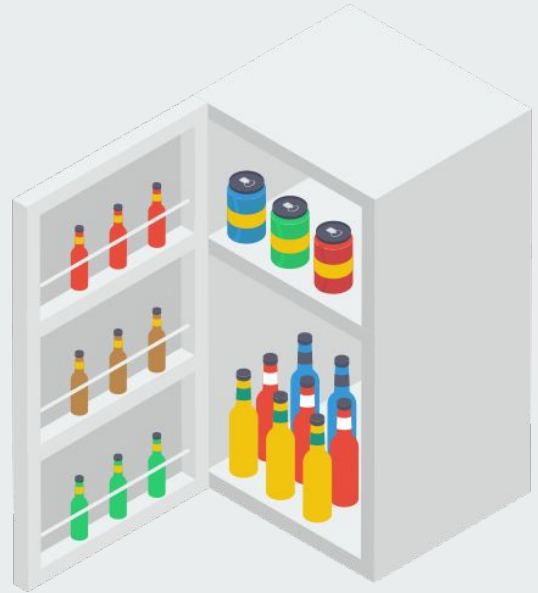




# Fridge Stalker

The Stockers:  
Tanner, Umar, Yun, and Zeb





# Why?

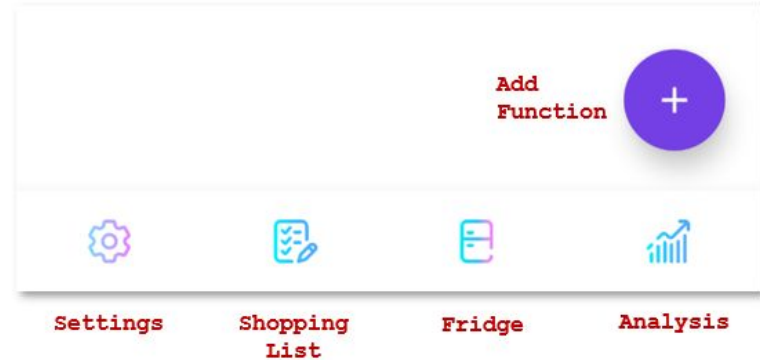
- Who doesn't need to keep track of their food inventory
- Plan ahead - know when you need more groceries
- Be more organized, never lose track of food

Yes. We're not the first to come up with this idea, but ours is different.



# MultiUser-Friendly

- Easy Navigation
- Add other users to your fridge
- Local & Remote Databases
  - Real Life Scenarios



# The Fridge



- Track age of items
- Add, update & delete
- Sync with remote database
- Search for items



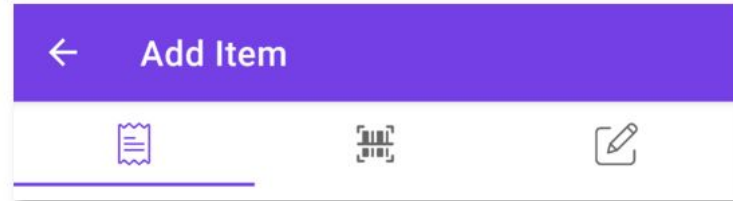
Sync with  
Remote database



# Item Addition

Where our app stands out from the rest.

- Receipt
- Barcode
- Manual



# Receipt Scanning



## Receipt

Scan a receipt



## Asprise/receipt-ocr

Send image to API and  
parse return values



## Edit Entries

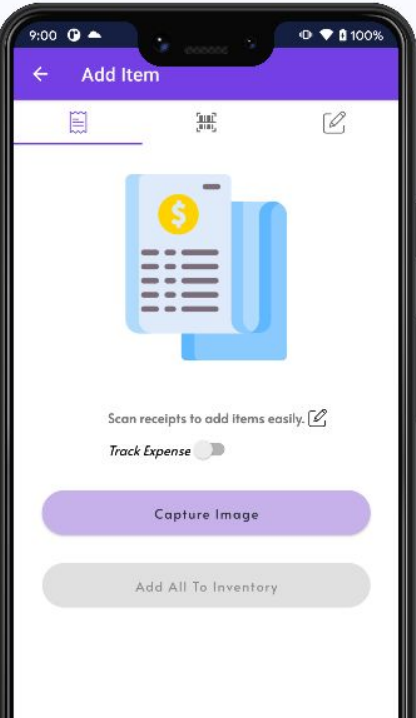
Change detected  
items before storing  
(optional)



