

Fogon Inventory Management System (IMS) – User Manual:

<https://github.com/Landy2233/Fogon-Inventory-Management-System.git>

1. Introduction

The **Fogon Inventory Management System (IMS)** is a mobile application designed to help restaurant staff efficiently manage inventory, track stock usage, submit item requests, and review inventory reports. The system supports two user roles with different permissions:

- **Manager** – Full access to inventory management, including creating, editing, and deleting items; approving or denying requests; viewing notifications; and reviewing weekly and monthly reports.
- **Cook / Employee** – Can view available inventory items, use products to reduce stock, submit inventory requests, view request status, and receive notifications.

This user manual guides you through the installation, deployment, and usage of the application.

2. System Requirements

For Development & Running the App

- Git
- Python 3.10+
- Node.js + npm + npx
- Expo CLI
- Xcode (Mac only, for iOS emulator)
- Expo Go App (mobile)

3. Installation Instructions

3.1 Install Required Tools (First Time Only)

Follow the installation and version-check steps for Git, Python, Node.js, npm, npx, Expo, and Xcode (macOS). Install Expo Go on your mobile phone.

4. Downloading the Project

```
git clone https://github.com/Landy2233/Fogon-Inventory-Management-System.git  
cd Fogon-Inventory-Management-System
```

5. Backend Setup

5.1 Create Virtual Environment

macOS/Linux:

```
python3 -m venv venv  
source venv/bin/activate
```

Windows:

```
python -m venv venv  
venv\bin\activate
```

5.2 Install Dependencies

```
pip install --upgrade pip  
pip install -r requirements.txt
```

5.3 Initialize the Database (First Time Only)

```
flask --app app init-db
```

6. Start the Mobile App (Expo)

Open a new terminal window.

6.1 Install Mobile Dependencies

```
cd FogonIMSMobile  
npm install
```

6.2 Start Expo

```
npx expo start
```

6.3 Open the App

- **iOS Simulator (Mac)** → Press **i**
 - **Expo Go App (iPhone/Android)** → Scan QR code
-

7. Using the App

7.1 Logging In

You will be prompted to:

- **Log in**, or
- **Create an account**

Demo users (manager & cook) are included for testing. You may also create your own manager or cooker account.

If you forget your password, tap **Forgot Password** on the login screen and follow the instructions to reset it.

8. User Roles & Functionality

Cook / Employee

- View available inventory items
- Use products to reduce stock
- Submit inventory requests
- View request status (pending, approved, or denied)
- View notifications for request updates

Manager

- View all inventory items
- Create, edit, and delete stock items
- View all item requests
- Approve or deny inventory requests
- View weekly and monthly inventory reports
- Receive notifications for new requests

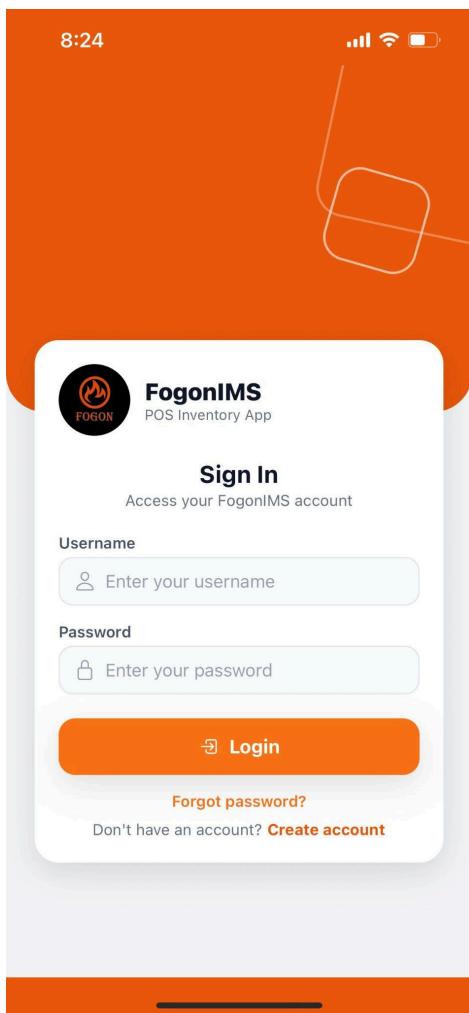
9. Common Workflows

Main Scenario: Cook Requests an Inventory Item

This is the primary workflow of the Fogon Inventory Management System.

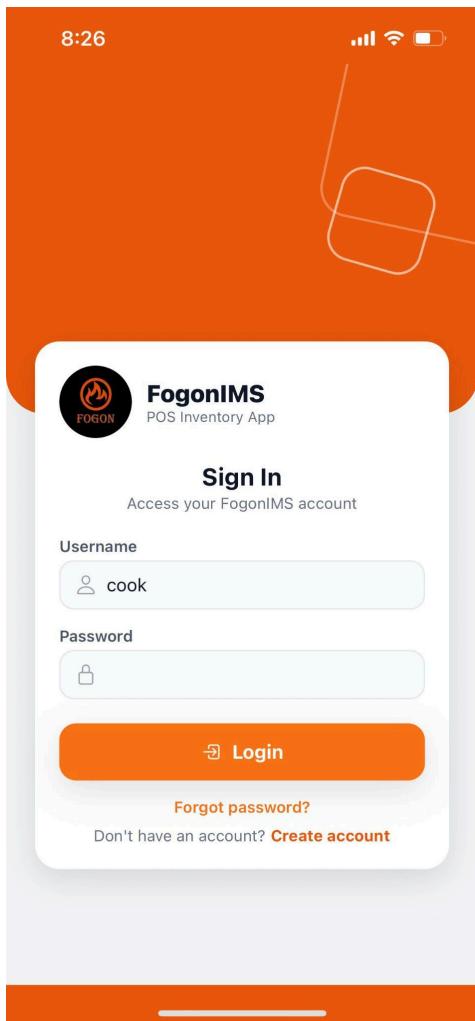
Step 1 — Open the App

Open the Fogon IMS app on your phone through Expo Go or the iOS Simulator.



