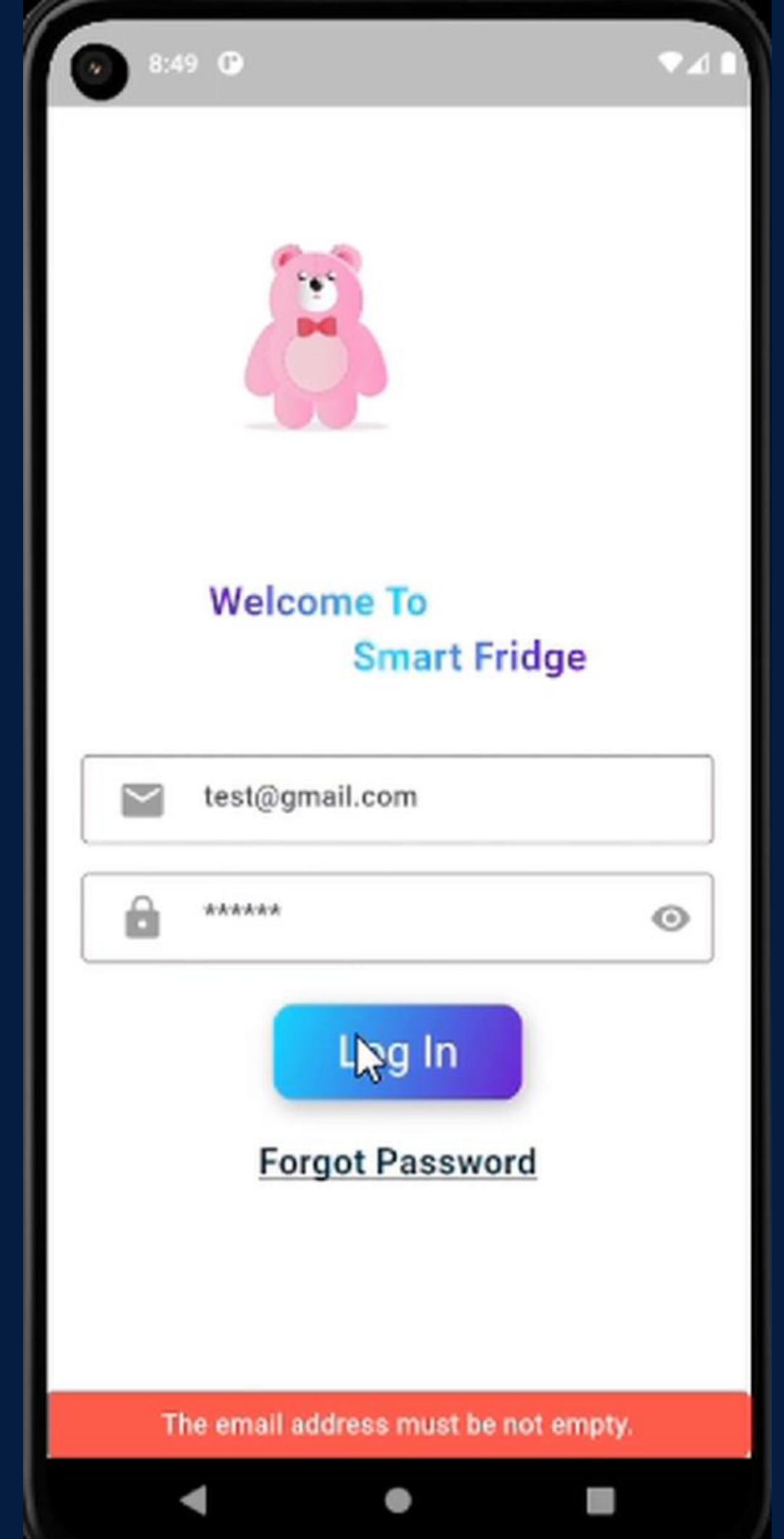
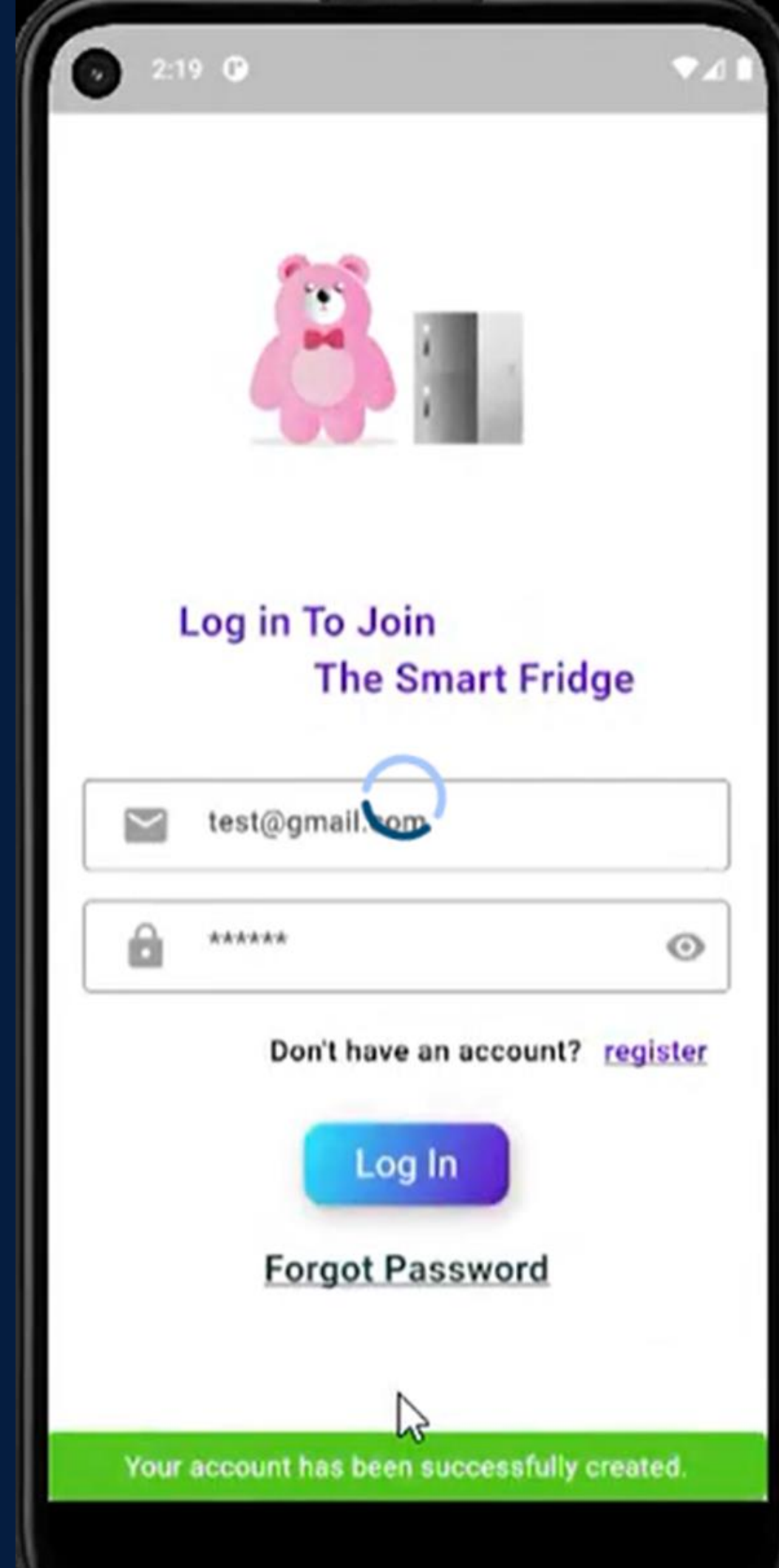
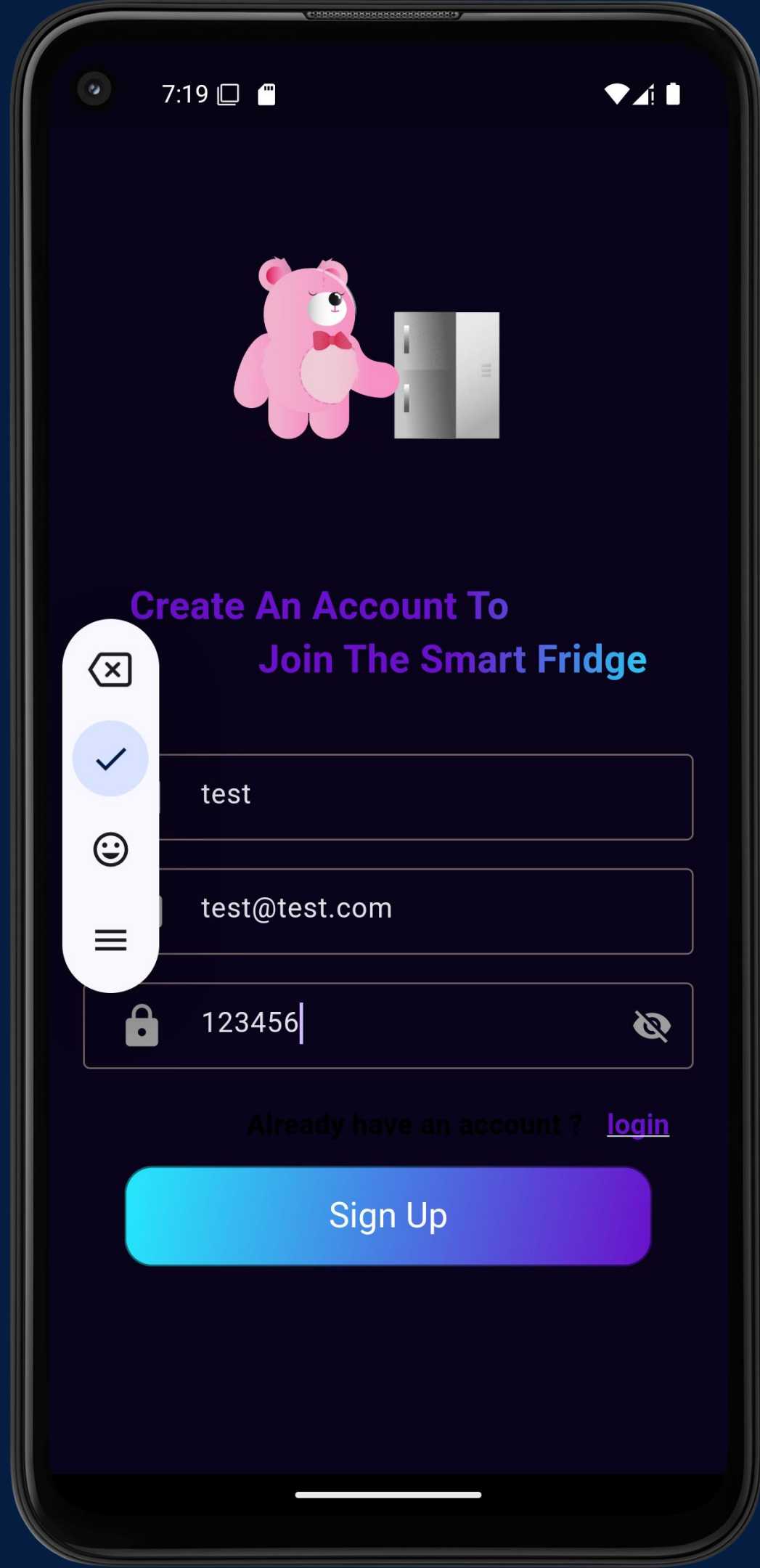
A convenient forget password
feature.