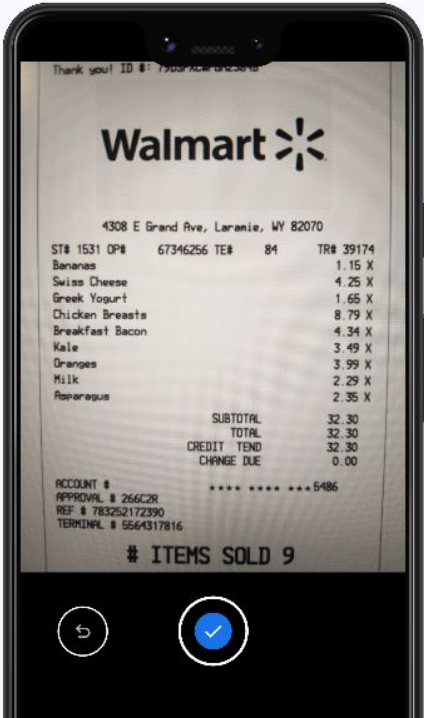
## Database

Items are added into  
database.

Scan receipts to add items easily



Text recognition camera



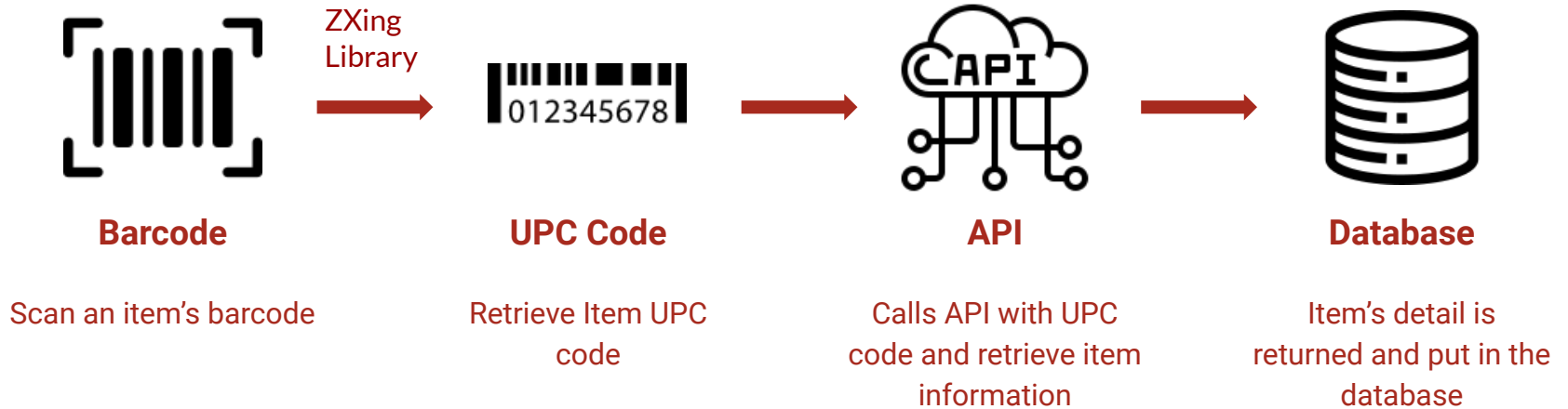
Accurate results



Add all to inventory at once

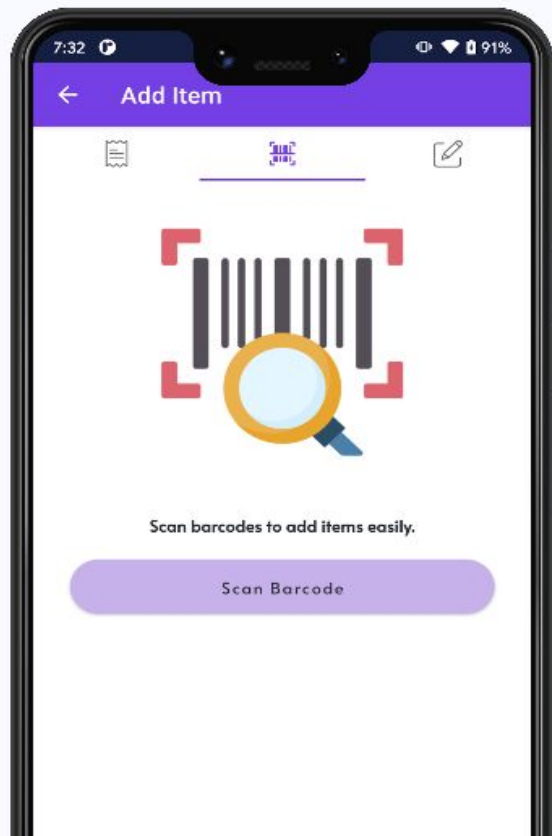


# Barcode Scanning





Scan barcode to add an item



Barcode recognition camera



Item is added to inventory



# Manual Addition



## Manual Entry

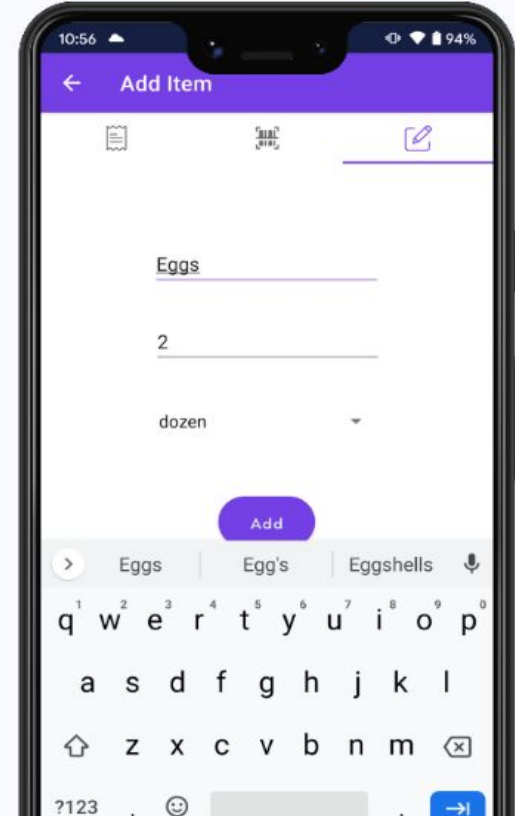
Enter Item Details



## Database

Item is added into  
database.