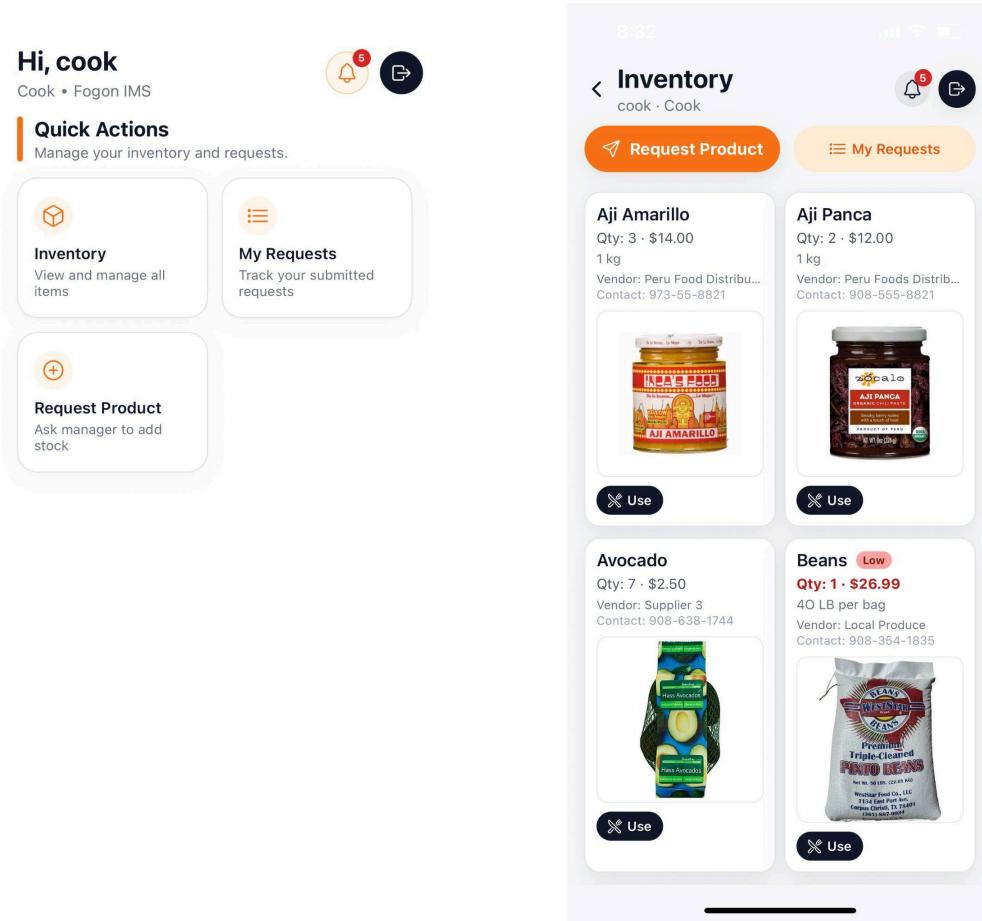
Step 2 — Log in as an Employee/Cook

Enter the cook/demo credentials or your own Employee account.



Step 3 — Navigate to the Inventory Screen

Once logged in, you will be automatically taken to the main dashboard.
Tap **Inventory** to see a list of items.



Step 4 — Use a Product (Reduce Inventory)

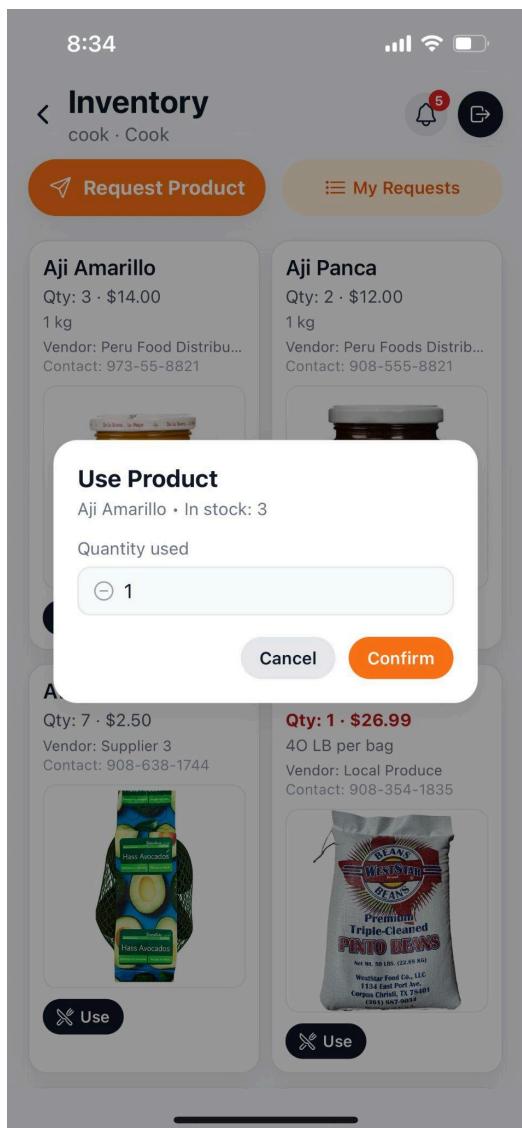
Tap **Use** button on the product you are consuming.