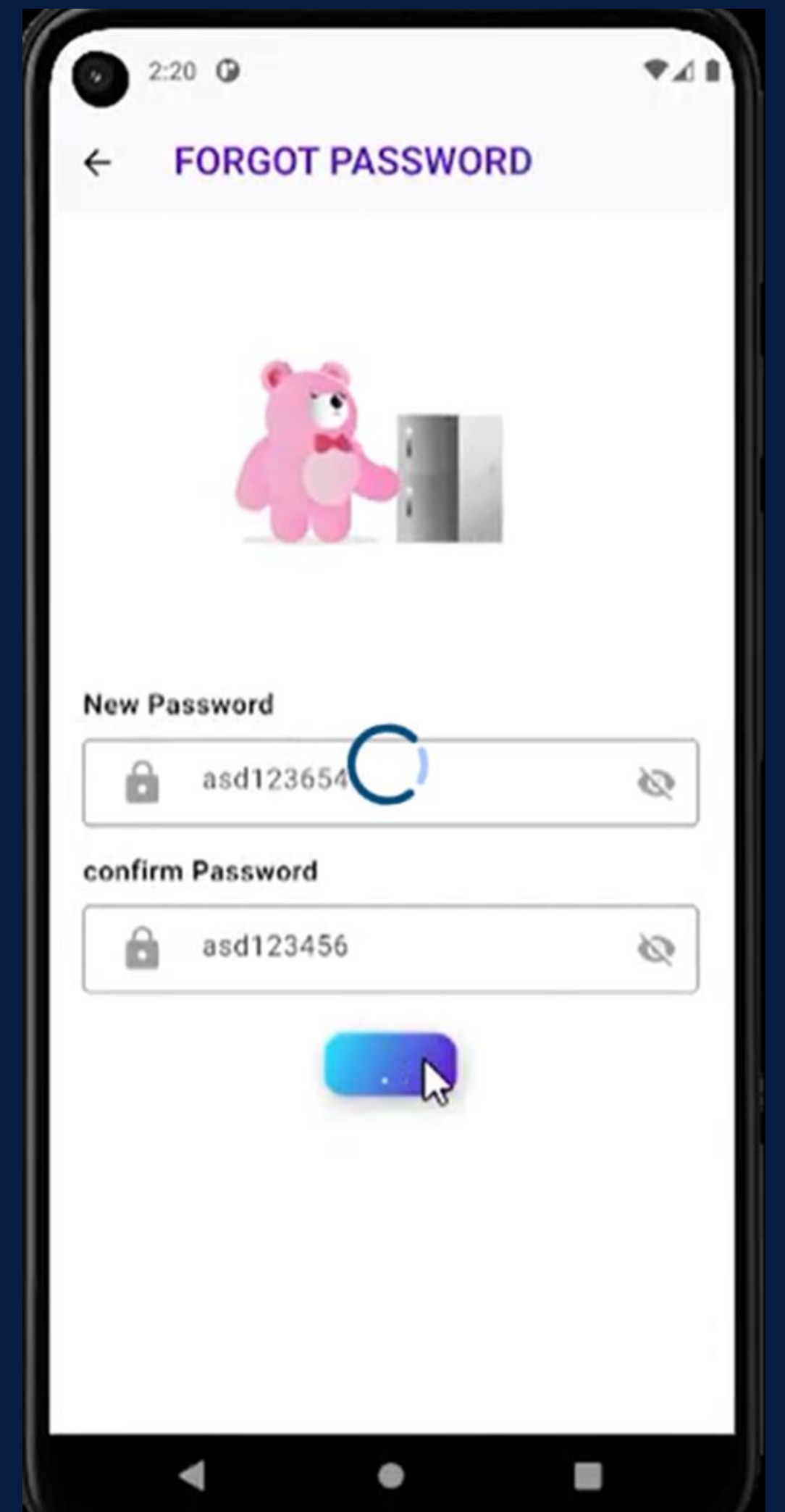
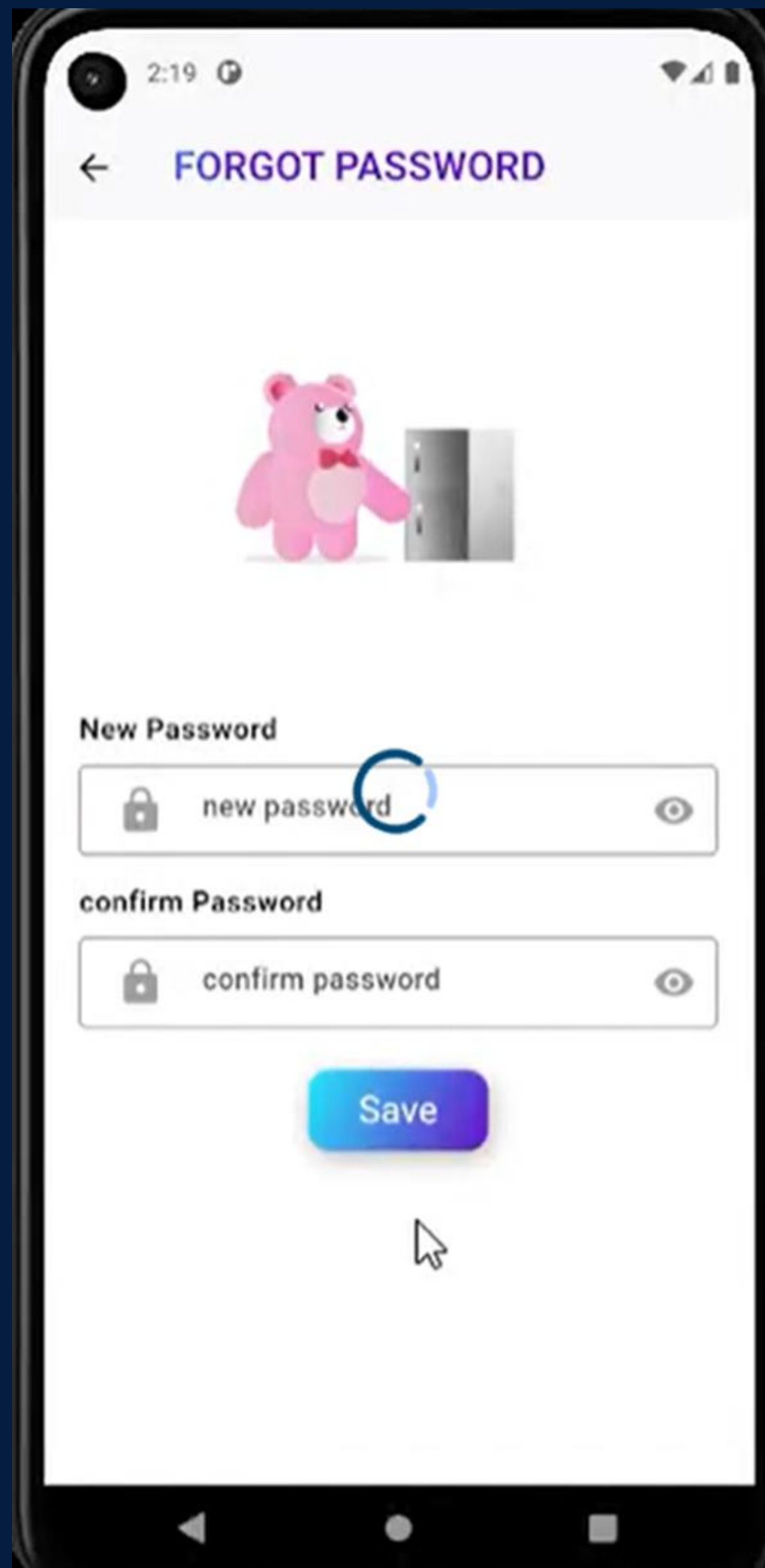
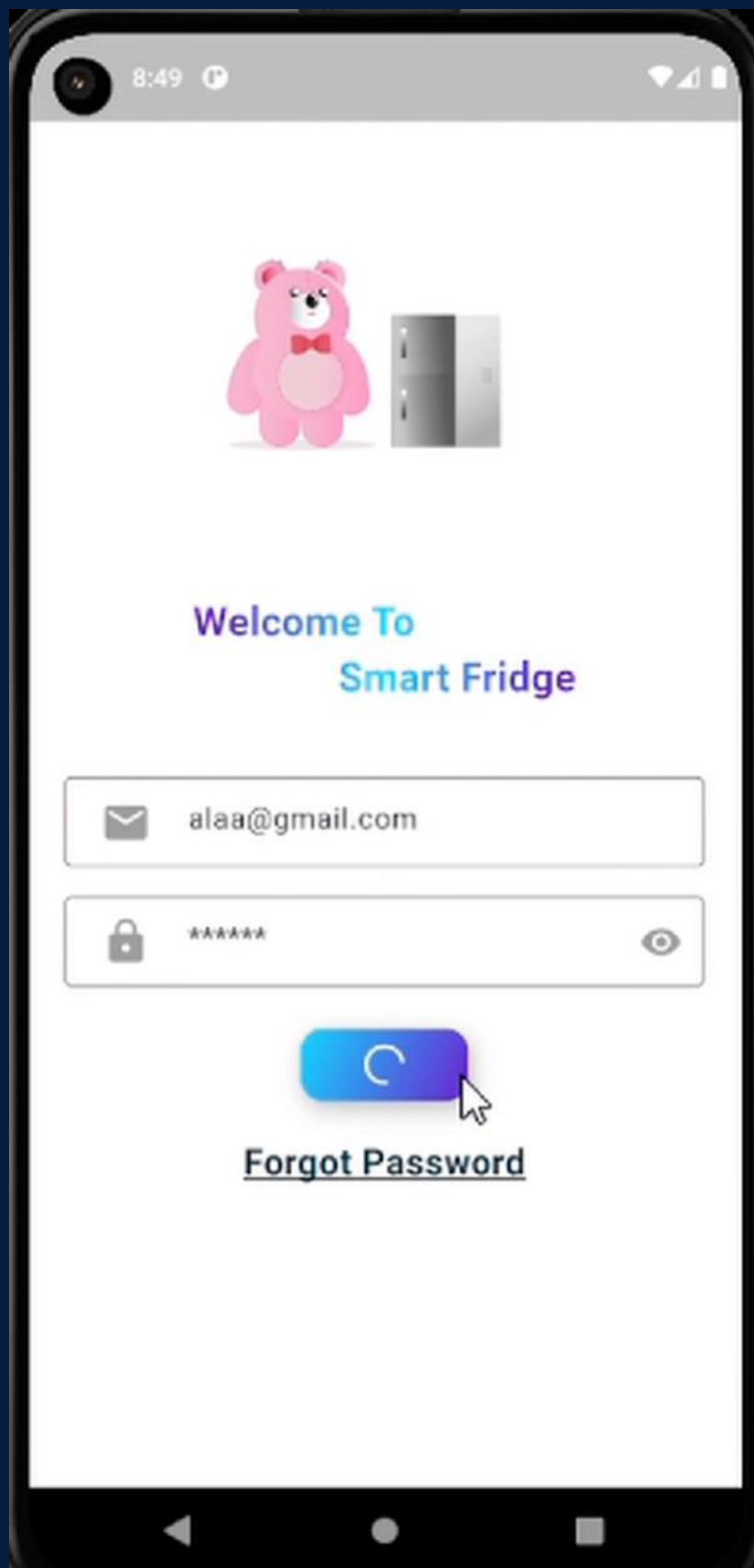
Welcome To
Smart Fridge



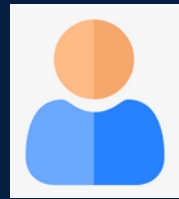
Offers tailored recipes
customized to your preferences,
available ingredients,
and dietary requirements.