Add items manually



# Item Modification

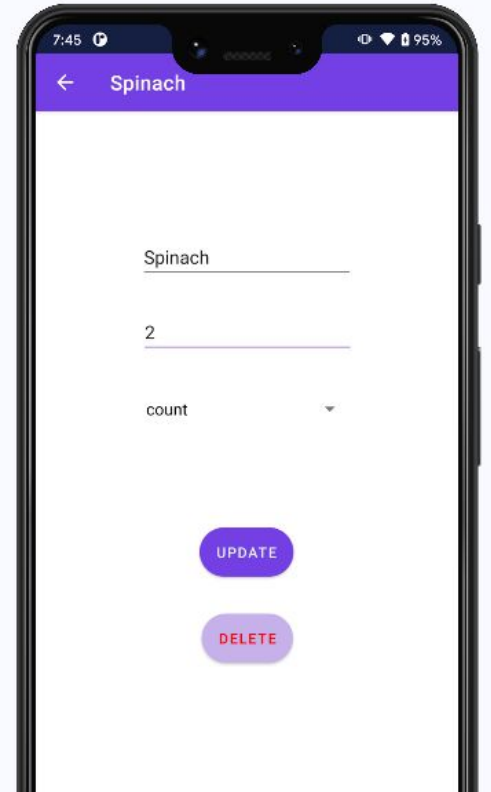
Delete wasted item



Delete consumed item

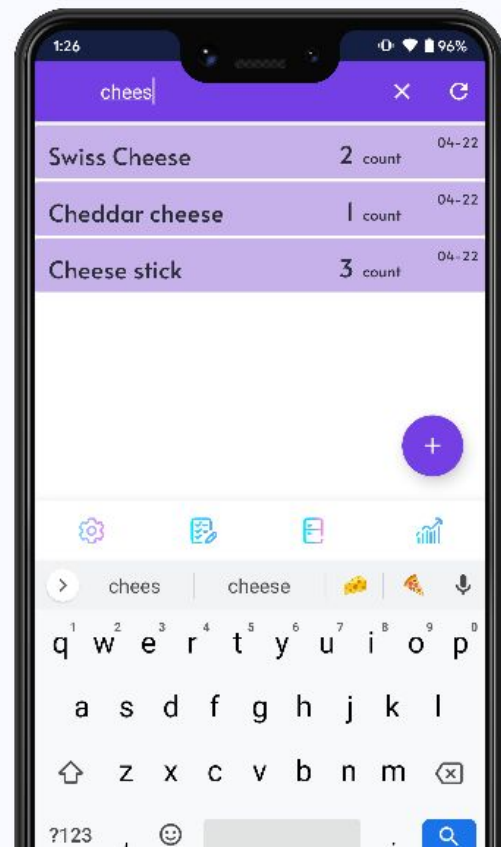
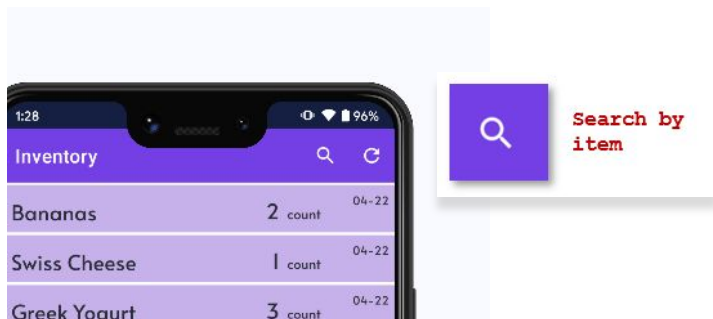


Delete/Update item



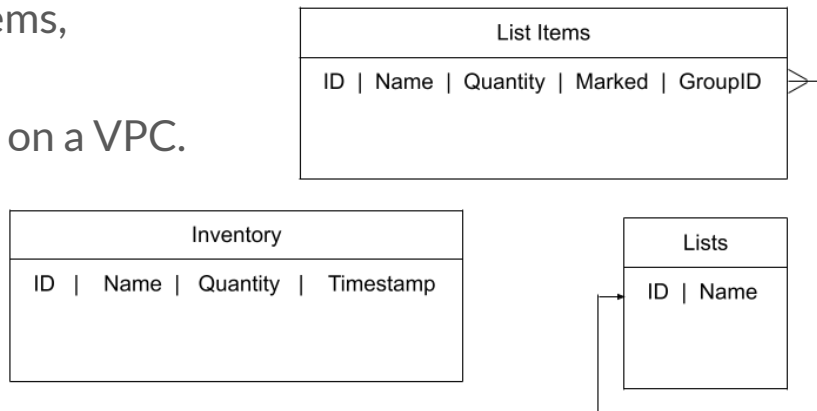
## Search Items

- Search items by name
- Filter results in real-time as user types