A Use Product window will appear, showing the item name and current stock level.

Type the quantity used directly into the field or use the + / – buttons to adjust the quantity used.

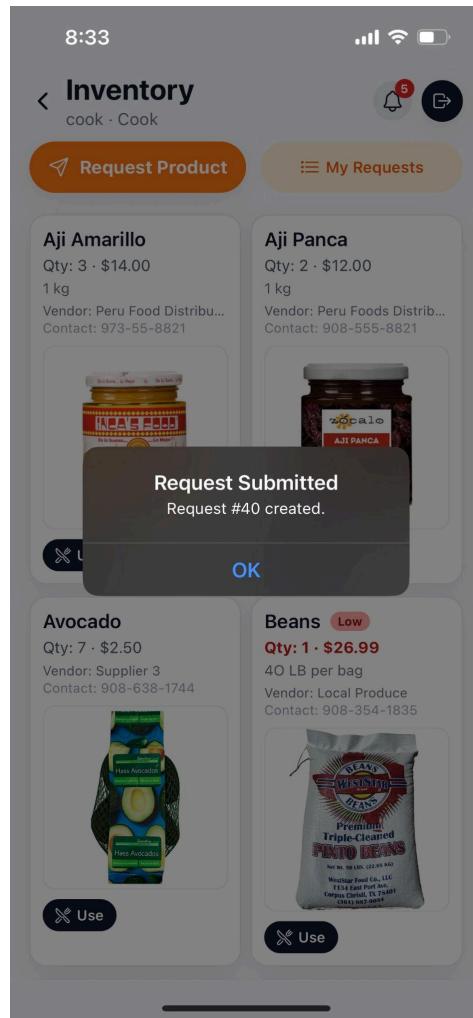
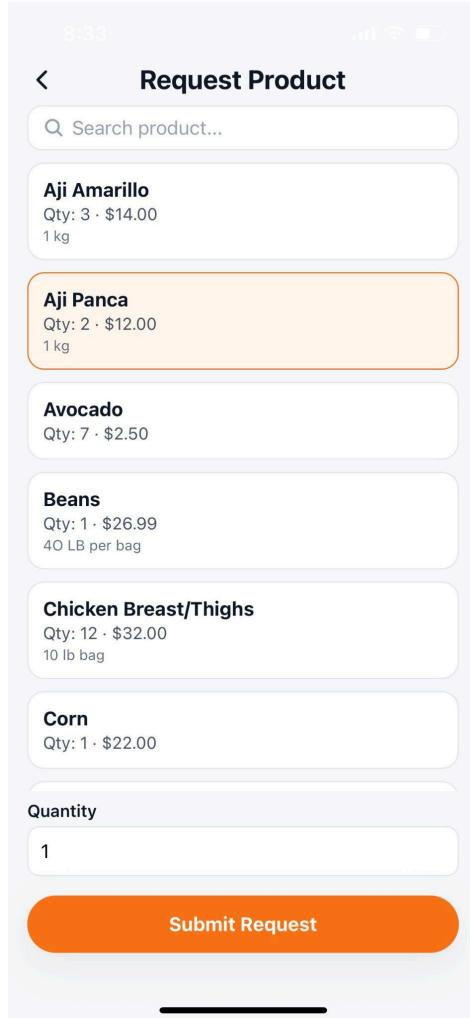
Then tap **Confirm** to deduct it from inventory.

Tap **Cancel** to exit without making changes.



Step 5 — Submit a Request

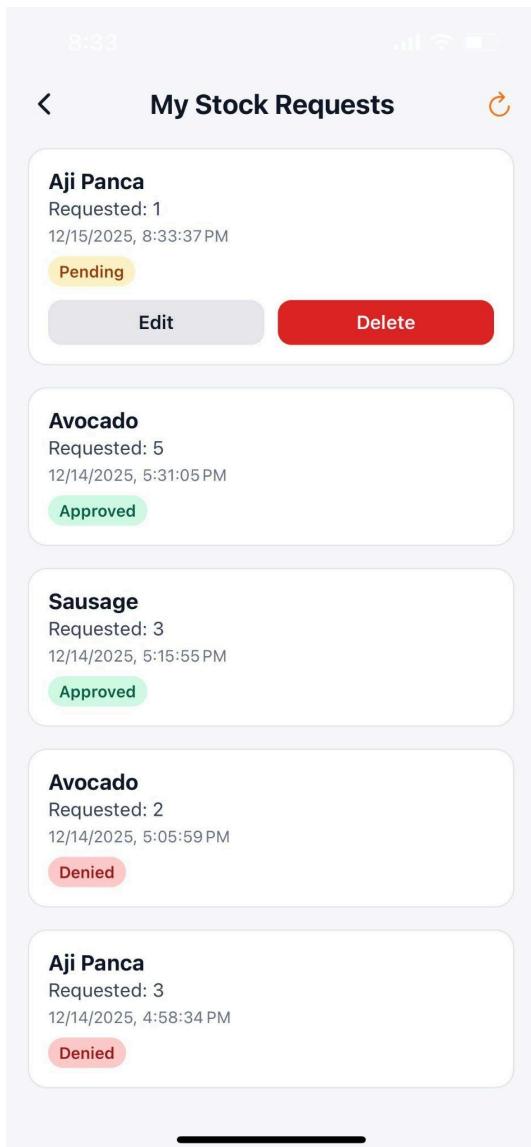
Enter the quantity you need (ex: “5”).
Tap **Submit Request**.