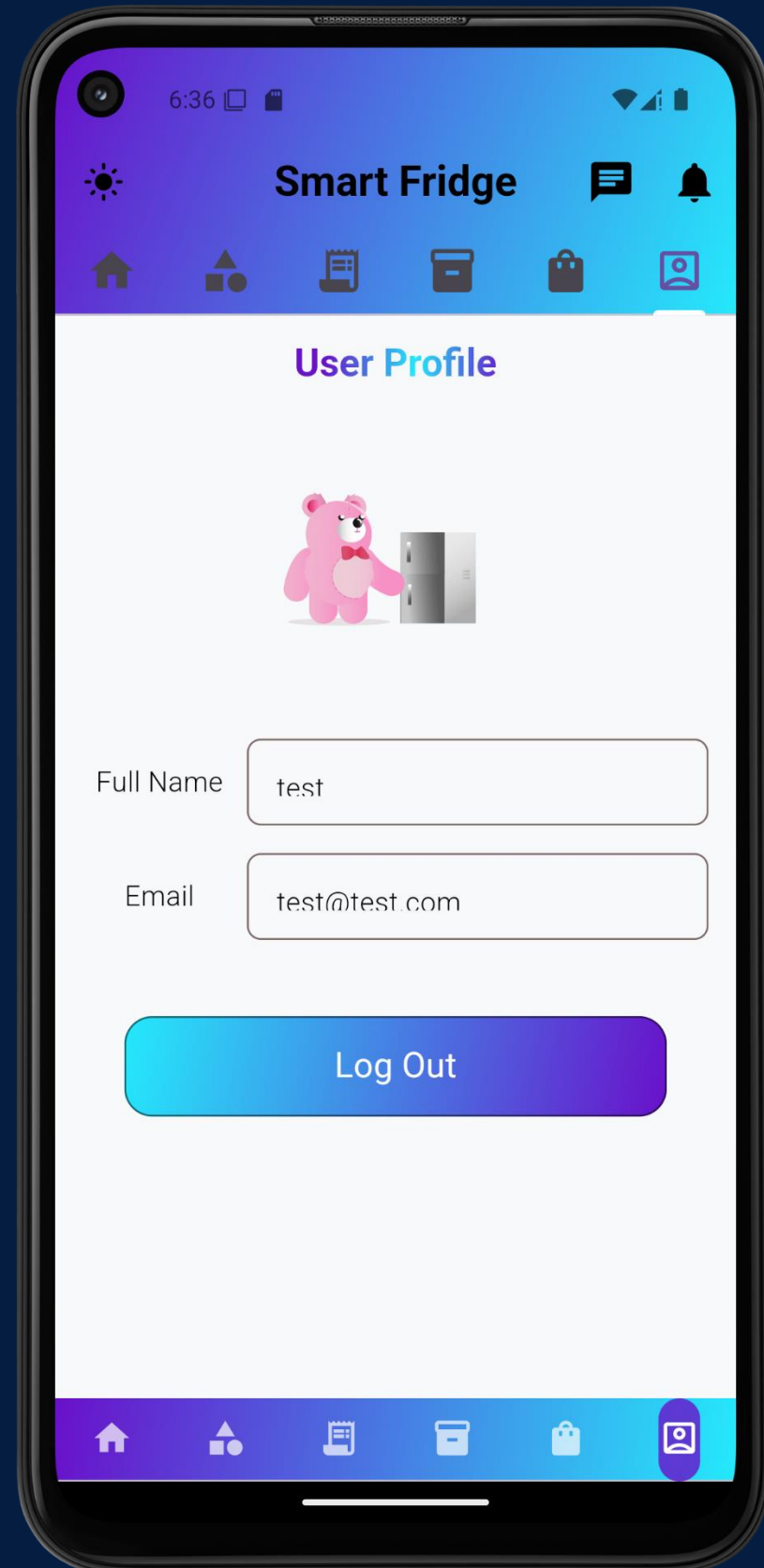




USER PROFILE AND LOG OUT



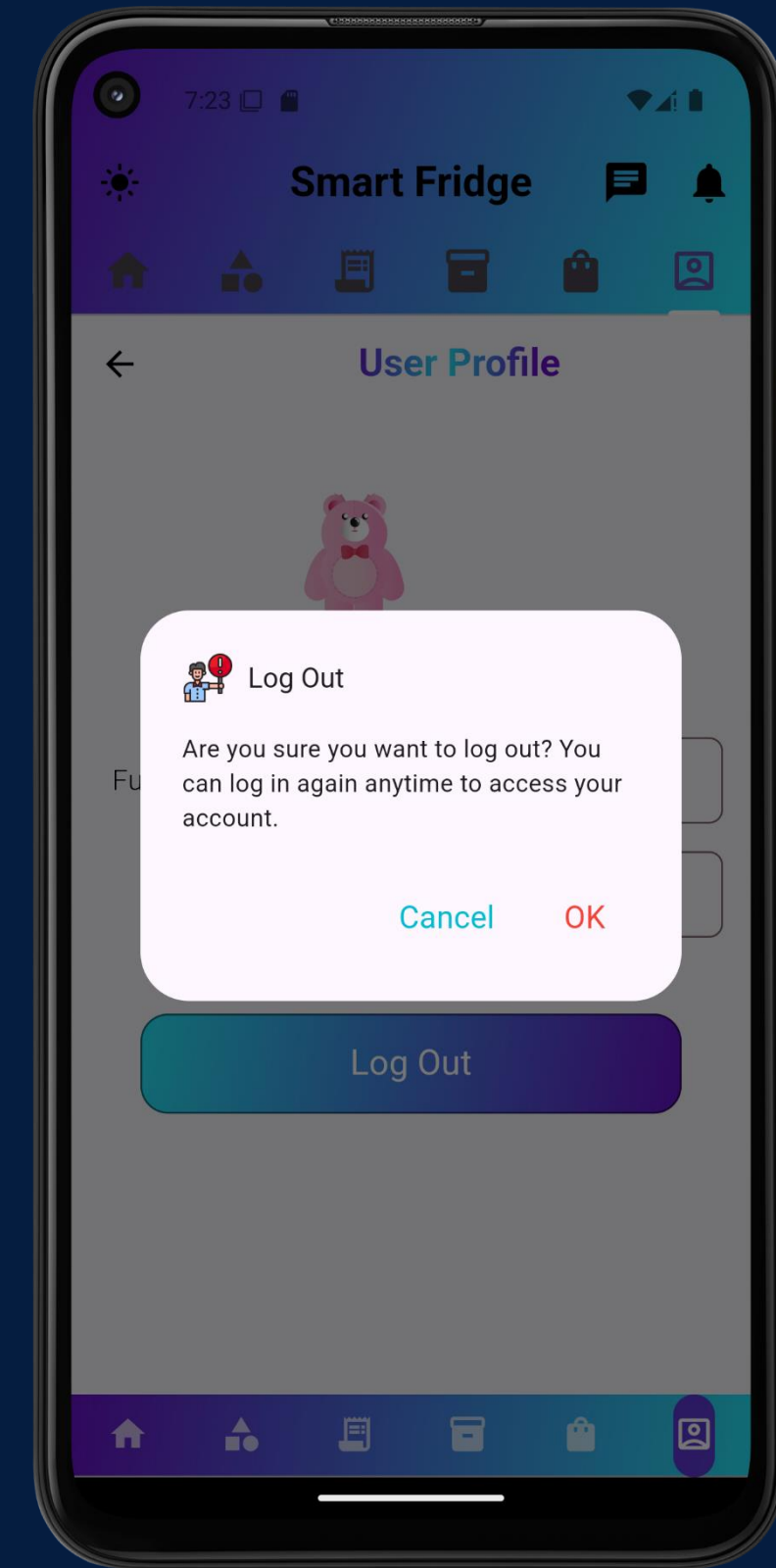
Profile Management



Edit personal



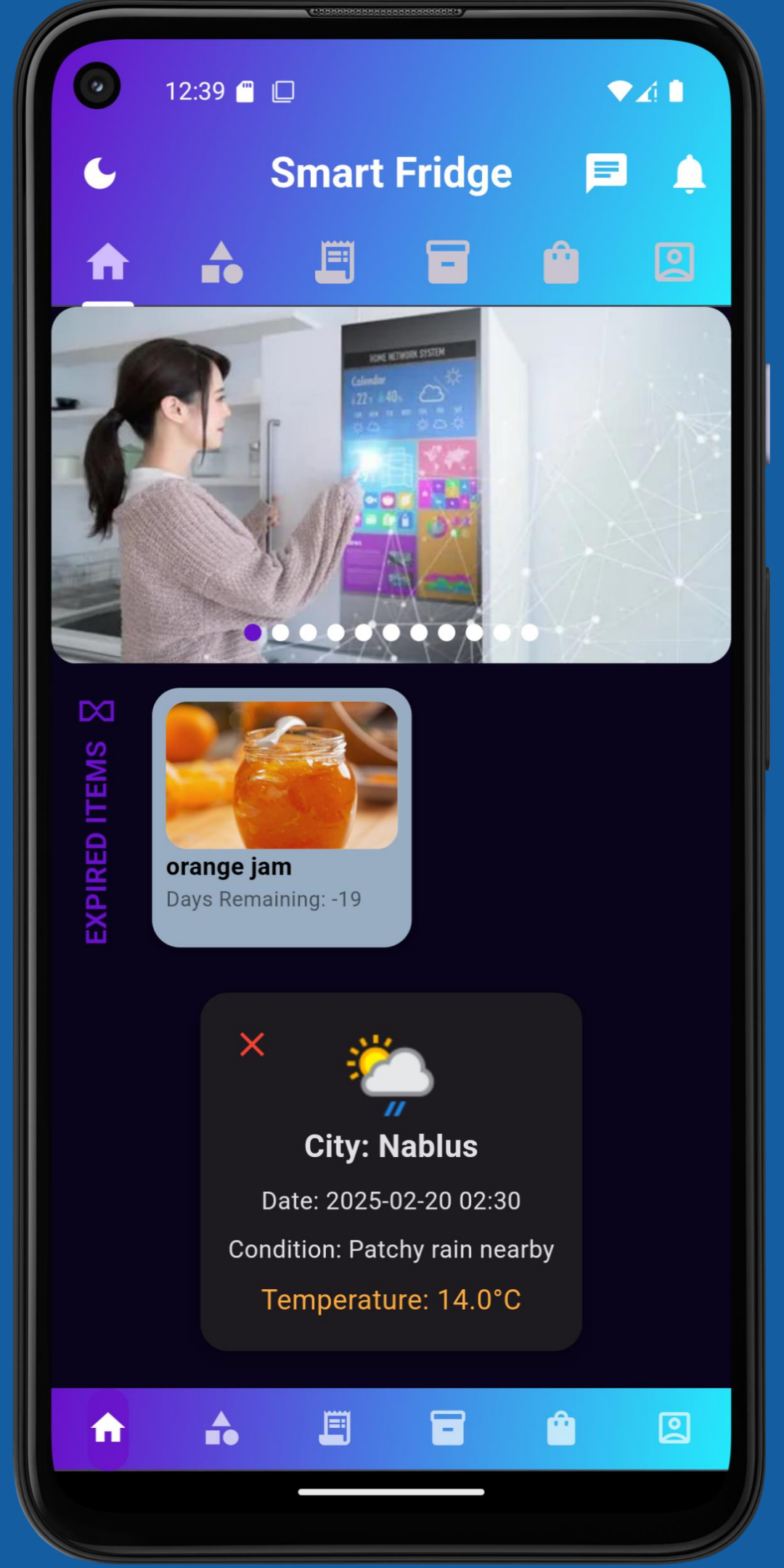
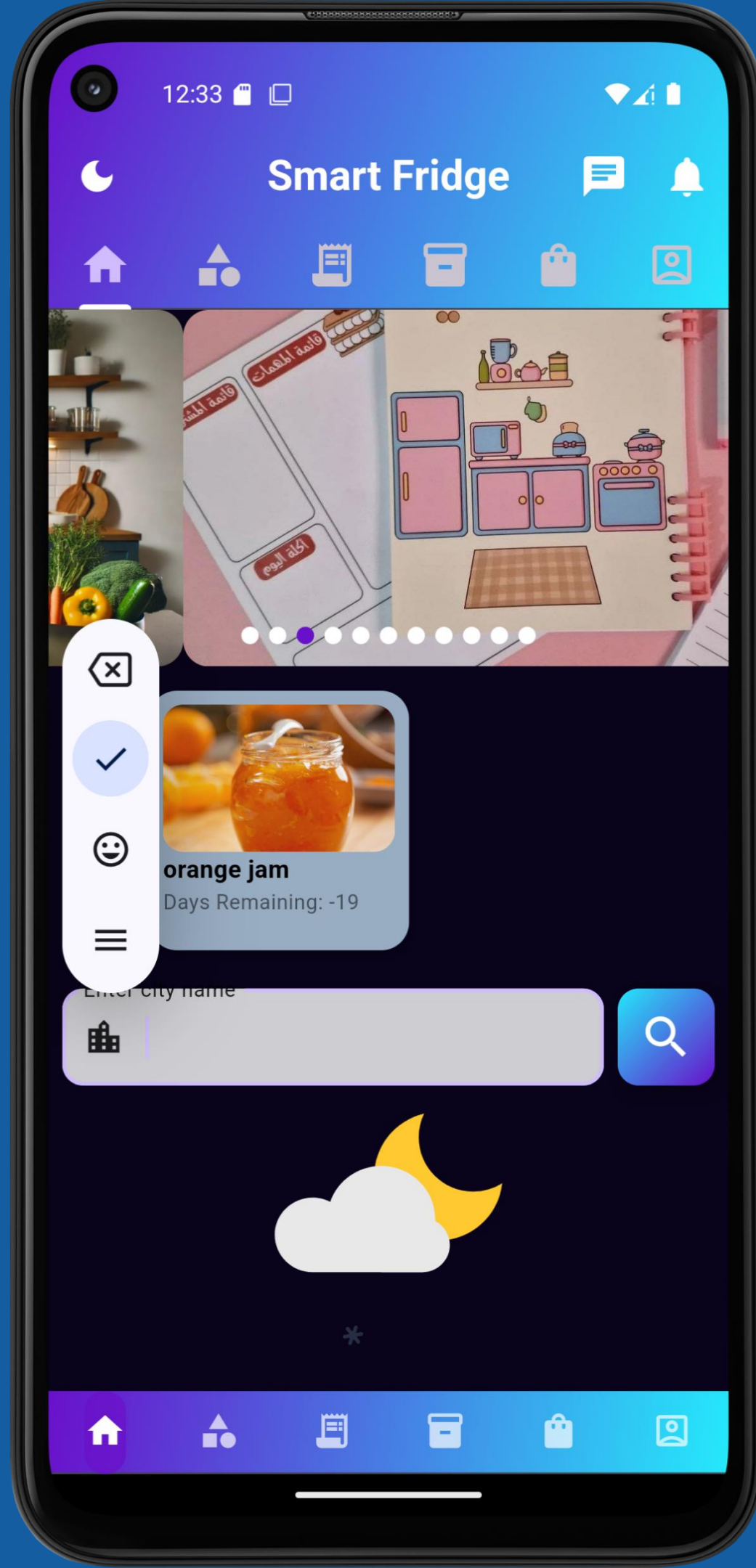
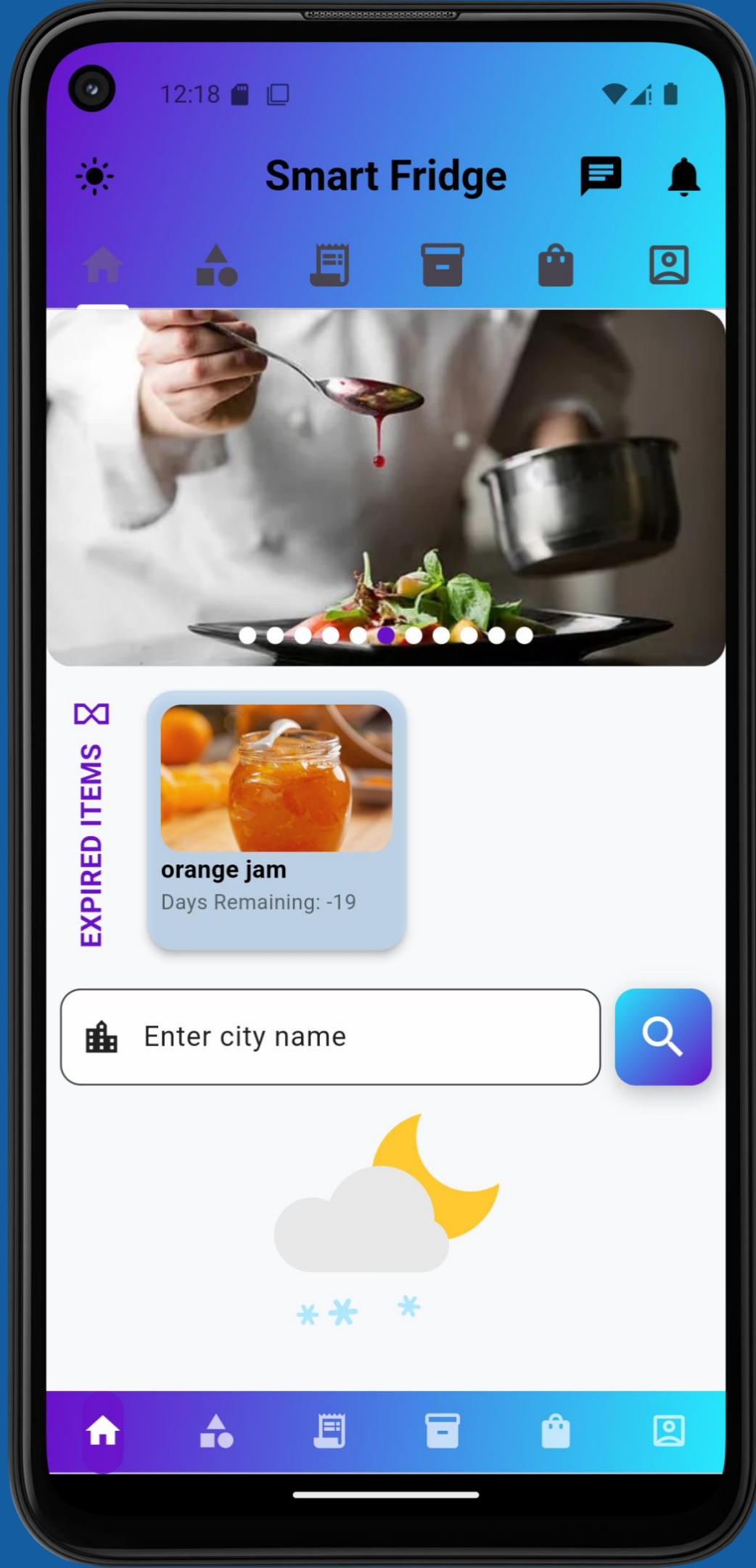
Secure Logout



Ensure user privacy and data security.