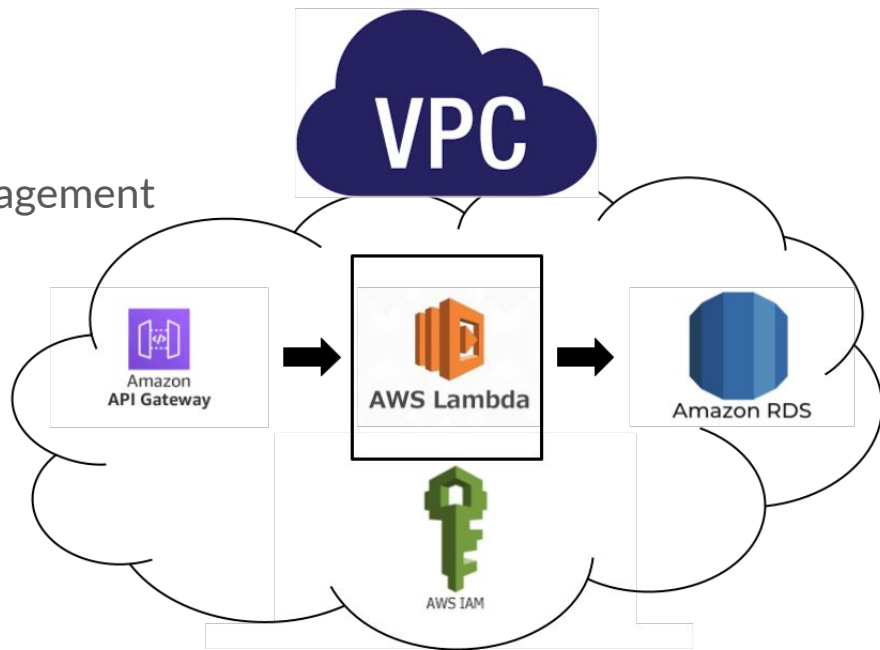
# Database

- Started with local database and then added a remote one for development and offline purposes.
- Local database runs SQLite and remote runs Postgres.
- Stores inventory items, shopping list items, and shopping lists.
- Remote database runs on Amazon RDS on a VPC.