Step 6 — View Request Status

Go to **Requests** tab.

You will see your new request marked as **Pending** until a manager acts on it. You are able to edit or delete a request.

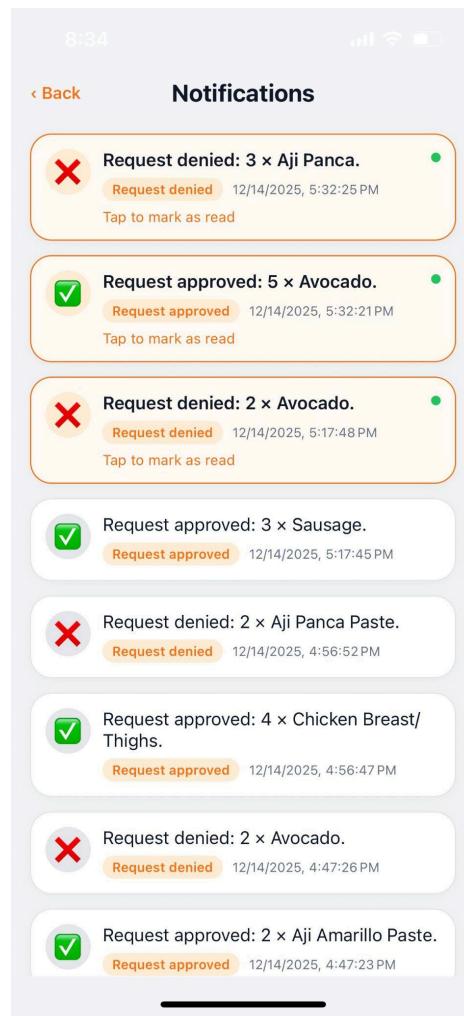


Step 7 — View Notifications

Tap the **Notifications (bell)** icon.

You will see your notifications of approved or denied requests.

Tap the notification to **mark it as read**.

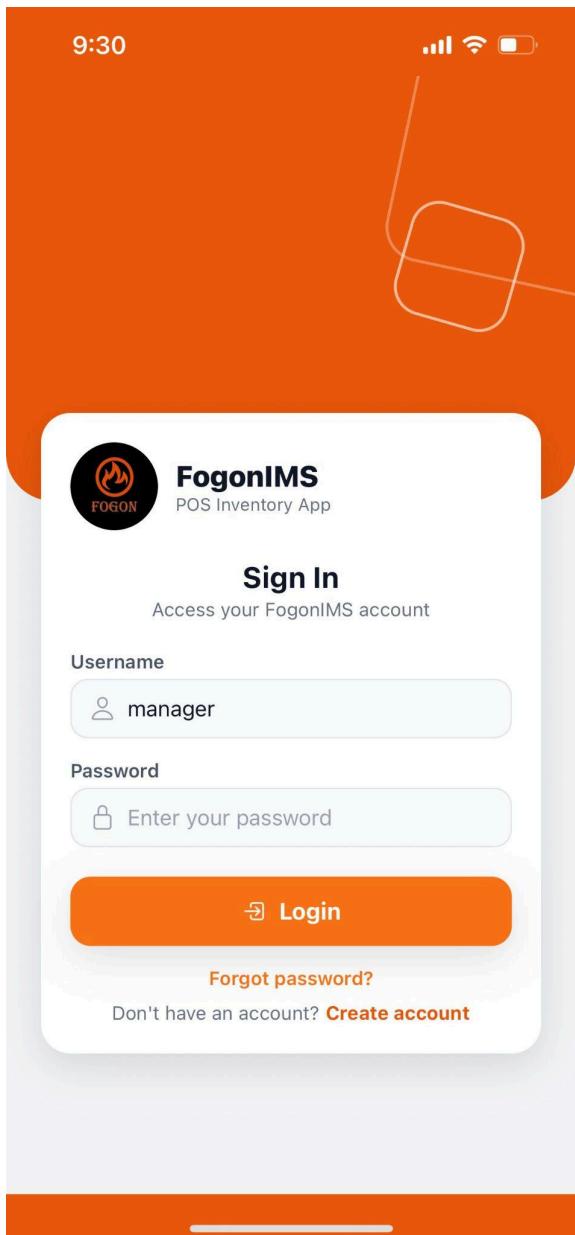


Additional Walkthrough #1

Manager Approves or Denies Requests:

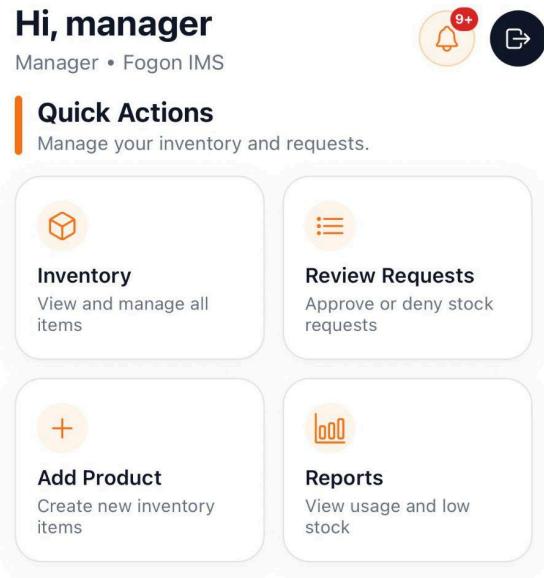
Step 1 — Log In as Manager

Use the manager demo account or your own created manager profile.