HOME PAGE FEATURES





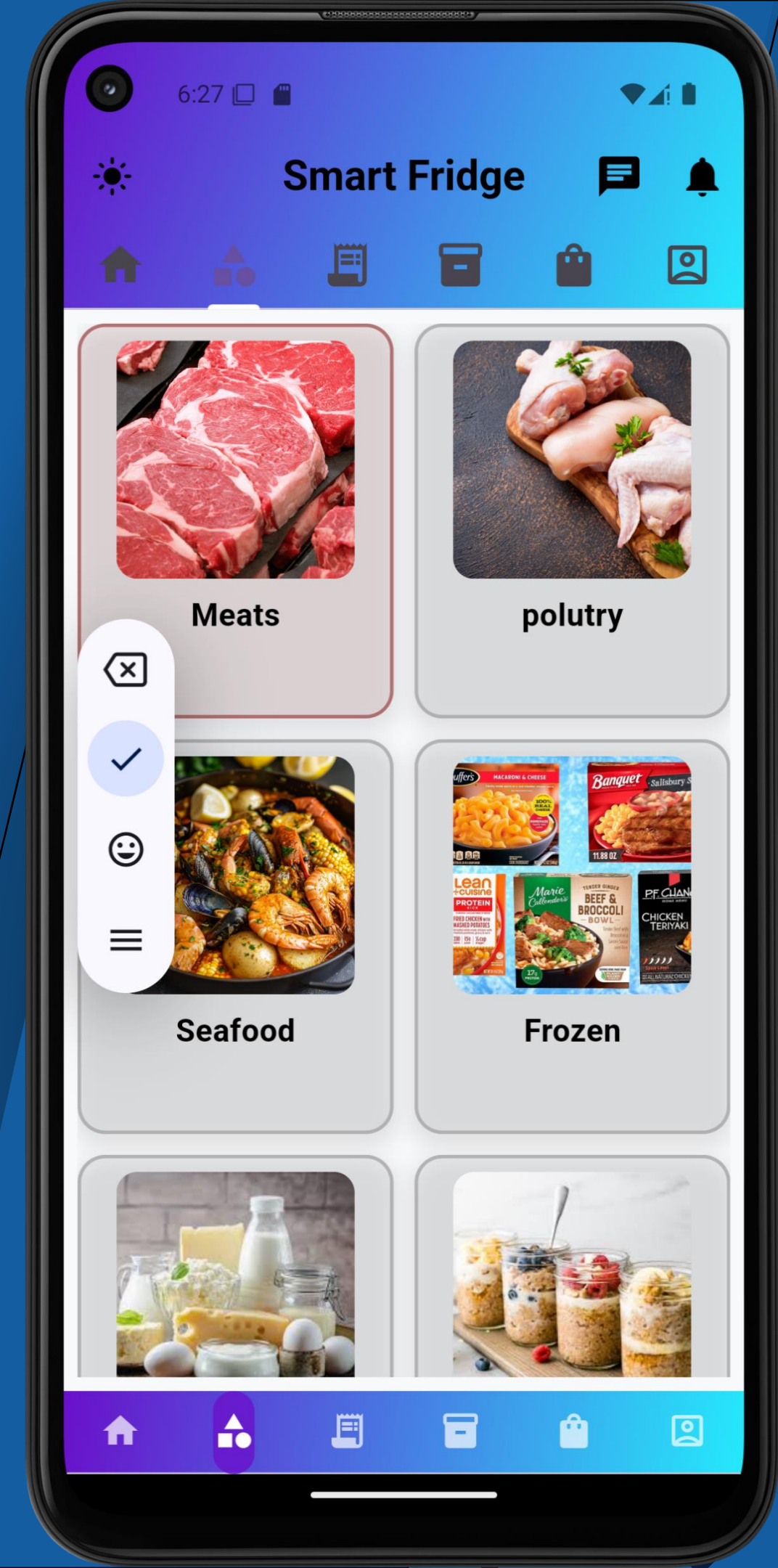
CATEGORIES

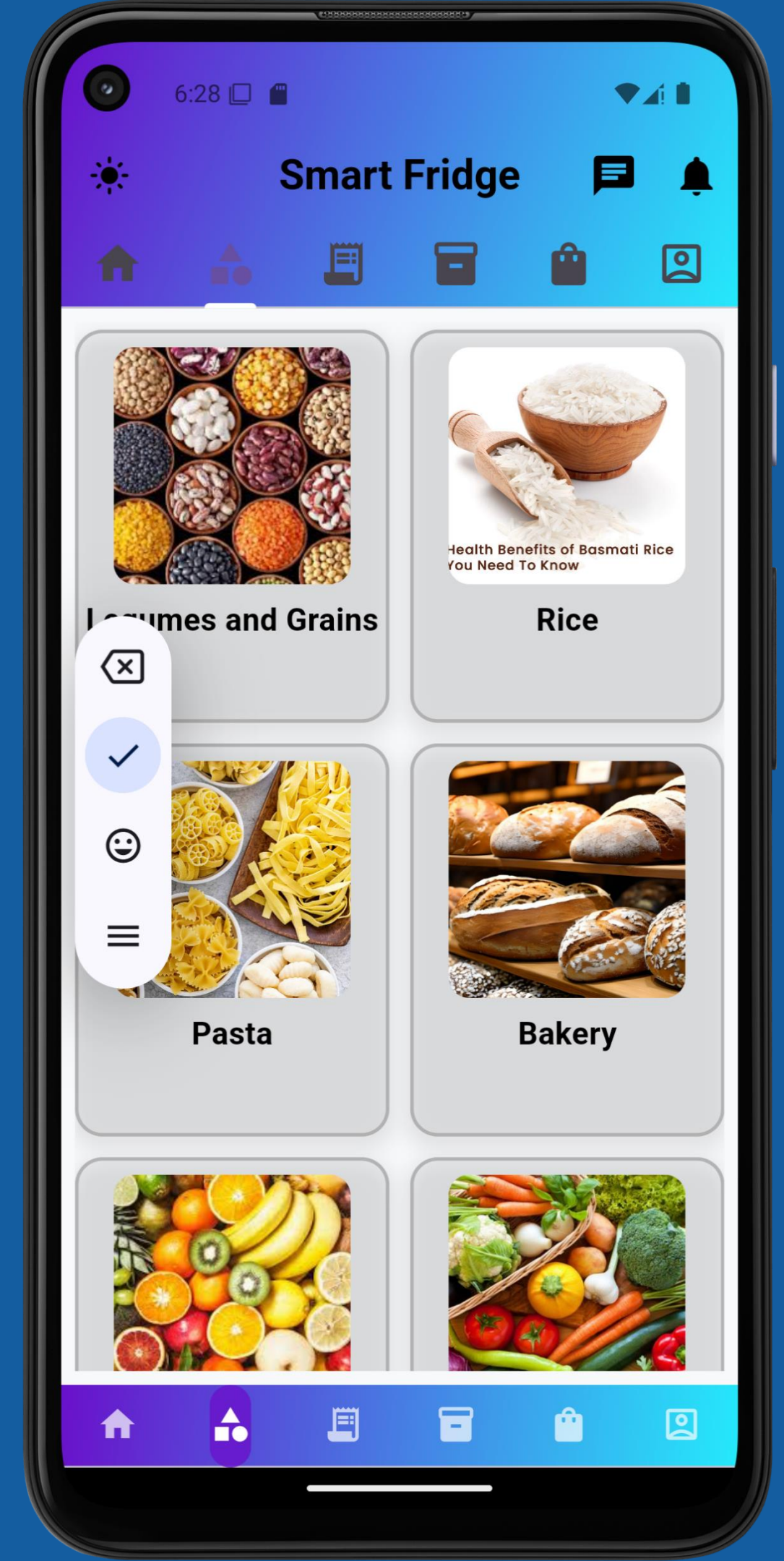
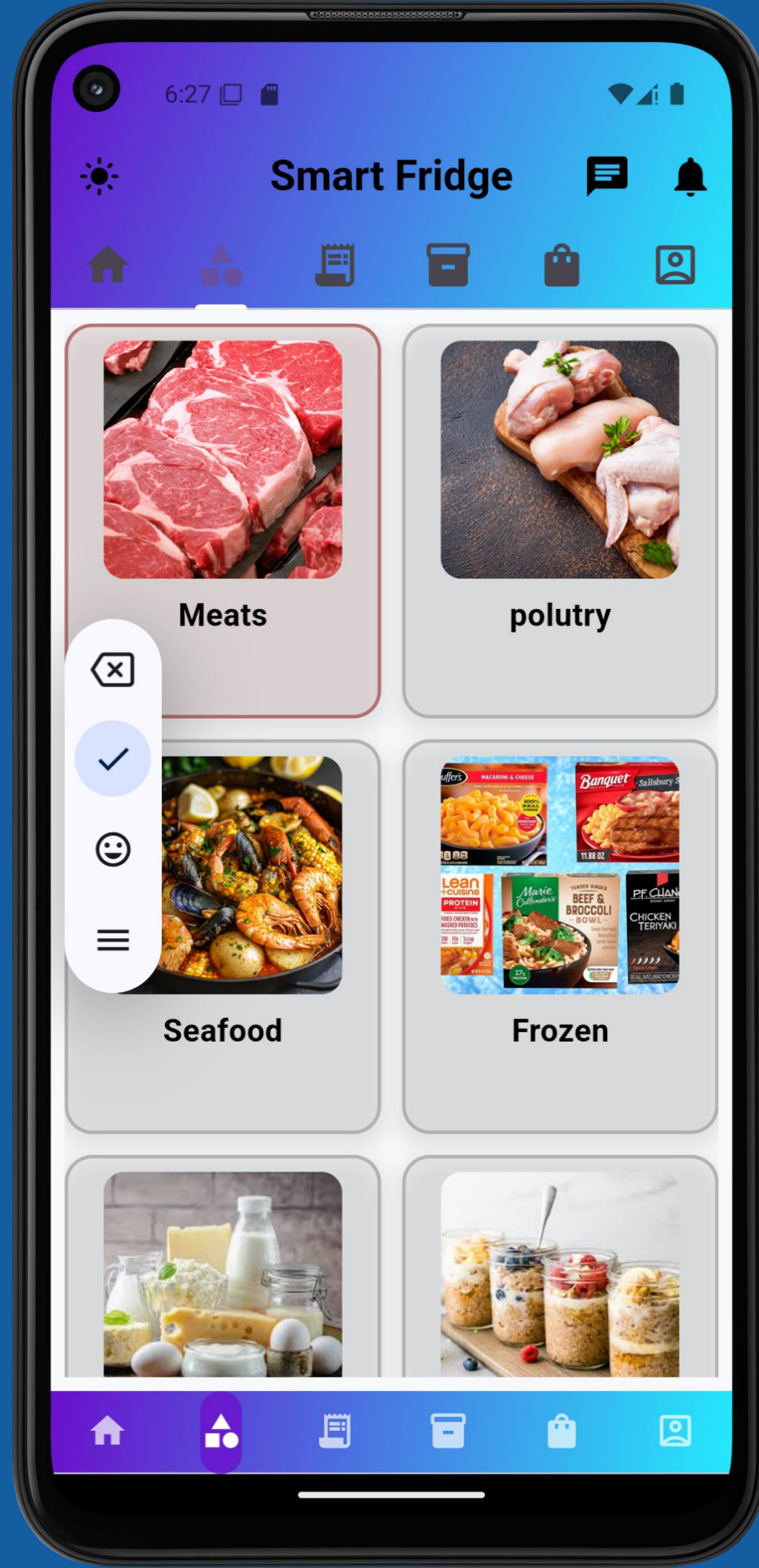
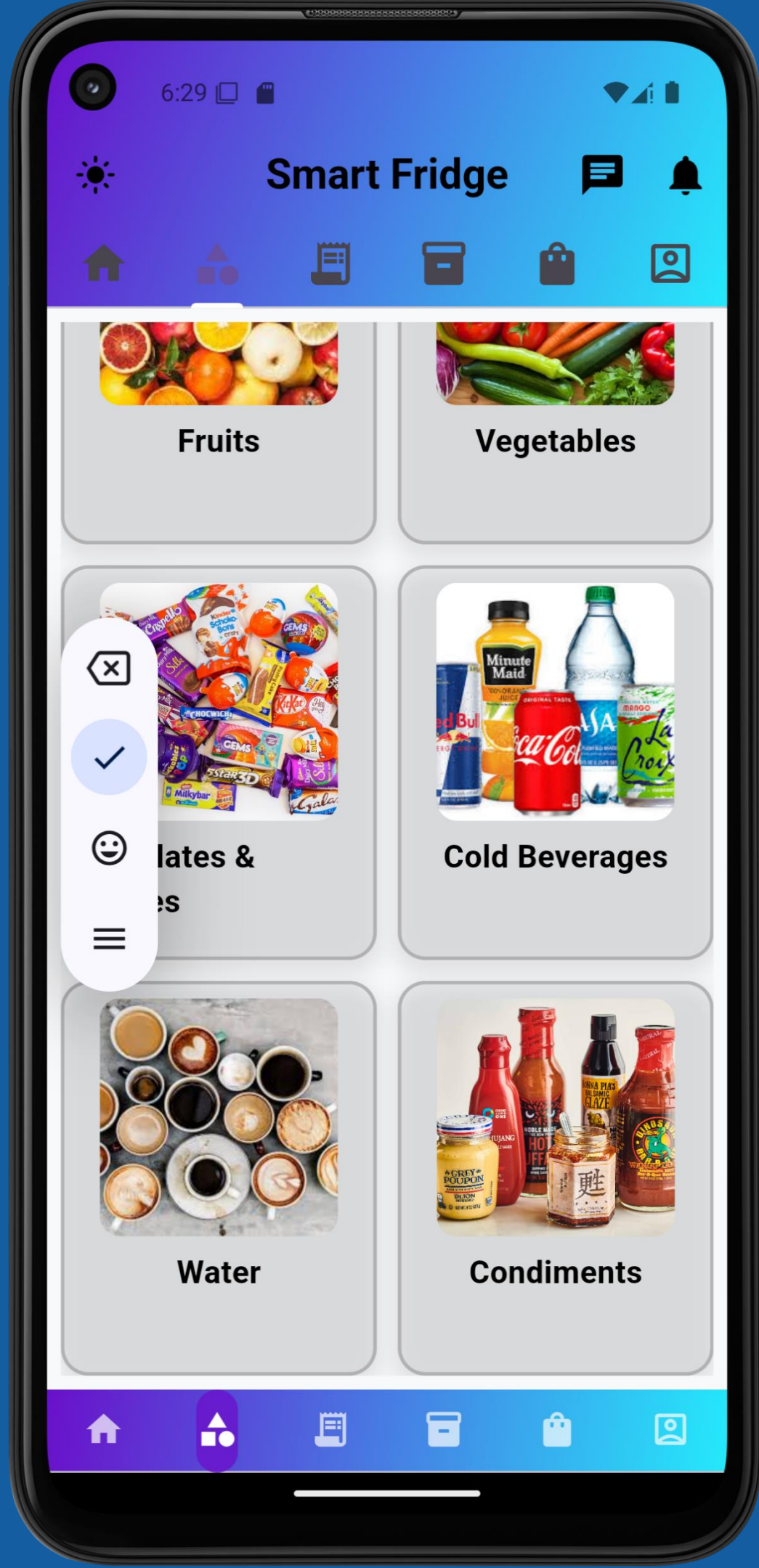
Organized Inventory

Provides structured view of the fridge's contents.

Easy Navigation

Users can browse through different food categories.



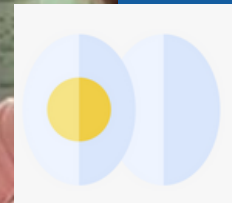


ITEMS IN Ingredients List



Meat & Seafood

Dines ,tuna ,lamb meat,veal.



Dairy & Eggs

Milk, cheese, yogurt, eggs, cream



Fruits & Vegetables

Apples, bananas, tomatoes



Bakery

Bread,Palestinian bread, toast bread

ITEM DESCRIPTIONS

Item	Quantity	Expiry Days	Type	Remaining Days	Lactose Notice	Category
Milk	1	7	Non vegetarian	3	Contains Lactose	Dairy
Chicken	2	3	Non vegetarian	1	None	Meat
Eggs	1	21	Non vegetarian	14	Contains Lactose	Eggs
Apples	3	14	vegetarian	7	None	Fruits