# Database API

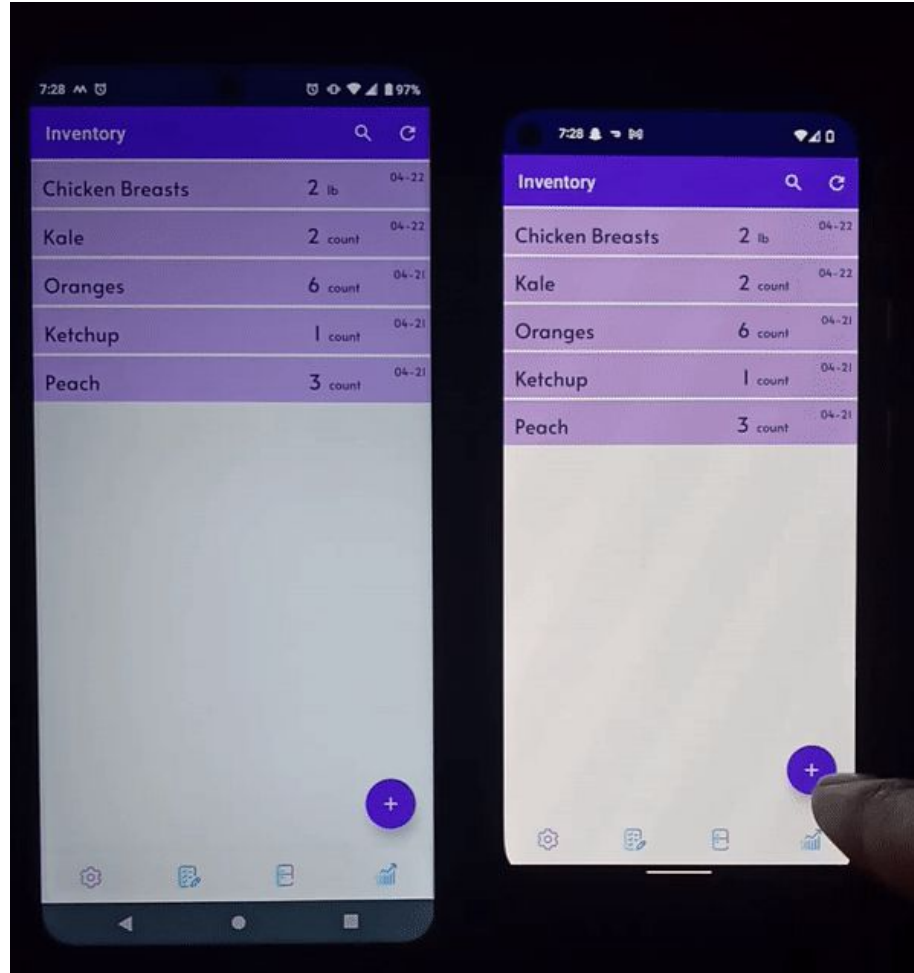
- Uses AWS Lambda for computing
- Uses AWS API-Gateway for the call management
- Uses IAM Roles for permissions
- Lambda sends SQL queries over VPC
- Lambda is triggered by API-Gateway





## Database API (cont.)

- Query the API over http with different routes and tested with postman
- Written with SQL-injection prevention in Python
- Max row limit
- Used okhttp library to query in java