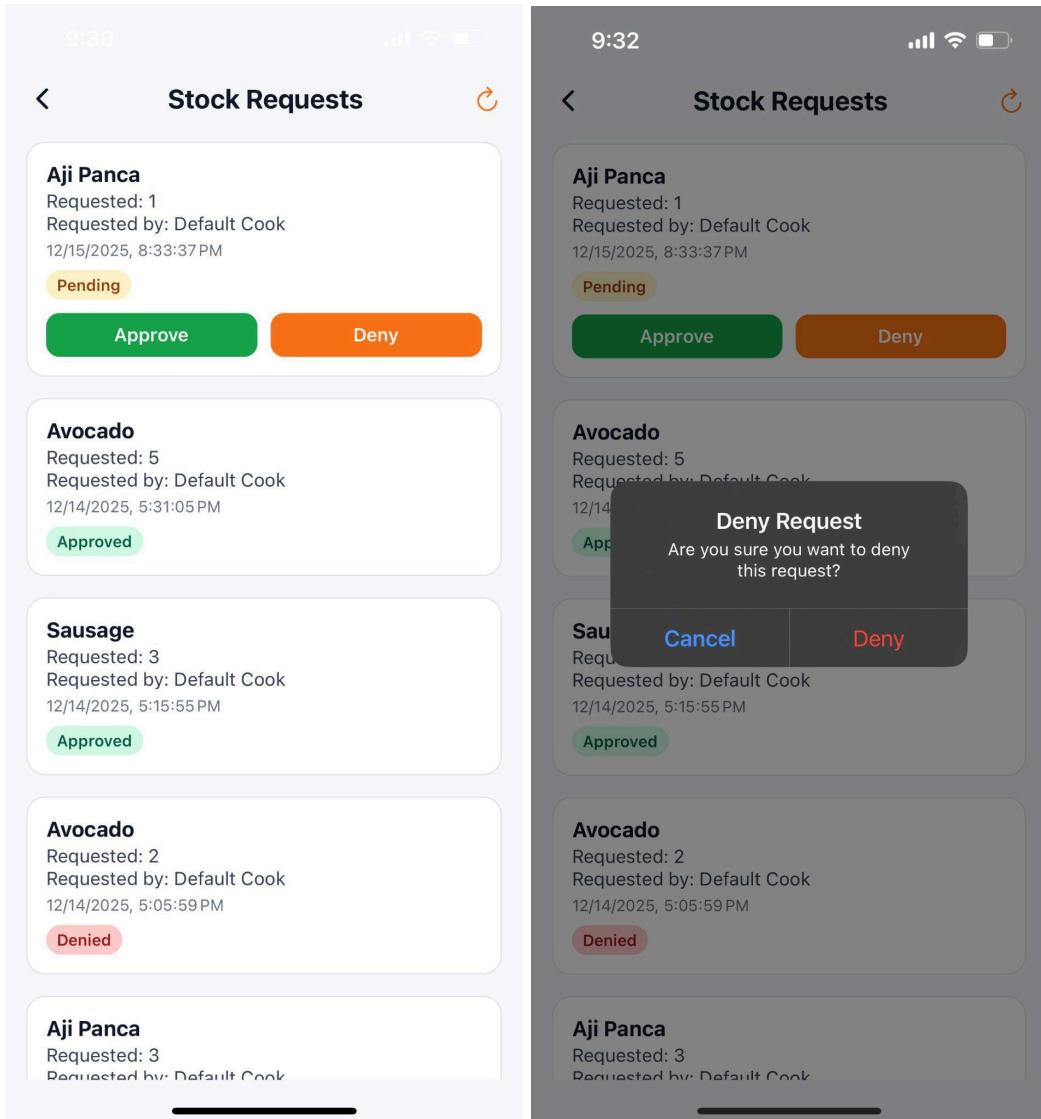
Step 2 — Open the Requests Tab

Tap **Review Requests** in the main menu.



Step 3 — Approve or Deny

Tap **Approve** or **Deny**.



Step 5 — Verify Inventory Update

If approved, go to **Inventory** and confirm that the item's quantity has been updated.

9:33

Inventory
manager · Manager

Requests 9+  

+ Add Product

Aji Amarillo Qty: 2 · \$14.00 1 kg Vendor: Peru Food... Contact: 973-55-8... 	Aji Panca Qty: 3 · \$12.00 1 kg Vendor: Peru Foods... Contact: 908-555-... 
Avocado Qty: 7 · \$2.50 Vendor: Supplier 3 Contact: 908-638-1... 	Beans Low Qty: 1 · \$26.99 40 LB per bag Vendor: Local Produ... Contact: 908-354-1... 
Chicken Brea... Qty: 12 · \$32.00 10 lb bag Vendor: Andes Mea... Contact: 201-555-1... 	Corn Low Qty: 1 · \$22.00 Vendor: Supplier 1 Contact: 90843462... 