Name: orange jam

Expiry: -19 days

Type: VEGETERIAN

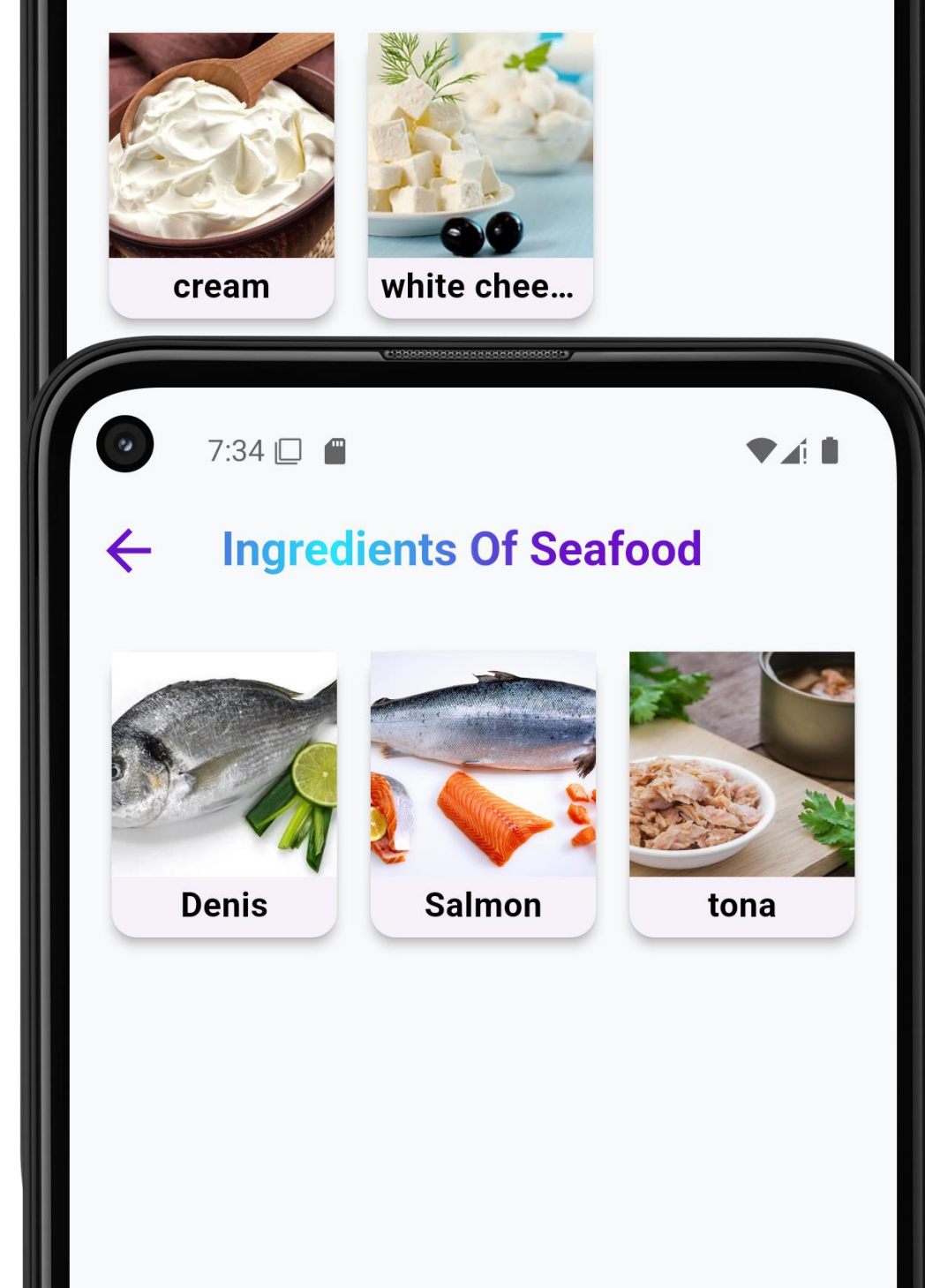
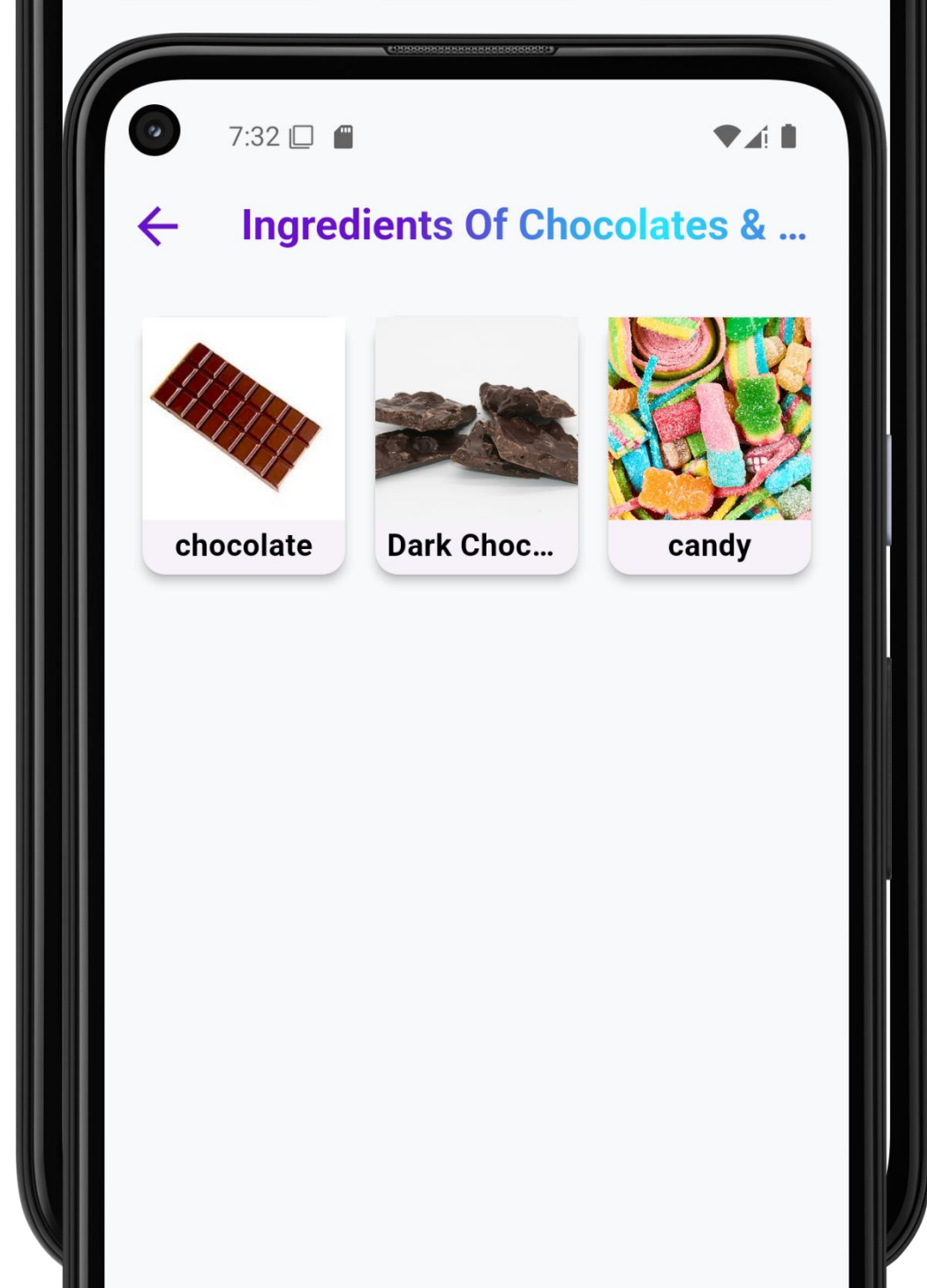
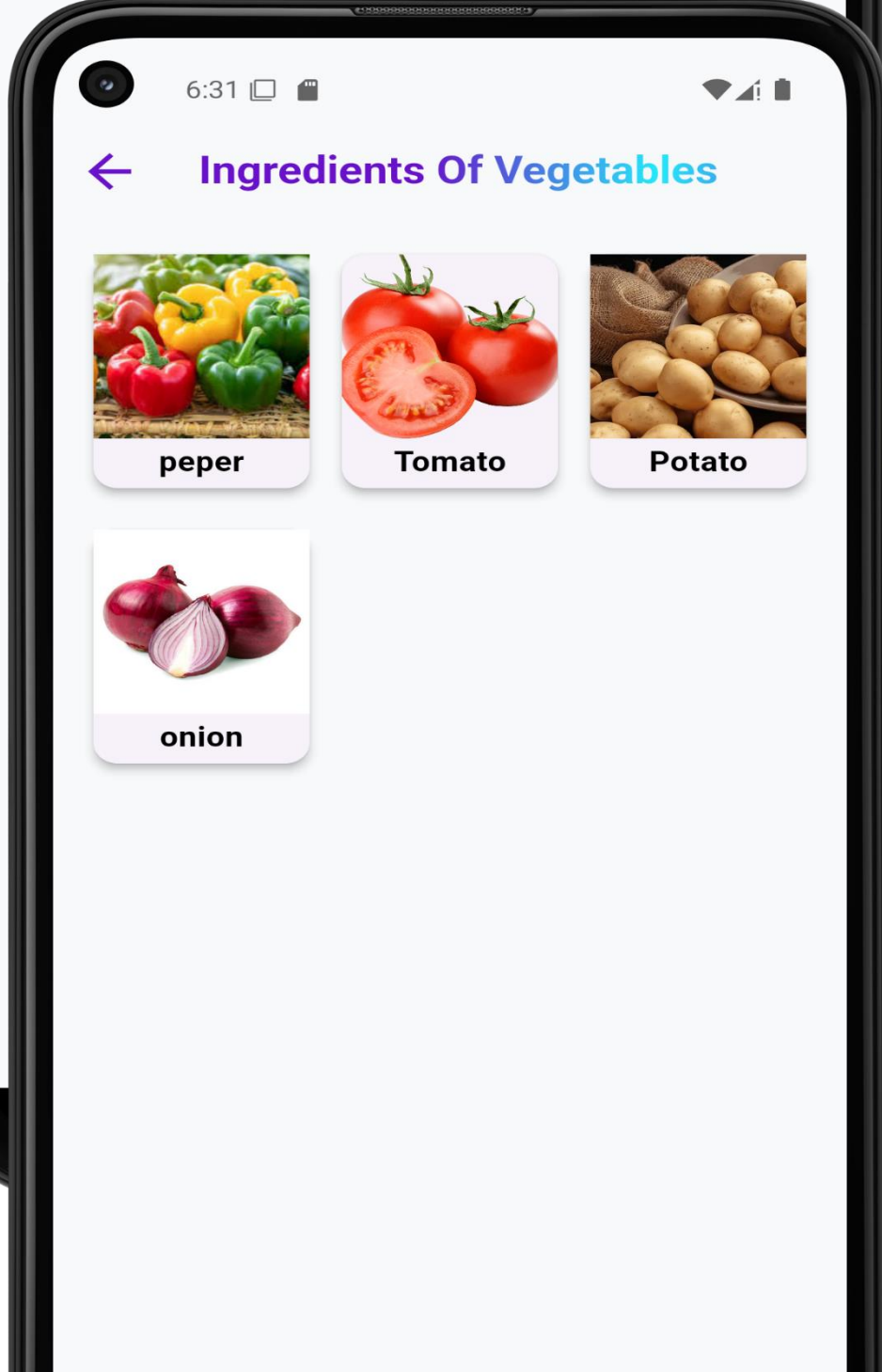
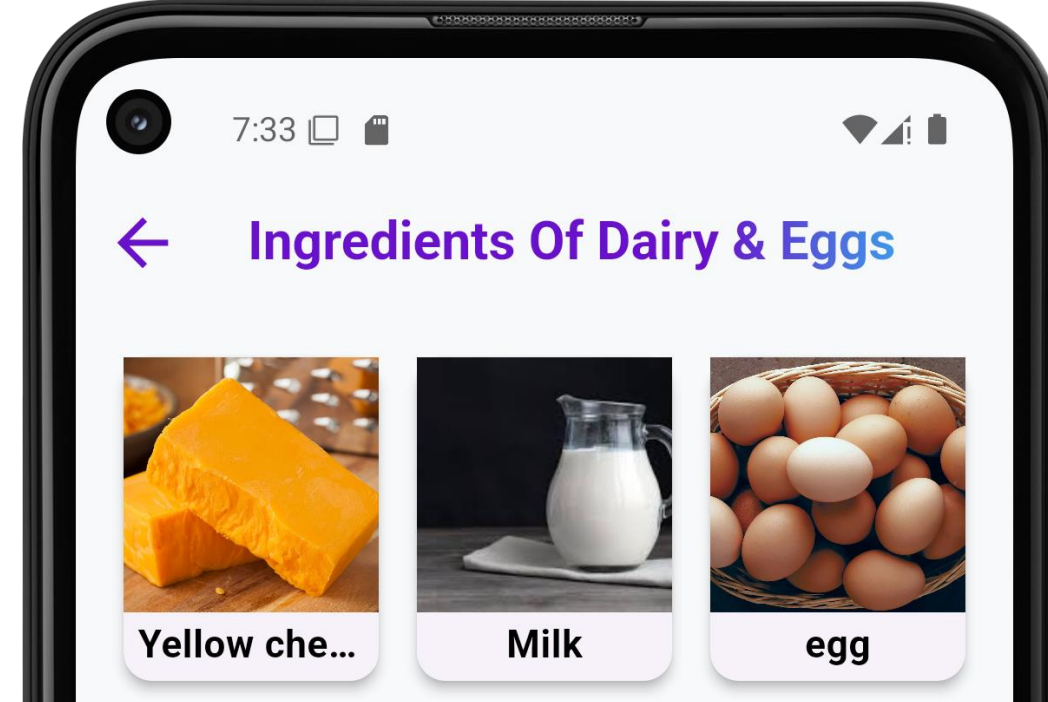
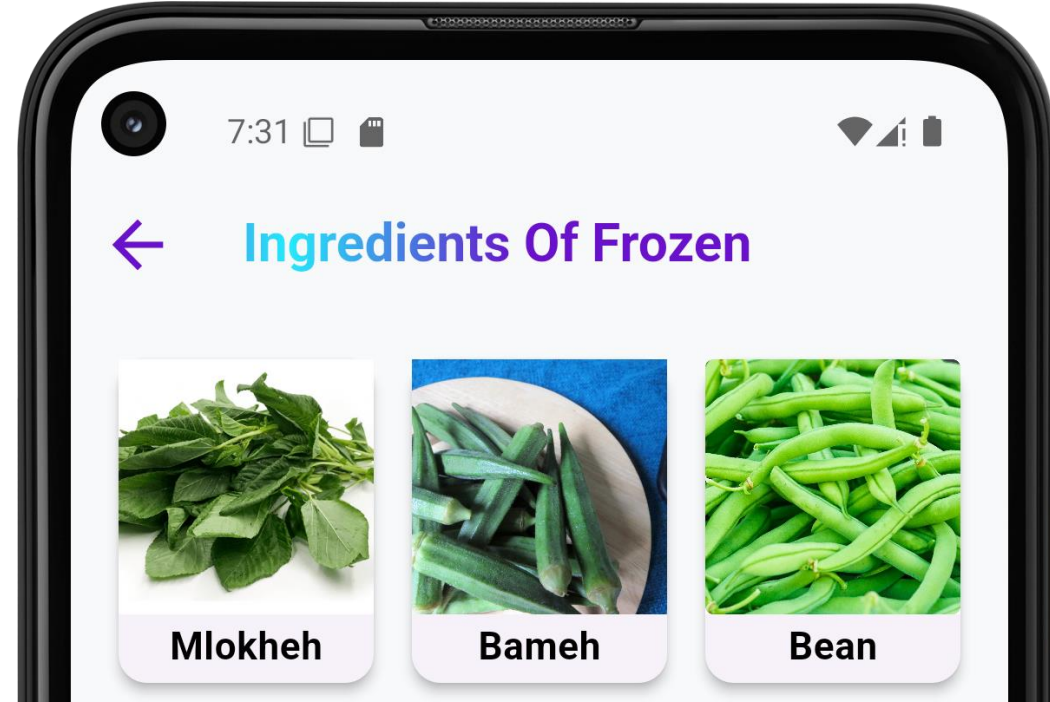
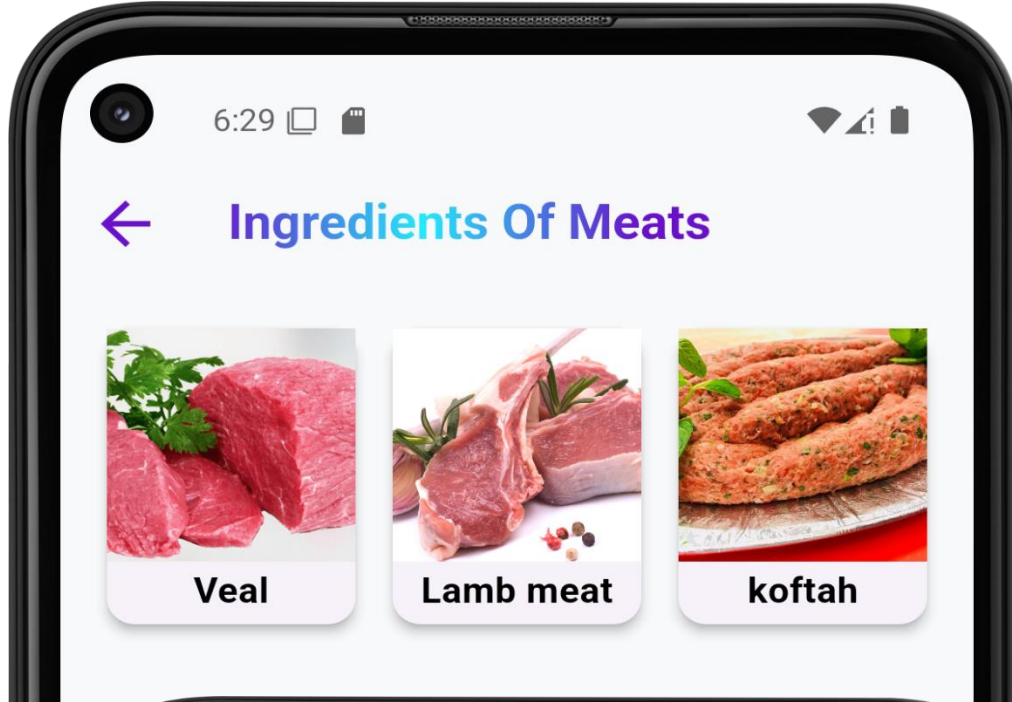
Remaining Days: -19

Lactose: No

Description: 1L

Show less

Category: Breakfast & Jars



← chicken



- 0 +

Add to Items

Name: chicken

Expiry: 19 days

Type: NON_VEGETERIAN

Remaining Days: 19

Lactose: No

Description: 1k

Show less

Category: polutry



Please select a quantity!

← chocolate



- 1 +

Add to Items

Name: chocolate

Expiry: 12 days

Type: VEGETERIAN

Remaining Days: 12

Lactose: Yes

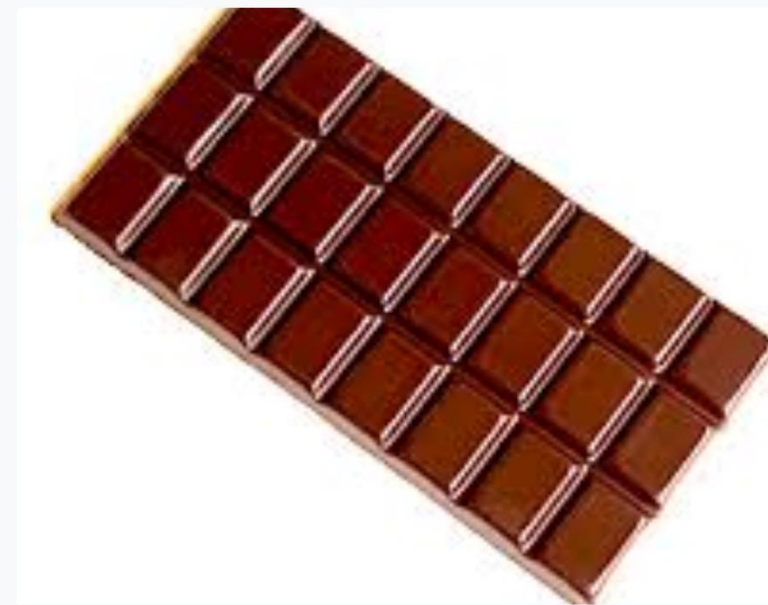
Description: 1

Show less

Category: Chocolates & Candies



← chocolate



- 0 +

Add to Items

Name: chocolate

Expiry: 12 days

Type: VEGETERIAN

Remaining Days: 12

Lactose: Yes

Description: 1

Show less

Category: Chocolates & Candies



Item added successfully!

← Mlokheh



- 0 +

Add to Items

Name: Mlokheh

Expiry: 30 days

Type: VEGETERIAN

Remaining Days: 30

Lactose: No

Description: 1k

Show less

Category: Frozen



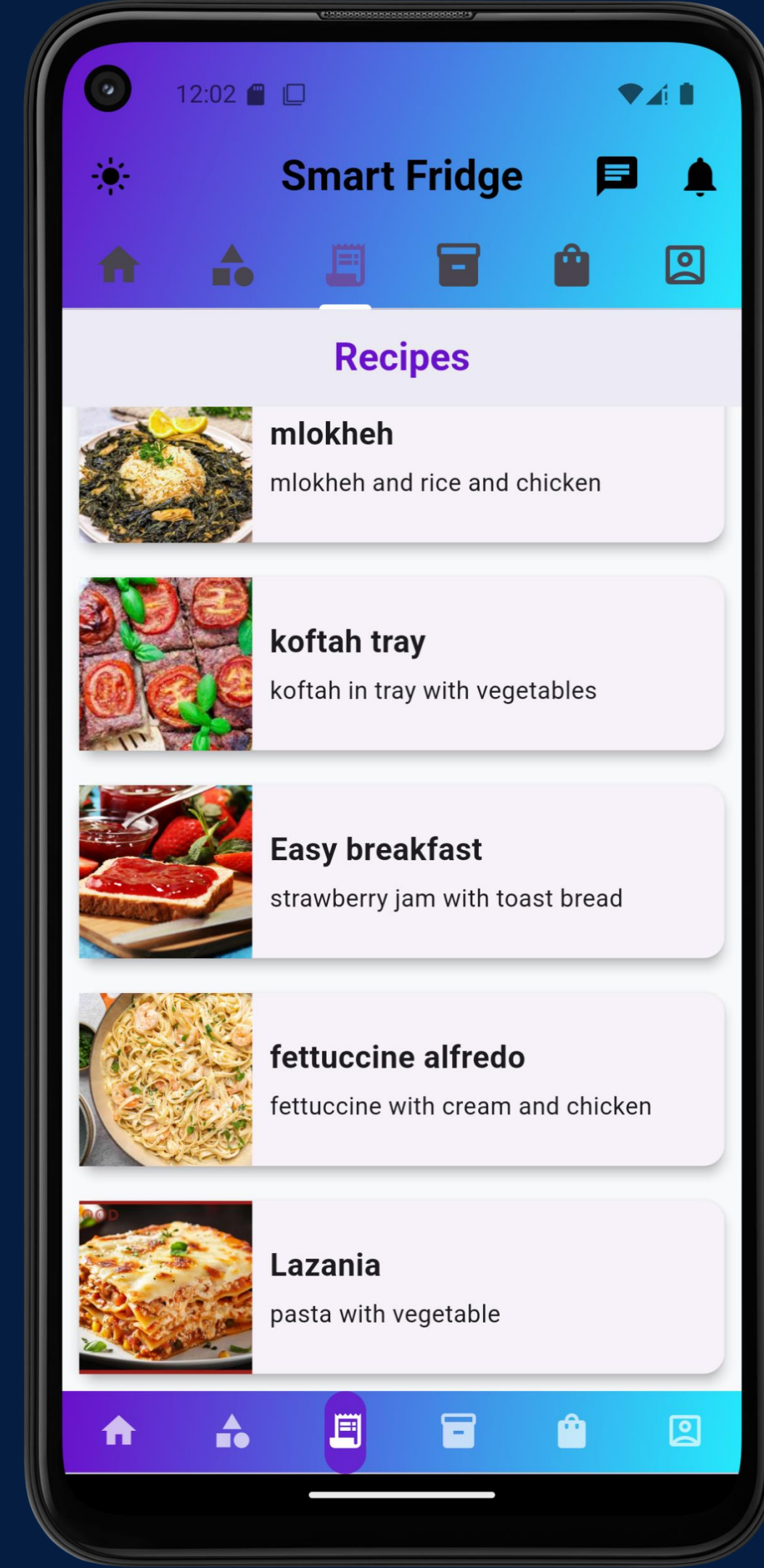
Item added successfully!

