Demo Sample

Login Functionality

1.User taps the Google Sign-In button.
They choose a Google account from the available options on their device.

2.The app connects the chosen Google account to Firebase.
This securely authenticates the user and creates a session.

3.If successful, the user is taken to the home screen.
Their name and profile picture are displayed using their Google account info.

4.The session stays active.
The app remembers the user until they choose to log out.

Sort/Filter Functionality

1. **User taps the sort/filter button**
   A dialog appears offering multiple actions: sort by name, sort by expiry, filter by name, or clear all filters.
2. **Sorting options**
   Sort by name arranges the grocery list alphabetically.
   Sort by expiry organizes items by their expiration date, soonest to latest.
3. **Filtering option**
   Filter by name lets the user enter a keyword.
   Only items whose names contain that keyword are shown.
4. **Clear filters**
   This restores the full original list, removing any applied sorting or filtering.
5. **User sees an updated list**
   The list refreshes in real-time to reflect the selected sort or filter choice.

User Settings Functionality

1. Username Management

Shows the user's name from the cloud or saved preferences.
Let's users tap and update their name, saving it both locally and online.

2. Notification Preferences

Users can choose how many days before expiry they want to be notified.
They can also set a preferred daily time for receiving reminders.
A toggle lets them enable or disable notifications entirely.

3. Theme Selection

Users can switch between light and dark mode.
The app updates the appearance immediately and remembers the choice.

4. Item Cleanup

Two options let users remove all used or expired items from their list in one tap.
These cleanups sync directly with the cloud.

5. Logout

A simple logout button signs the user out from both Google and Firebase, returning them to the main screen.

Analysis Functionality

1. **Loads usage data from the cloud**
   The app pulls all grocery items saved to the user's account, including their used/unused status a
2. **Displays visual insights**
   A pie chart shows the proportion of used vs unused items.
   A bar chart tracks how many items were used each week, based on expiry dates.
3. **Adapts to light/dark theme**
   The charts automatically adjust colors to match the user's current theme for better readability.
4. **Zoom-in support**
   The pie chart supports pinch-to-zoom for closer inspection on smaller screens.
5. **Smart suggestions**
   Below the charts, the app generates personalized tips based on:
   1. Items frequently expired without use
   2. High or low usage efficiency
   3. Repeatedly forgotten items

Grocery Functionality

1. **Adding an Item**
   Tapping the plus button opens a dialog where users can enter a product name, expiry date, and quantity.
   The expiry field also opens a calendar date picker for easier input.
2. **Smart Scanning**
   Each field (name and expiry) has its own scan button.
   When tapped, the app opens the camera to scan text and fills in the respective field automatically.
   This helps users quickly capture details from packages or receipts.
3. **Saving or Editing**
   Users tap Save to add or update the item in the list.
   If editing an existing item, it pre-fills the fields with current data.
   A Delete option appears for edited items to remove them from the list.
4. **Data Persistence**
   All added items are instantly reflected in the list and stored in Firebase under the user's account.
   The list auto-refreshes when the screen is reloaded or pulled down.