Manager CRUD Operations

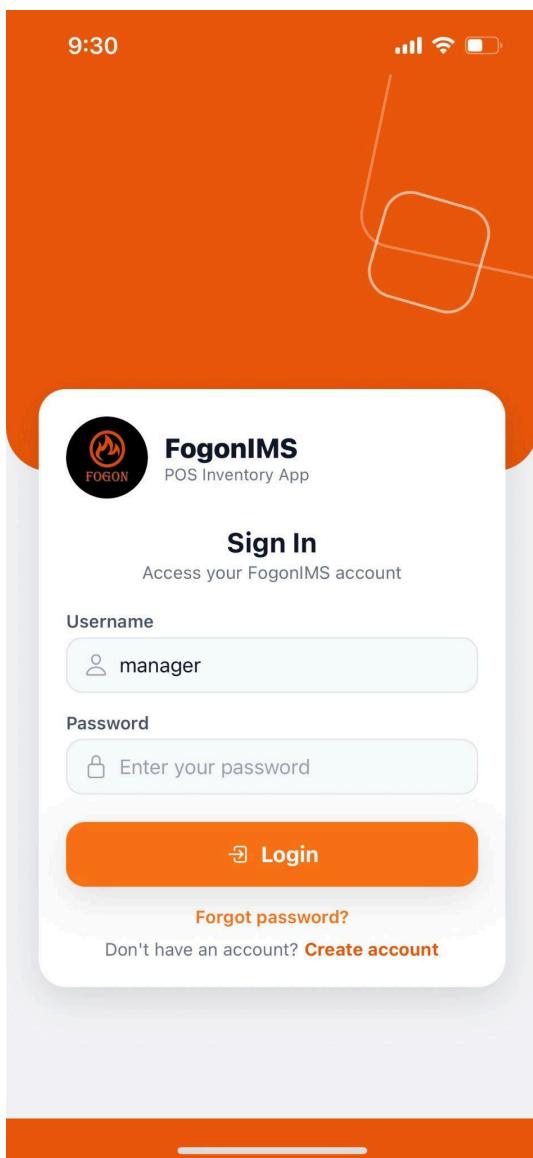
- Add new items to stock
- Update item details (quantity, name, category)
- Remove items from stock

Additional Walkthrough #2:

Manager Adds a New Inventory Item:

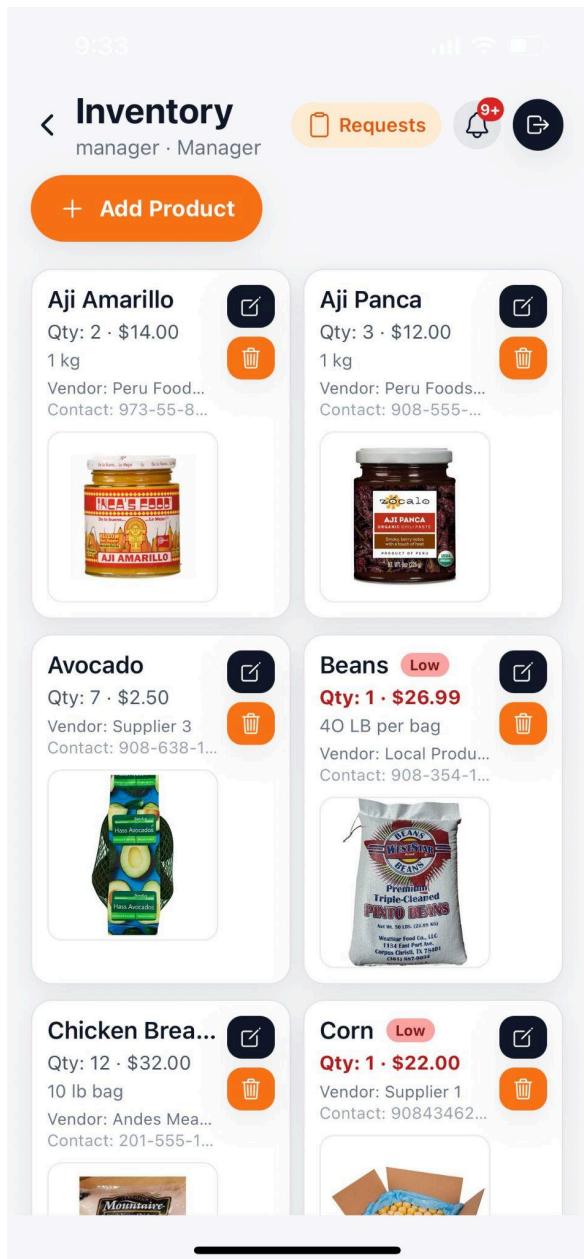
Step 1 — Log In as Manager

Use the manager account.



Step 2 — Open the Inventory Tab

Tap **Inventory** to see the list of products available.



Step 3 — Tap “Add Product”

This opens the New Item form.

The screenshot shows a mobile application interface titled "Add Products" with the subtitle "Create one or multiple items for your inventory." The main section is titled "Product 1".

Product Name: e.g., Avocado

Category: Select category

Quantity: 0 **Price:** 0

Description: Brief details about this item...