RECIPES LIST




Recipe Inspiration

Suggest recipes based on item you have in your fridge .



11:58

← mlokkeh



mlokkeh

mlokkeh and rice and chicken


Calories: 0.0

Ingredients

chicken	1.0
Mlokkeh	1.0
Rice	1.0

11:59

← Easy breakfast



Easy breakfast

strawberry jam with toast bread


Calories: 0.0

Ingredients

strawberry jam	1.0
toust bread	1.0

11:58

← fettuccine alfredo



fettuccine alfredo

fettuccine with cream and chicken

Calories: 0.0

Warning!

This recipe contains lactose. Please proceed with caution if you are lactose intolerant.


Proceed

Ingredients

fototshini pasta	1.0
chicken	1.0
Yellow cheese	1.0
cream	1.0

11:58

← fettuccine alfredo



fettuccine alfredo

fettuccine with cream and chicken

Calories: 0.0

Contains Lactose

Ingredients

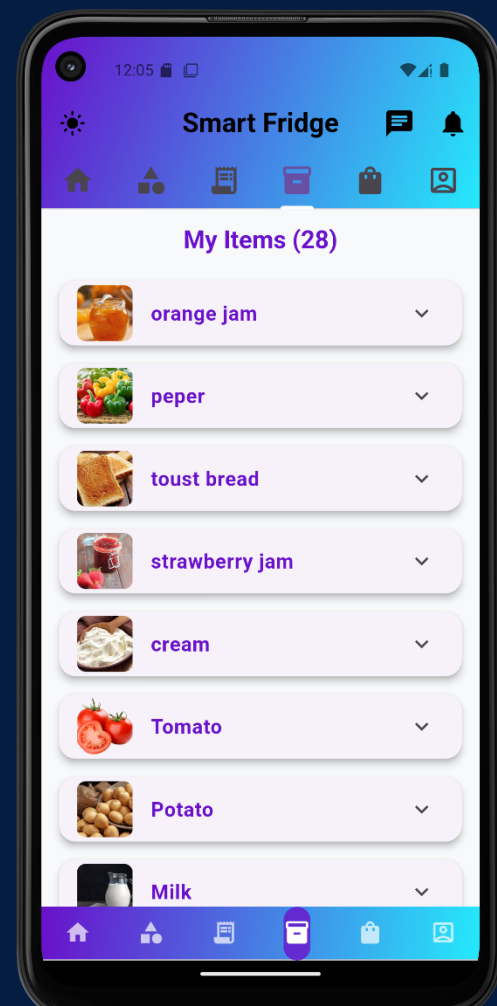
fototshini pasta	1.0
chicken	1.0
Yellow cheese	1.0
cream	1.0

Fridge Items

1

Add Items

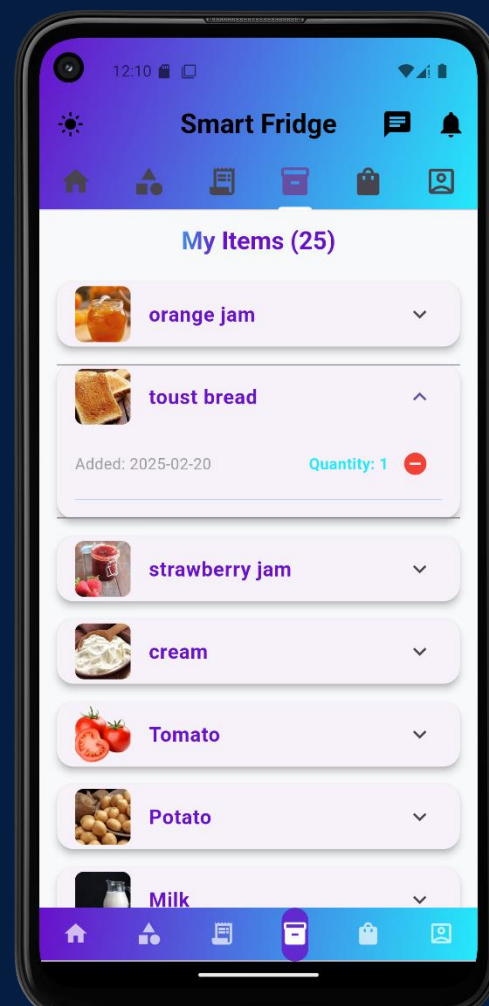
Users can add new items to the fridge, including the item's name, quantity, and the date it was added.



2

Track Usage

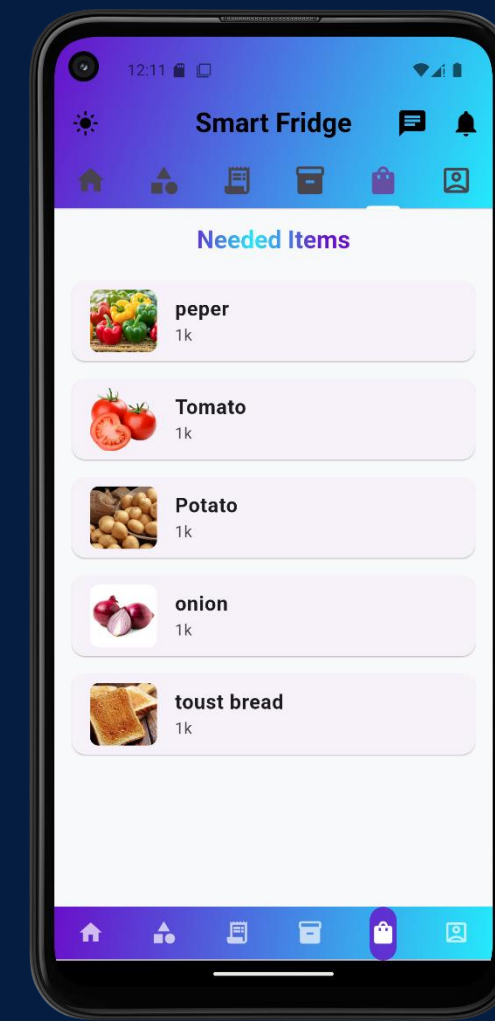
When an item is used, users can reduce its quantity. This helps keep track of remaining inventory.



3

Automatic Shopping List

When an item runs out, it's automatically added to the shopping list for replenishing.



NEEDED ITEM

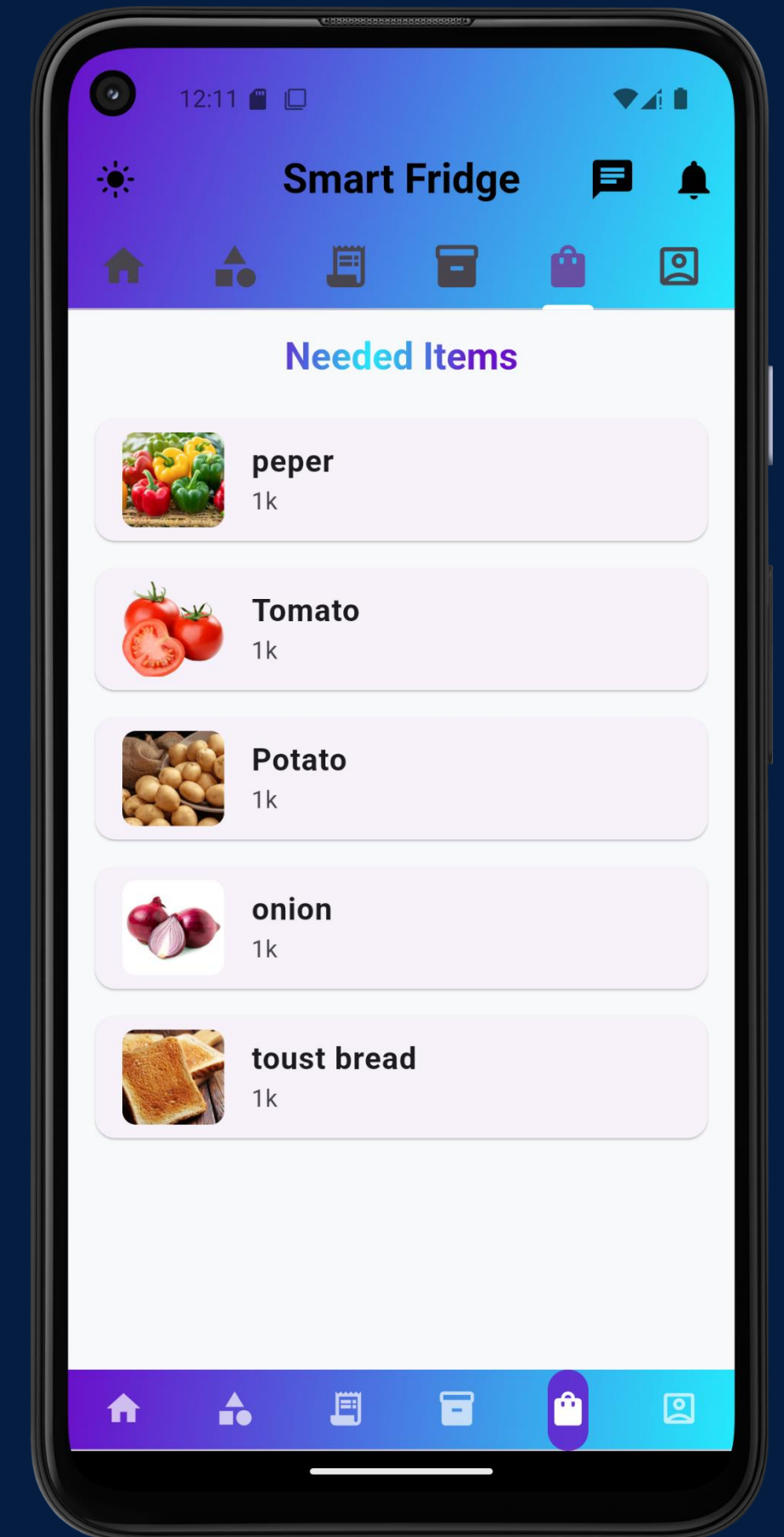
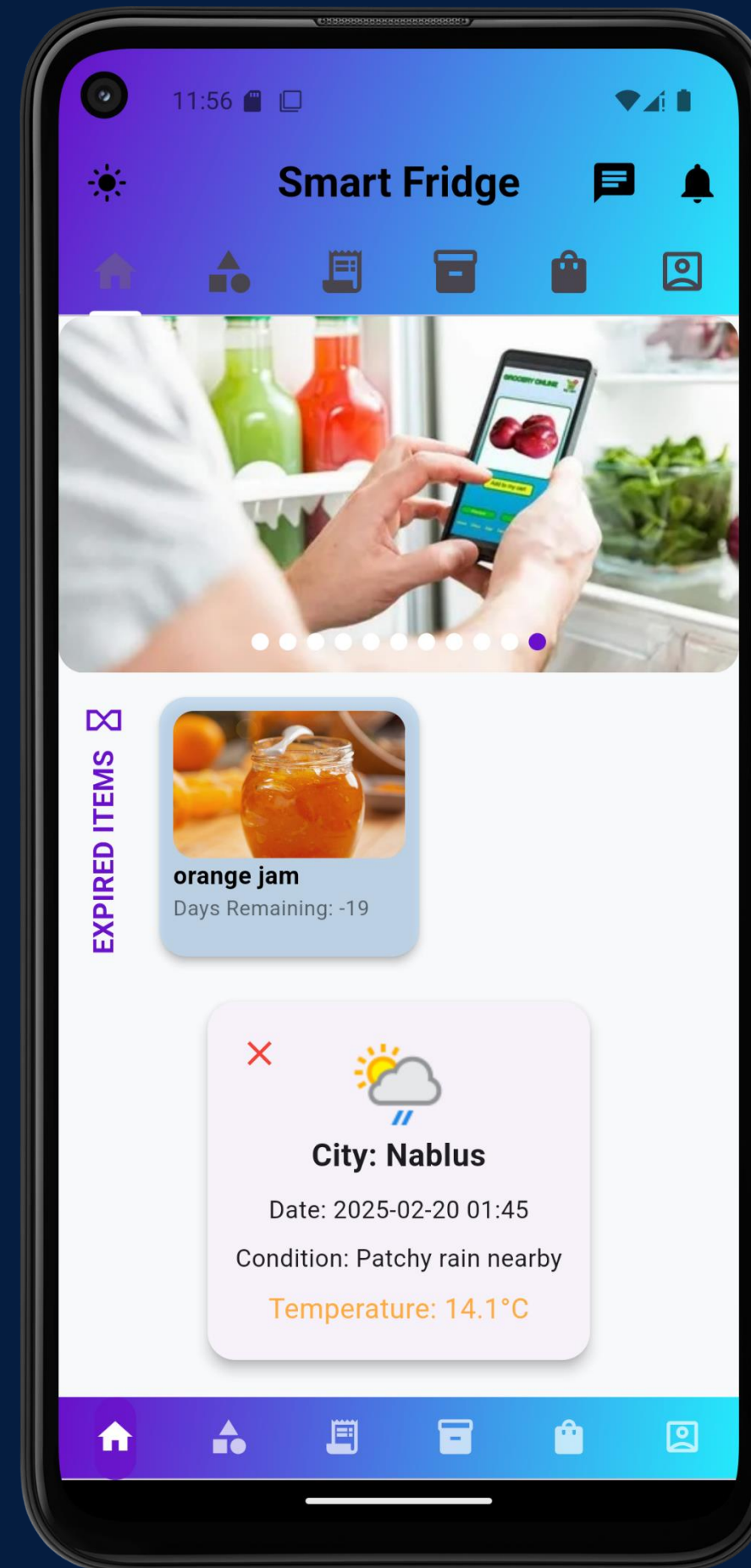
Shopping List

Users can view a list of items that are running low in their fridge.

Expired Items List

Users can view a list of expired items in their fridge.

at home page





NOTIFICATIONS LIST

Delete All

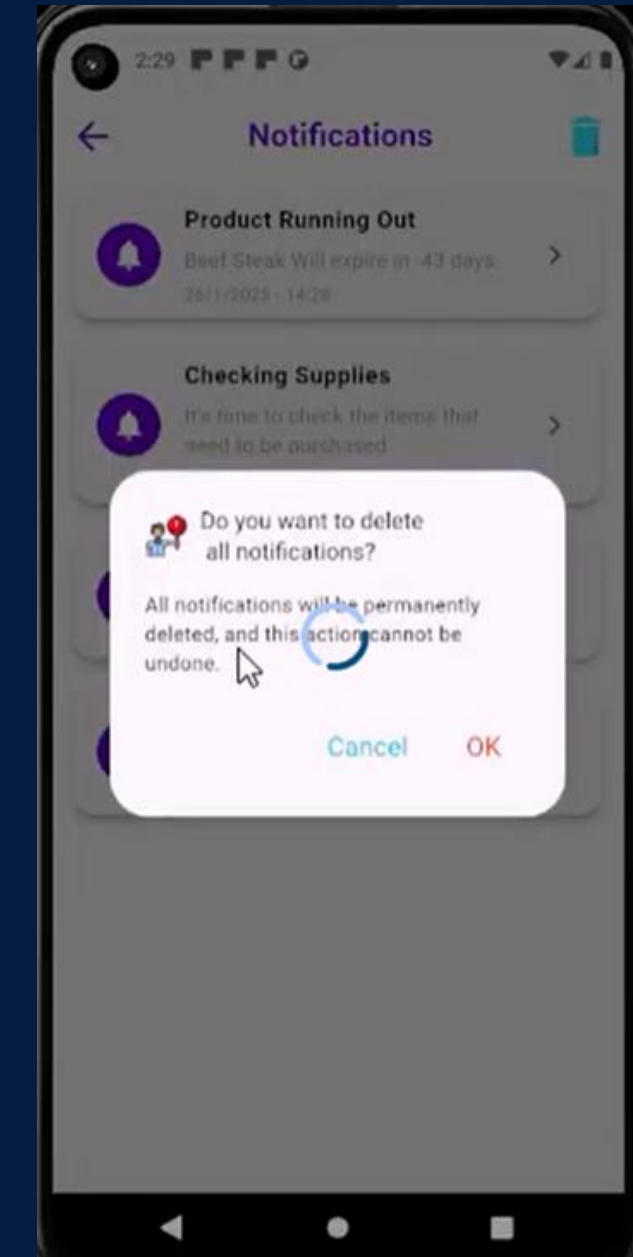
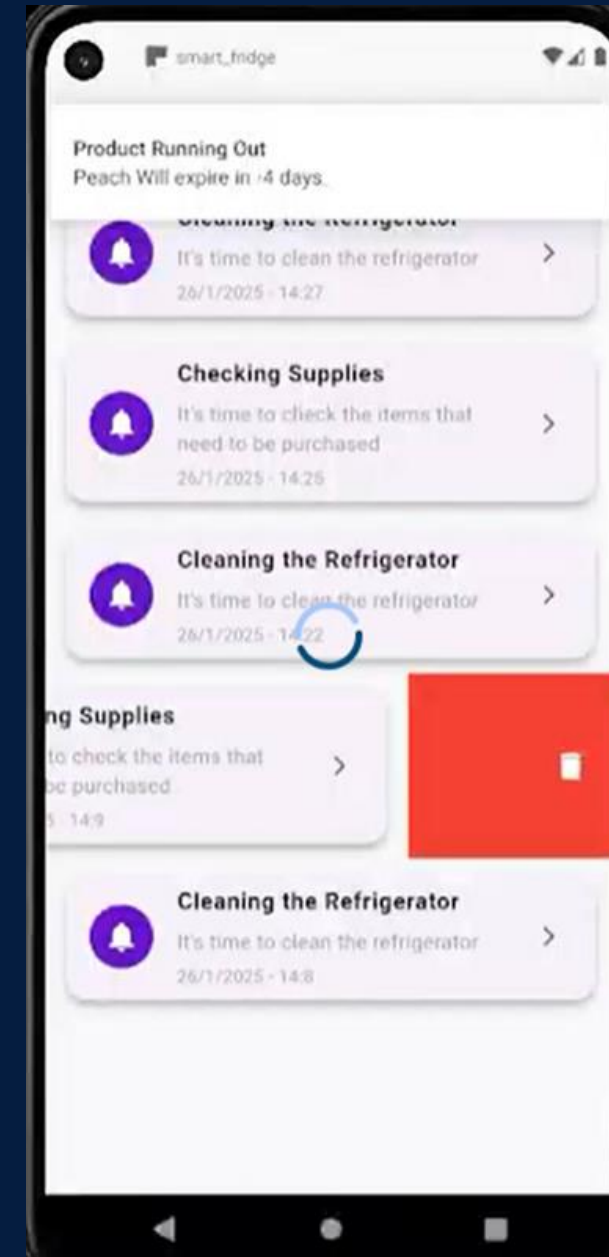
Users can clear all notifications at once for a clean interface

Delete Individual Notifications

Allow users to remove specific notifications they no longer need.