# Shopping Lists



- Create several lists
- Items and quantities
- Check off items

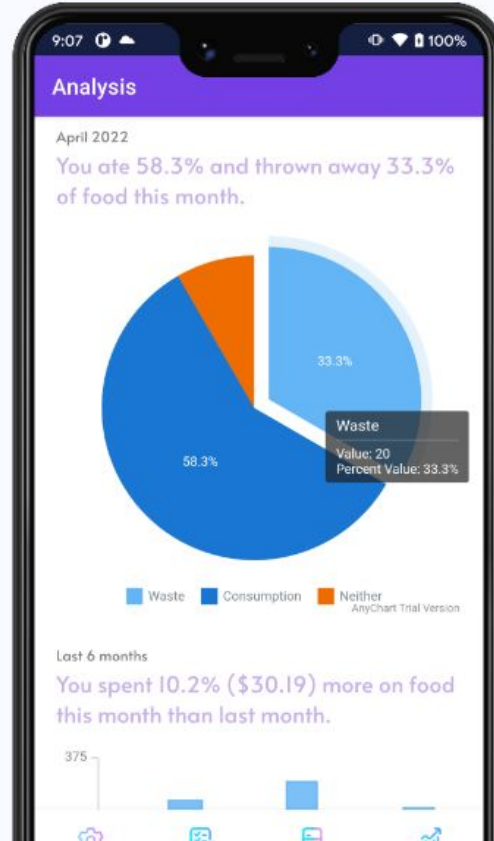


# Analysis



Interpret data in graphs and charts:

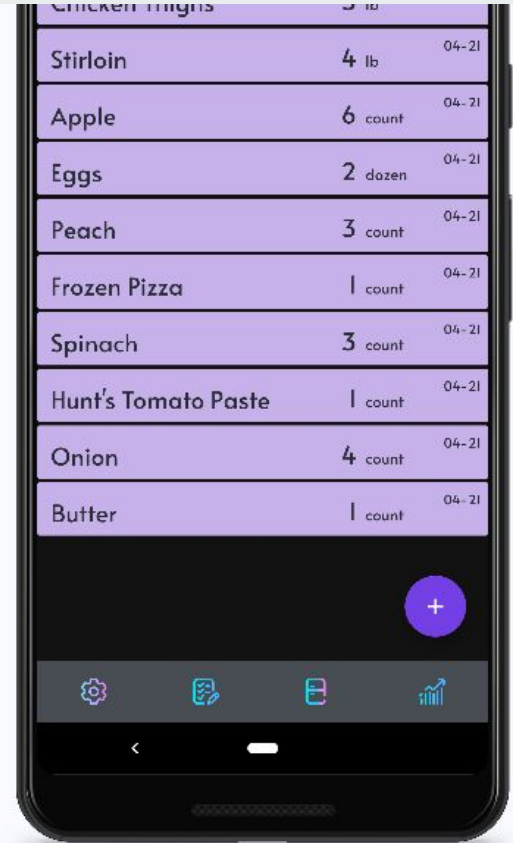
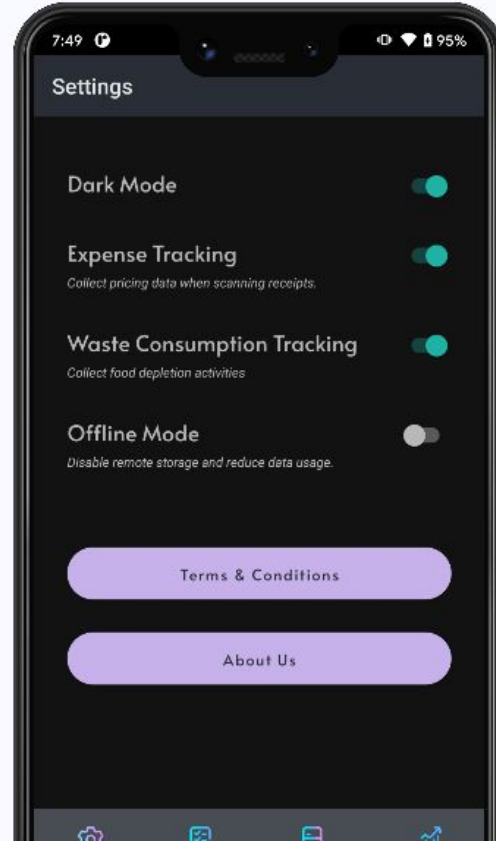
- Consumption vs. Waste
- Expenditures



# Settings



- **UI preference**
  - Dark Mode Theme
- **Privacy/Data settings**
  - Expenditures Tracking
  - Waste Tracking
  - Offline mode
- **Terms & Conditions**
- **About Us**





## Future Iterations

- Duplicate proof inventory
- Add aliases to receipt items
- Differentiate between food, and non-food items on receipts
- Add recipes
- More detailed analytics