Vendor Name: e.g., Local Supplier

Vendor Contact: Phone, email, etc.

Image: Pick Image

No image selected

+ Add another product

The form includes a header with the time (9:34) and signal strength, and a footer with a black navigation bar.

Step 4 — Enter Item Details

Fill in the fields:

- Product Name
- Category
- Quantity & Price
- Description
- Vendor Name & Contact

The screenshot shows a mobile application interface for adding a new product. The title 'Product 1' is at the top. The form includes fields for Product Name (Sprite), Category (Beverages), Quantity (15), Price (25), Description (1 gallon), Vendor Name (Local Supplier), and Vendor Contact (123-456-7891). There is also an 'Image' section with a 'Pick Image' button and a note that no image has been selected. At the bottom, there are buttons for '+ Add another product' and a large orange 'Save All Products' button.

9:37

Product 1

Product Name

Sprite

Category

Beverages

Quantity

15

Price

25

Description

1 gallon

Vendor Name

Local Supplier

Vendor Contact

123-456-7891

Image

Pick Image

No image selected

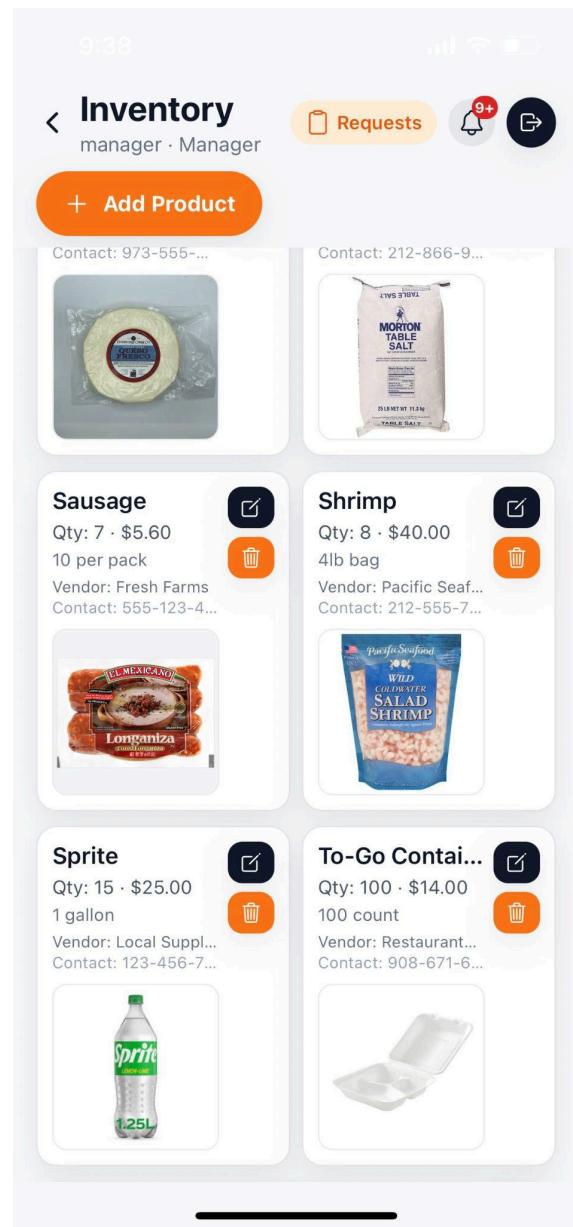
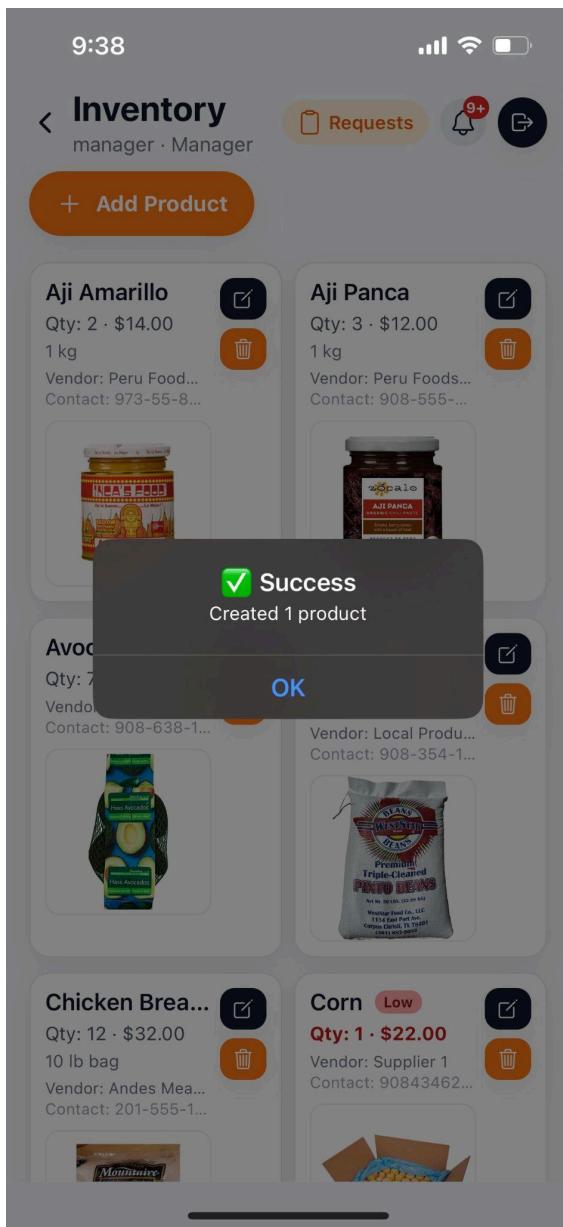
+ Add another product

Save All Products

Step 5 — Save the Item

Tap **Create Item**.