Alert Notifications

Provide timely alerts, such as expired items or low stock.





NOTIFICATIONS LIST



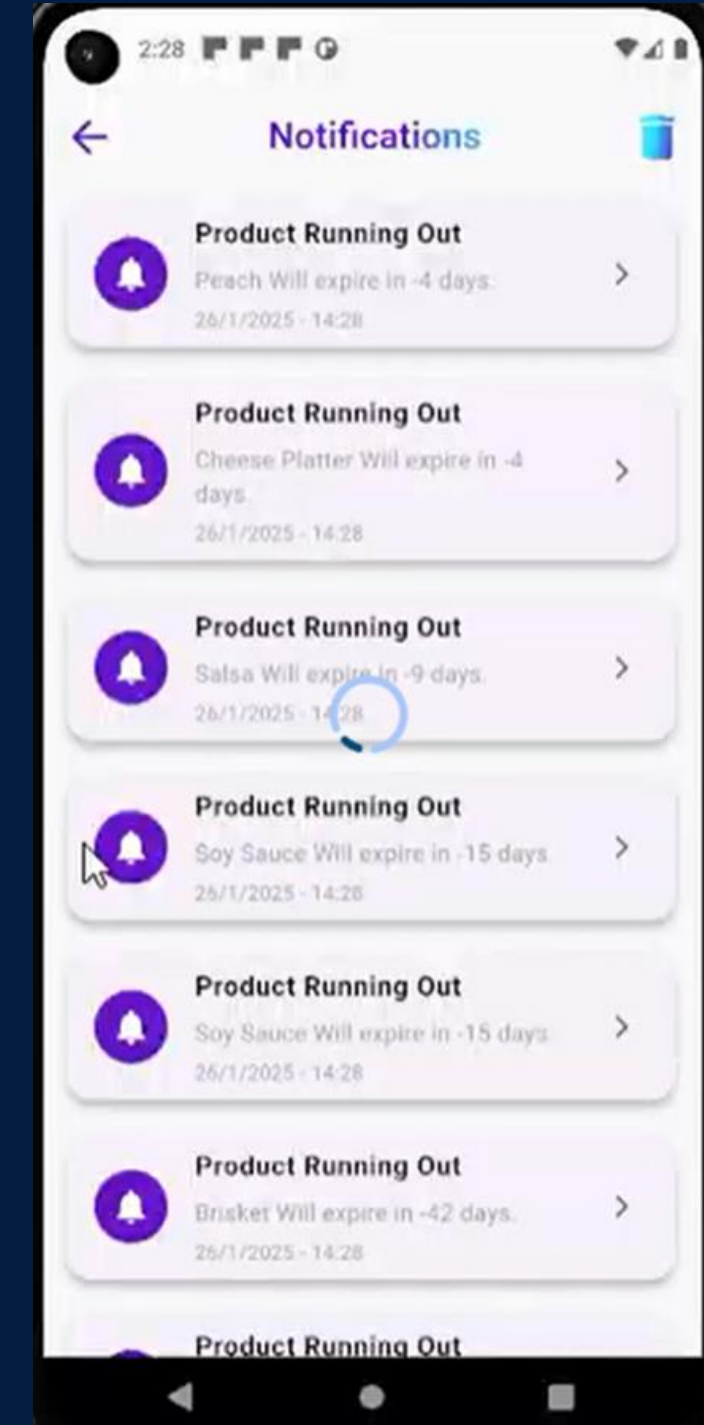
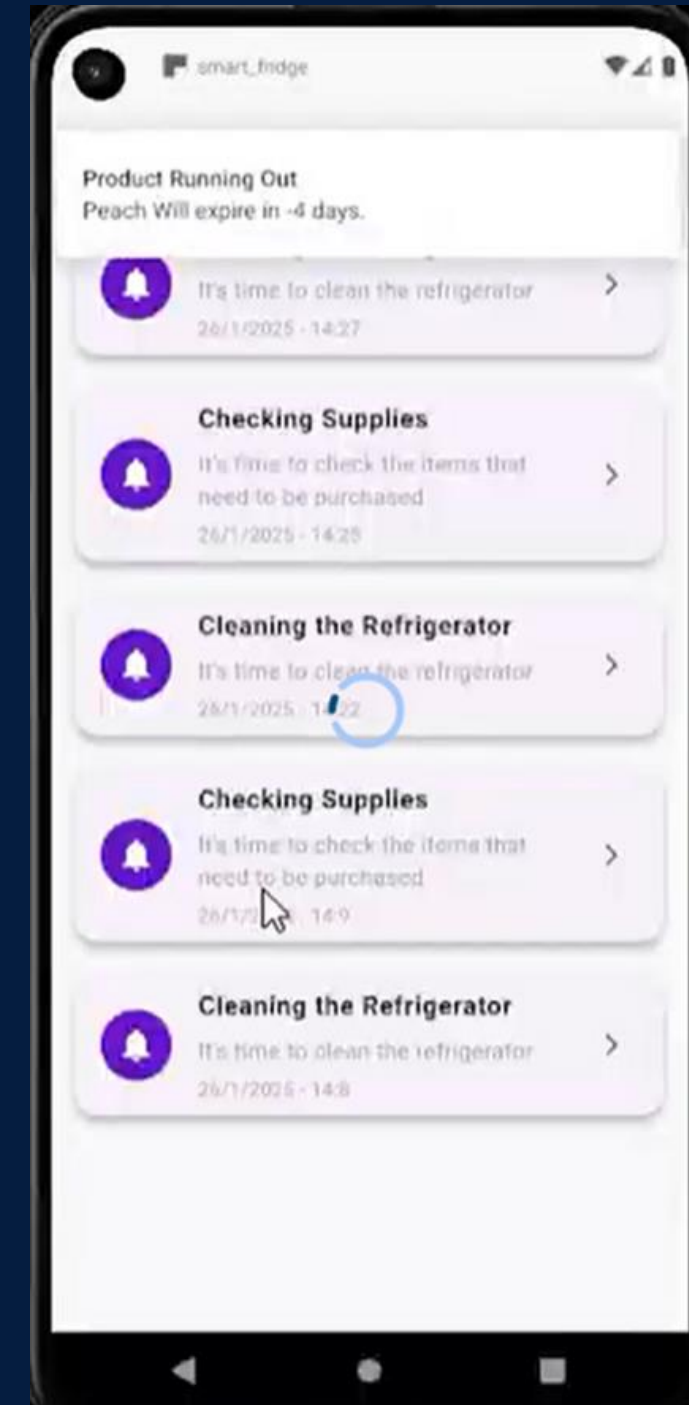
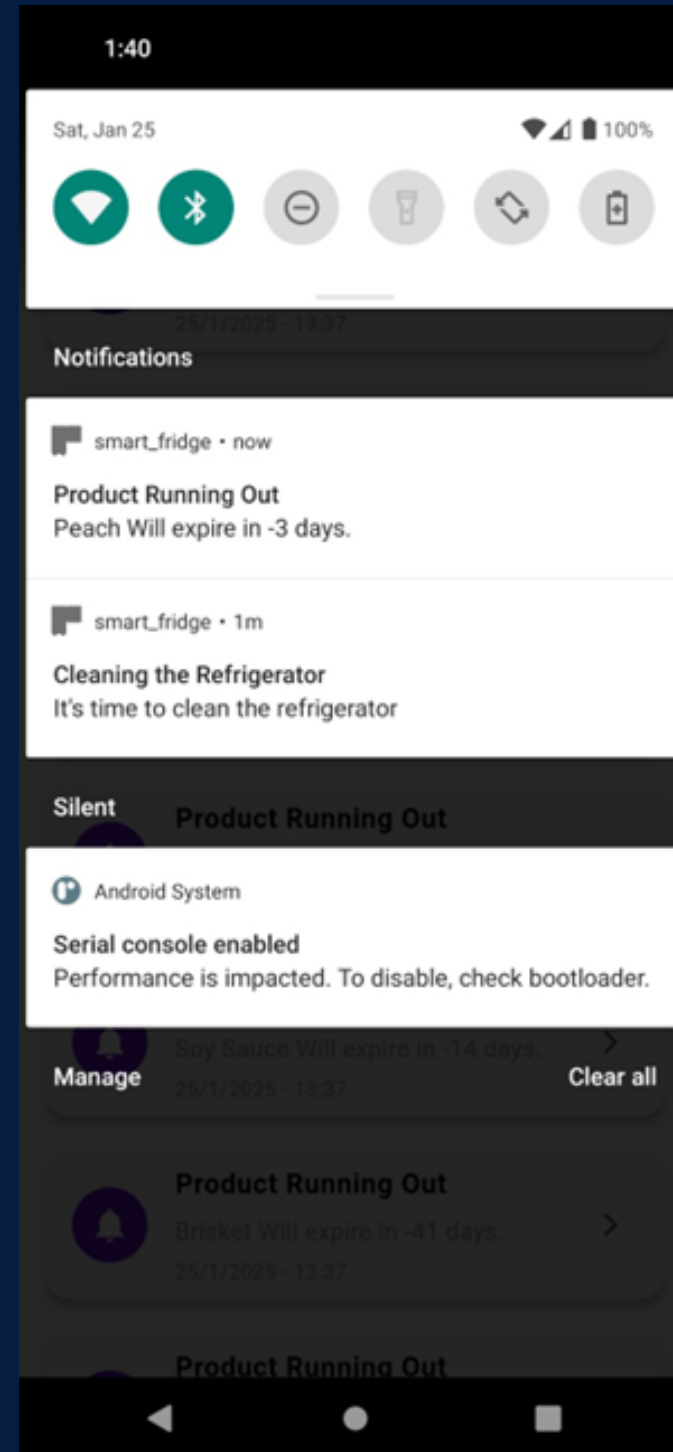
product run out