Success confirmation will pop up.



Step 6 — View Weekly/Monthly Reports

Tap the **Reports** section from the menu. Choose **Weekly** or **Monthly** to view inventory summaries and trends for that time period.

9:38

Reports Weekly Monthly

Last updated: 9:38 PM

Overview

High-level snapshot of your current inventory.

Total Products	17	Low Stock	2
View inventory >		View low stock >	
Inventory Value	\$4,290.79		
Approx. total cost of all items currently in stock.			

Top Requested Items

Based on approved stock requests for this week.

1	Avocado	\$25.00
	Requested 10 times	
2	Aji Panca	\$72.00
	Requested 6 times	
3	Corn	\$110.00
	Requested 5 times	

Cost Analysis

Estimated spend from approved requests (qty × price) for this week.

\$367.80
\$275.85
\$183.90
\$91.95

9:38

Reports Weekly Monthly

Last updated: 9:38 PM

Month Year

Nov 2025

Overview

High-level snapshot of your current inventory.

Total Products	17	Low Stock	2
View inventory >		View low stock >	
Inventory Value	\$4,290.79		
Approx. total cost of all items currently in stock.			

Top Requested Items

Based on approved stock requests for Nov 2025.

1	White Rice	\$204.00
	Requested 8 times	
2	Avocado	\$5.00
	Requested 2 times	
3	Green Sauce	\$5.60
	Requested 1 time	

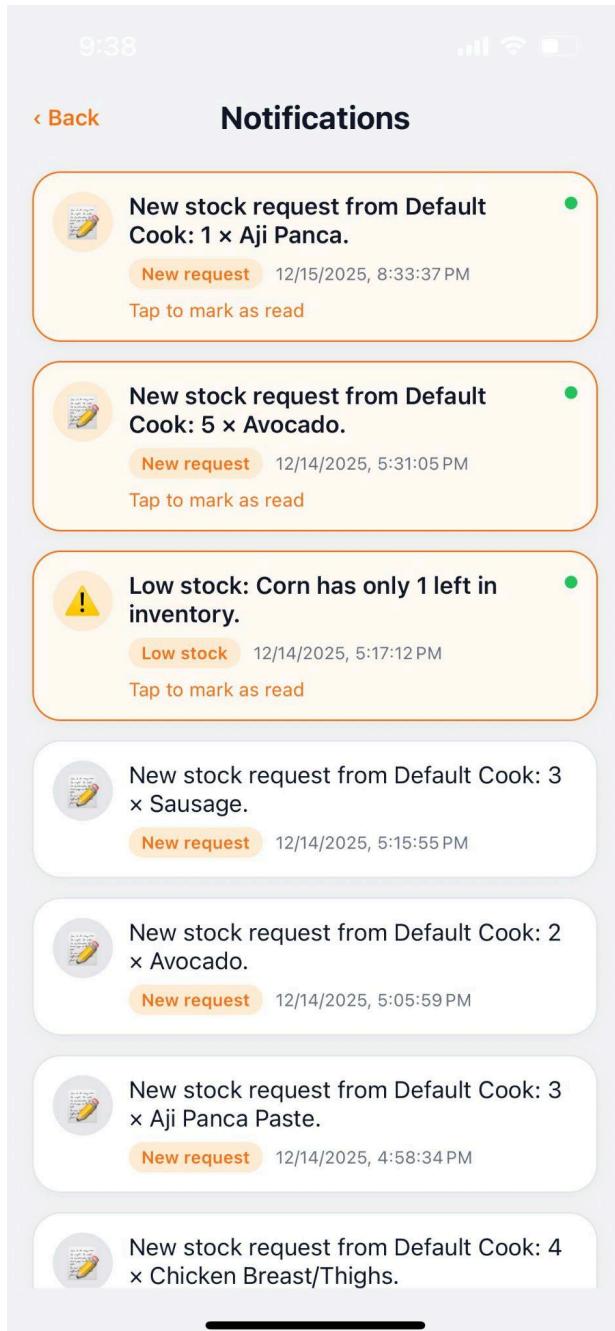
Cost Analysis

Estimated spend from approved requests (qty × price) for Nov 2025.

\$127.50
\$95.63

Step 7 — View Notifications

Tap the **Notifications** (bell) icon. You will see notifications about **approved or denied requests**. Tap a notification to **mark it as read**.



10. Troubleshooting

Expo Go app stuck loading

- Close Expo Go > reopen > rescan QR.
- Restart Expo: `ctrl + c` → `npx expo start`.

Database issues

Reinitialize:

```
flask --app app init-db
```

11. Filing a Bug Report

To report a bug:

1. Go to the GitHub repository.
2. Open the **Issues** tab.
3. Click **New Issue**.
4. Include:
 - Clear description of the bug
 - Steps to reproduce
 - Expected vs actual behavior
 - Screenshots (if helpful)
 - Your device/platform & OS

This ensures maintainers can replicate and resolve the problem efficiently.