Checking Supplies



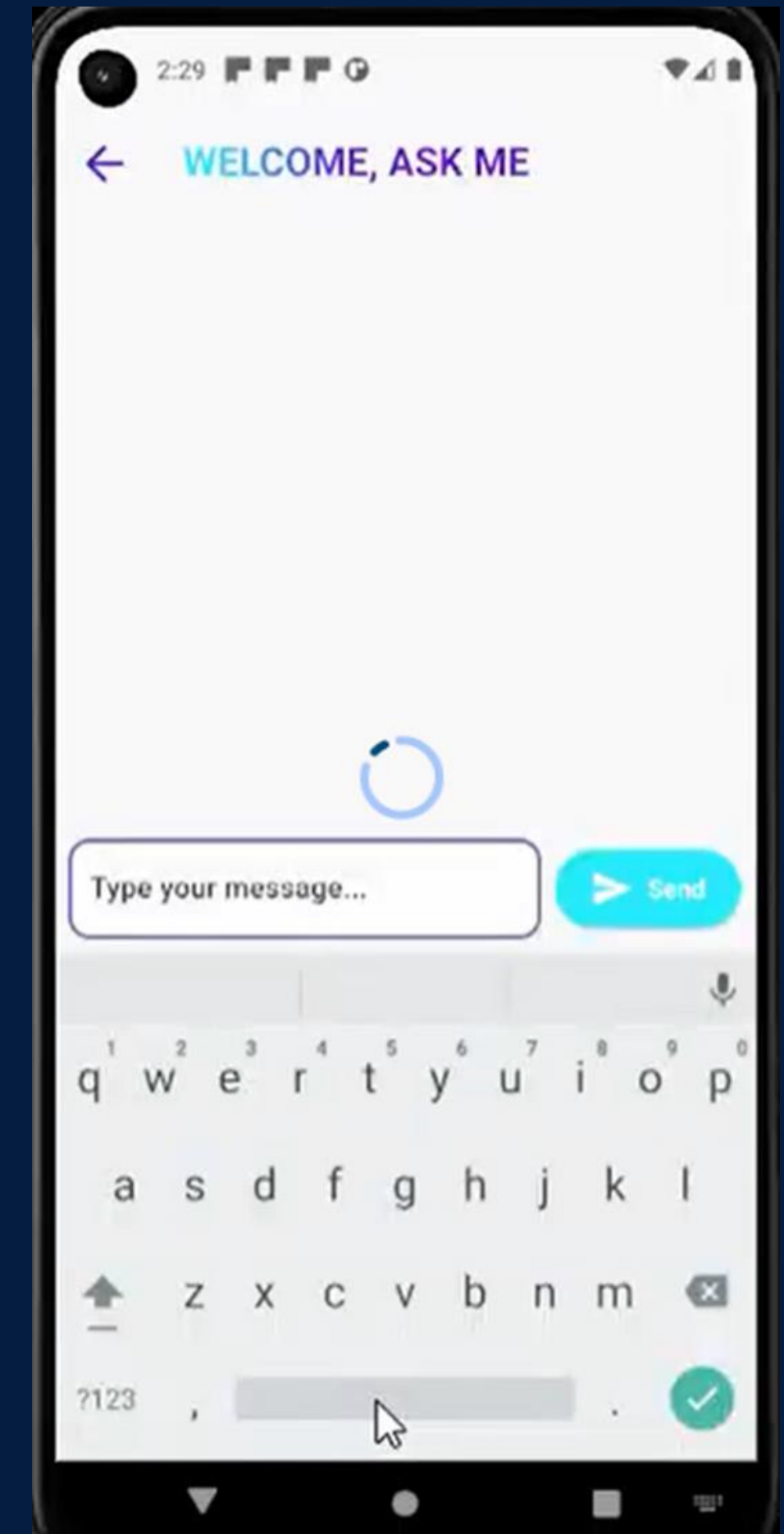
cleaning the fridge





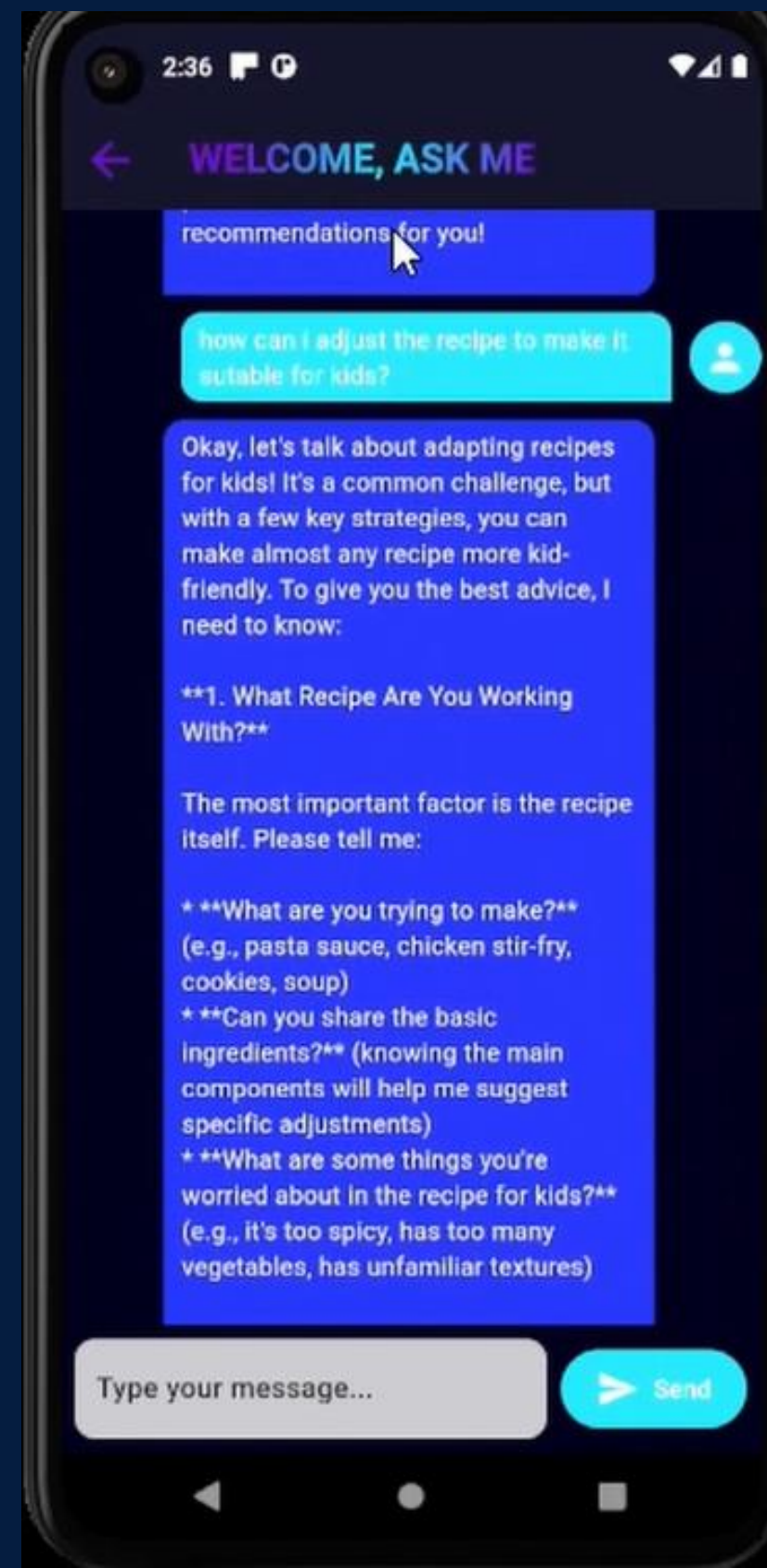
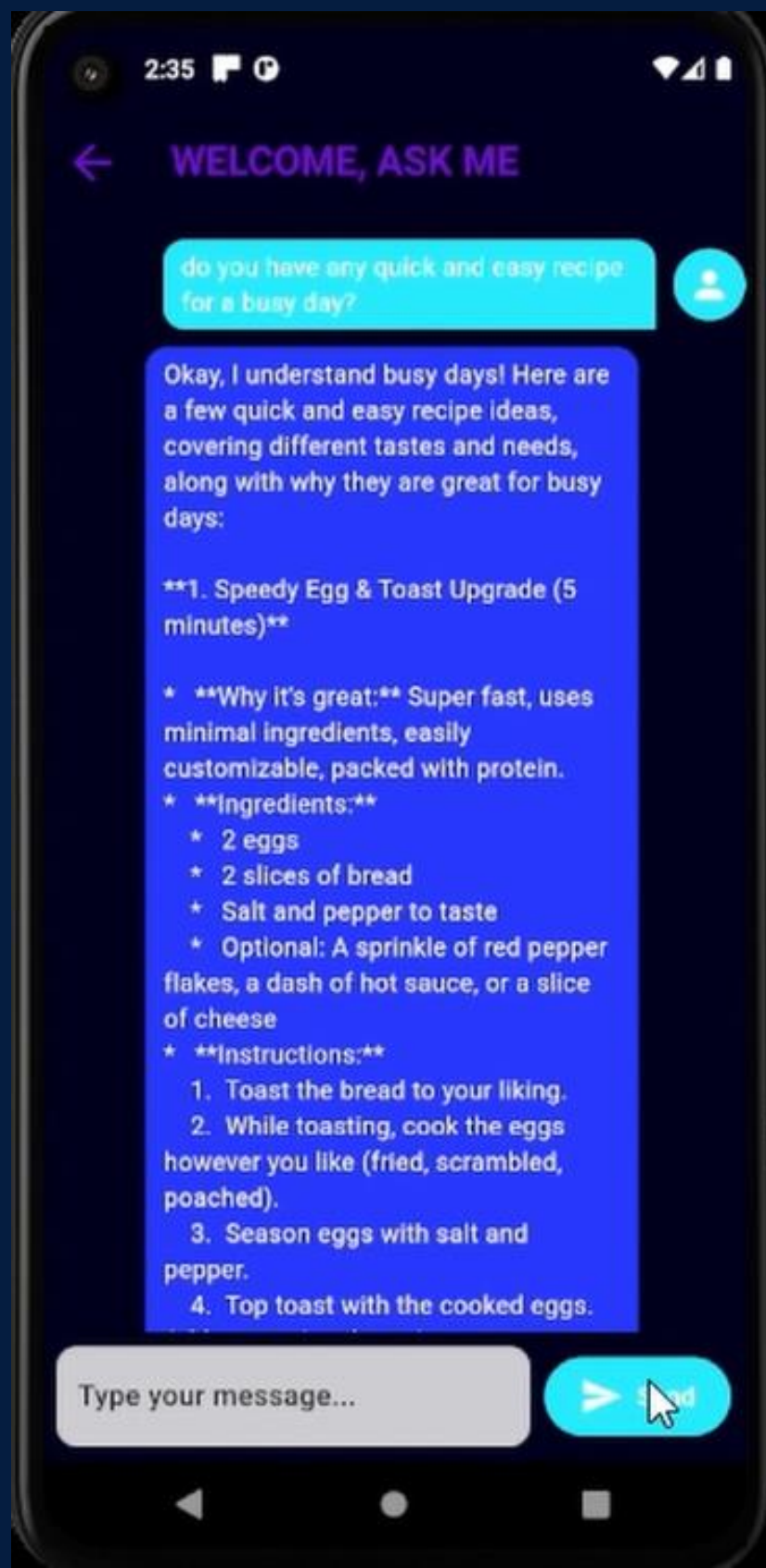
CHATBOT AI

Our SmartFridge app utilizes a conversational AI chatbot for user interactions and to assist with recipe suggestions and inventory management.
by using API gemini





CHATBOT AI



6:42



WELCOME, ASK ME

give me an idea what should i do today ?



Okay, let's brainstorm some ideas for your day! To give you the **best** suggestion, I need a tiny bit more information. But let's start with some general ideas, and then I'll refine them if you tell me a little more:

****Here are some general ideas, broken down into categories:****

****1. Relaxing & Recharging:****

* ****Self-Care Day:**** Take a long bath, read a book, listen to music, meditate, do a face mask, give yourself a manicure.

* ****Nature Walk:**** Go for a walk in a park, forest, or by the water. Enjoy the fresh air and scenery.

* ****Movie Marathon:**** Pick a genre or a director and settle in for a day of movies.

* ****Nap Time:**** Sometimes, the best thing you can do is catch up on sleep.

****2. Productive & Engaging:****

* ****Tackle a Task:**** Is there a chore you've been putting off? Laundry

Type your message...



Send



DASHBOARD FEATURES

Administrative Tools

Categories



Admin can add, view, edit, and display all categories of food items.

Items

Allows managing specific food items, including their details, quantities, and expiration dates.

Recipes

Admin can access, add, edit, and view a comprehensive list of recipes.





Username *

test@admin.com|

Password *

••••••

SIGN IN

☰ Categories

+ CREATE

☰ Items

☰ Recipes

<input type="checkbox"/>	Id ↑	Name	Image
<input type="checkbox"/>	1	Meats	https://www.allrecipes.com/thmb/zN81HQ86Fa2rHnkH-KUvUf6pBZE=/1500x0/filters:no_upscale():max_bytes(150000):strip_icc()/Cuts-of-Beef-3x2-1-a557f31f8b13462185b4f2c17ab5b746.png
<input type="checkbox"/>	2	poultry	https://avinews.com/wp-content/uploads/2024/02/Poultry-meat-consumption.png
<input type="checkbox"/>	3	Seafood	https://getfish.com.au/cdn/shop/articles/Step_3_-_Seafood_Boil_a1d45dbd-33dd-464c-a493-d6e436765e6c.png?v=1726890668
<input type="checkbox"/>	4	Frozen	https://www.chowhound.com/img/gallery/12-store-bought-frozen-meals-to-keep-out-of-your-cart/intro-1725980976.jpg
<input type="checkbox"/>	5	Dairy & Eggs	https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcT3VaLVPDGYWS4K_3wLtKPpRXVncX0KJT11_Q&s
<input type="checkbox"/>	6	Breakfast & Jars	https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTke-FljgEwM64xK_y3NH6mL-0oYZxLp-DM0g&s
<input type="checkbox"/>	7	Legumes and Grains	https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRTbl28e9tGmx1xS4IBtufZ6eiVI1TwMRoEAA&s
<input type="checkbox"/>	8	Rice	https://manjilas.com/wp-content/uploads/2022/06/Health-Benefits-of-Basmati-Rice.jpg
<input type="checkbox"/>	9	Pasta	https://www.jessicagavin.com/wp-content/uploads/2020/07/types-of-pasta-7-1200.jpg
<input type="checkbox"/>	10	Bakery	https://baketivity.com/wp-content/uploads/2024/07/The-History-of-the-Bakery-Industry-A-Comprehensive-Overview-768x512.jpg
<input type="checkbox"/>	11	Fruits	https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQMkBBQ_DxYAZu4rfOP4BgYo9NPektkMPob7Q&s

 Categories

 Items

 Recipes

Id

Name

oil

Image

<https://cdn.cloverhealth.com>

Category Color

#000000

 SAVE

Categories

Items

Recipes

<input type="checkbox"/>	Id ↑	Name	Description	Type	Lactose	Image
<input type="checkbox"/>	6	Apple	1K	VEGETERIAN	×	https://assets.clevelandclinic.org/transform/cd71f4bd-81d4-45d8-a450-74df7
<input type="checkbox"/>	7	Banana	1k	VEGETERIAN	×	https://images.immediate.co.uk/production/volatile/sites/30/2017/01/Bunch-c
<input type="checkbox"/>	8	Watermelon	1	VEGETERIAN	×	https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSCR2eBUKsjuLAI
<input type="checkbox"/>	9	peper	1k	VEGETERIAN	×	https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQqkmFQ_QPGU3
<input type="checkbox"/>	10	Tomato	1k	VEGETERIAN	×	https://www.fervalle.com/wp-content/uploads/2022/07/580b57fcd9996e24bc
<input type="checkbox"/>	11	Potato	1k	VEGETERIAN	×	https://www.simplotfoods.com/_next/image?url=https%3A%2F%2Fimages.cPotatoes.jpg%3Ffm%3Dwebp&w=1920&q=75
<input type="checkbox"/>	12	Veal	1k	NON_VEGETERIAN	×	https://dokan.ps/wp-content/uploads/2020/12/%D9%84%D8%AD%D9%85%
<input type="checkbox"/>	13	Lamb meat	1k	NON_VEGETERIAN	×	https://www.lovefoodhatewaste.com/sites/default/files/styles/twitter_card_im
<input type="checkbox"/>	14	koftah	1k	NON_VEGETERIAN	×	https://cdn.salla.sa/vQqYv/dLwym1NuLXJi4mdXpPD7nYhAba6aojs9LQpHv
<input type="checkbox"/>	15	Denis	1k	NON_VEGETERIAN	×	https://fishapp.ae/wp-content/uploads/2024/05/708f250f-8fcb-4c9a-a1f2-33c
<input type="checkbox"/>	16	Salmon	1k	NON_VEGETERIAN	×	https://static.webteb.net/images/content/tbl_articles_article_18677_9853ac2
<input type="checkbox"/>	17	tona	1	NON_VEGETERIAN	×	https://bshra.com/filestorage/633d42319e4ae.jpg
<input type="checkbox"/>	18	chicken	1k	NON_VEGETERIAN	×	https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcT4W66Xd7ZcKwit

☰ Categories

☰ Items

☰ Recipes

 EDIT  DELETE

Id

8

Name

Watermelon

Description

1


Type

VEGETERIAN

Lactose

×

Color

 #cea9a9

Image



Category

Fruits

- Categories
- Items
- Recipes

+ CREATE ↓ EXPORT

<input type="checkbox"/>	Id ↑	Name	Description
<input type="checkbox"/>	3	chicken tray	chicken and potato and onion
<input type="checkbox"/>	4	mlokheh	mlokheh and rice and chicken
<input type="checkbox"/>	5	watermelon jouce	watermelon ,water
<input type="checkbox"/>	6	Apple juice	apple and water in mixer
<input type="checkbox"/>	7	koftah tray	koftah in tray with vegetables
<input type="checkbox"/>	8	Denis tray	Denis tray with vegetables
<input type="checkbox"/>	9	Easy breakfast	strawberry jam with toast bread
<input type="checkbox"/>	13	Bean	bean with meat
<input type="checkbox"/>	14	fettuccine alfredo	fettuccine with cream and chicken
<input type="checkbox"/>	15	Lazania	pasta with vegetable

- Categories
- Items
- Recipes

 EDIT  DELETE

Id

14

Name

fettuccine alfredo

Description

fettuccine with cream and chicken

Image



Items

<input type="checkbox"/>	Item ID	Name	Quantity
<input type="checkbox"/>	30	fototshini pasta	1
<input type="checkbox"/>	18	chicken	1
<input type="checkbox"/>	24	Yellow cheese	1
<input type="checkbox"/>	27	cream	1

Categories

Items

Recipes

Name
salmon pasta

Description
salmon with cream with pasta

Image
<https://foxeslovelemons.co>

Items

Item
cream

Quantity
1

Item

Categories

Items

Recipes

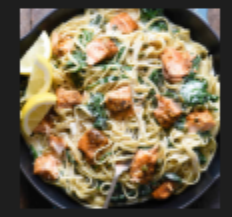
+ CREATE ↓ EXPORT

<input type="checkbox"/>	Id ↑	Name	Description
<input type="checkbox"/>	3	chicken tray	chicken and potato and onion
<input type="checkbox"/>	4	mlokheh	mlokheh and rice and chicken
<input type="checkbox"/>	5	watermelon jouce	watermelon ,water
<input type="checkbox"/>	6	Apple juice	apple and water in mixer
<input type="checkbox"/>	7	koftah tray	koftah in tray with vegetables
<input type="checkbox"/>	8	Denis tray	Denis tray with vegetables
<input type="checkbox"/>	9	Easy breakfast	strawberry jam with toast bread
<input type="checkbox"/>	13	Bean	bean with meat
<input type="checkbox"/>	14	fettuccine alfredo	fettuccine with cream and chicken
<input type="checkbox"/>	15	Lazania	pasta with vegetable
<input type="checkbox"/>	16	tona sandwish	tona sandwich in bread with vegetable
<input type="checkbox"/>	17	chocolate crepe	crepe with chocolate
<input type="checkbox"/>	18	salmon pasta	salmon with cream with pasta

Id
18

Name
salmon pasta

Description
salmon with cream with pasta

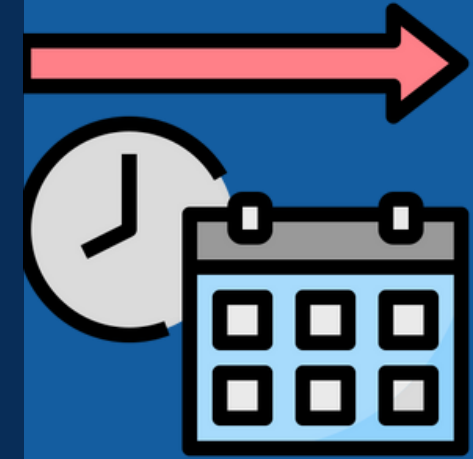
Image


Items

<input type="checkbox"/>	Item ID	Name
<input type="checkbox"/>	27	cream
<input type="checkbox"/>	32	pasta
<input type="checkbox"/>	16	Salmon

Element cr

SMARTFRIDGE: THE FUTURE OF INVENTORY MANAGEMENT



1-Increased Convenience

by adding QRcode to add item.

2-Enhanced Sustainability

the app give a tips to save foods

3-Improved Health & Well-being

*Thank's For
Watching*

