

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

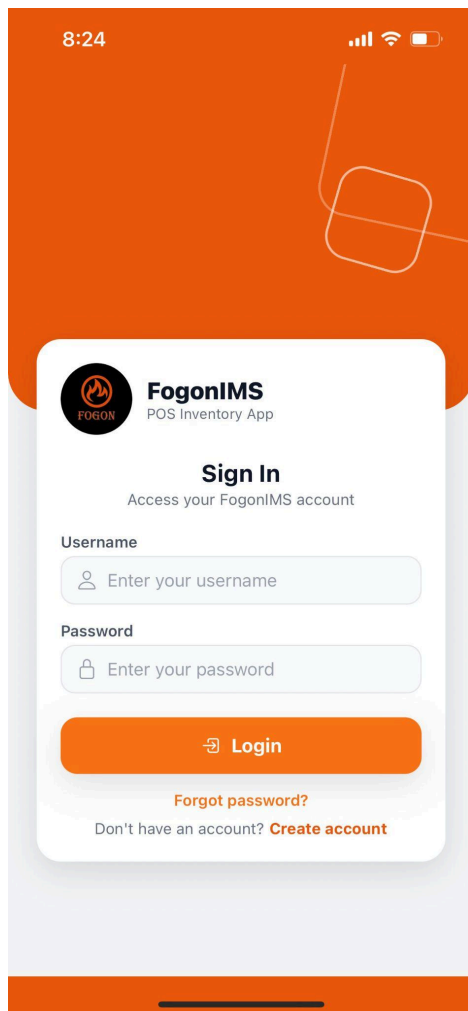
9. Common Workflows

Main Scenario: Cook Requests an Inventory Item

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

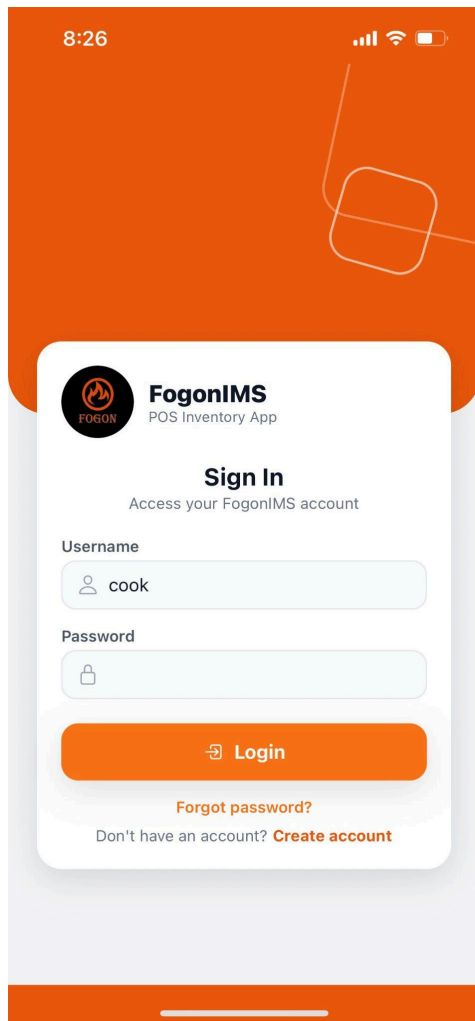
Step 1 — Open the App

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



Step 2 — Log in as an Employee/Cook

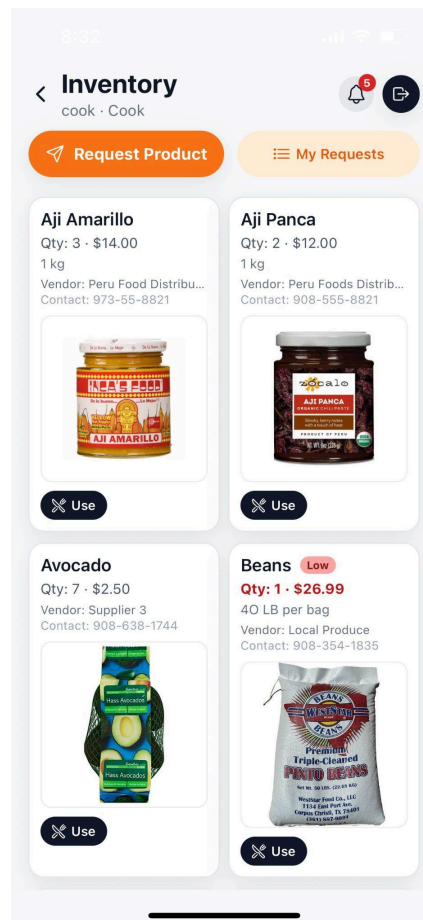
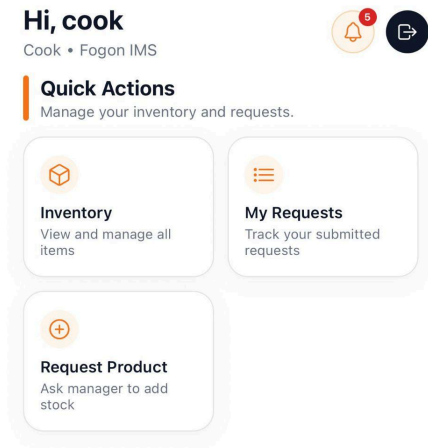
Enter the cook/demo credentials or your own Employee account.



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)

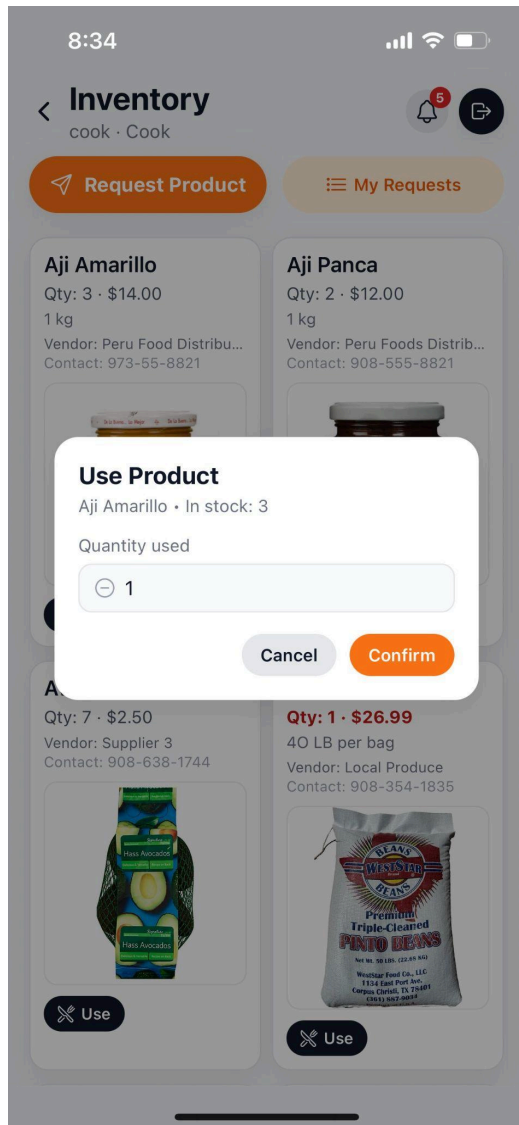
Tap **Use** button on the product you are consuming.

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**.

8:33

< **Request Product**

Search product...

Aji Amarillo
Qty: 3 · \$14.00
1 kg

Aji Panca
Qty: 2 · \$12.00
1 kg

Avocado
Qty: 7 · \$2.50

Beans
Qty: 1 · \$26.99
40 LB per bag

Chicken Breast/Thighs
Qty: 12 · \$32.00
10 lb bag

Corn
Qty: 1 · \$22.00

Quantity

1

Submit Request

8:33

< **Inventory**
cook · Cook

Request Product **My Requests**

Aji Amarillo
Qty: 3 · \$14.00
1 kg
Vendor: Peru Food Distribu...
Contact: 973-55-8821

Aji Panca
Qty: 2 · \$12.00
1 kg
Vendor: Peru Foods Distrib...
Contact: 908-555-8821

Request Submitted
Request #40 created.

Avocado
Qty: 7 · \$2.50
Vendor: Supplier 3
Contact: 908-638-1744

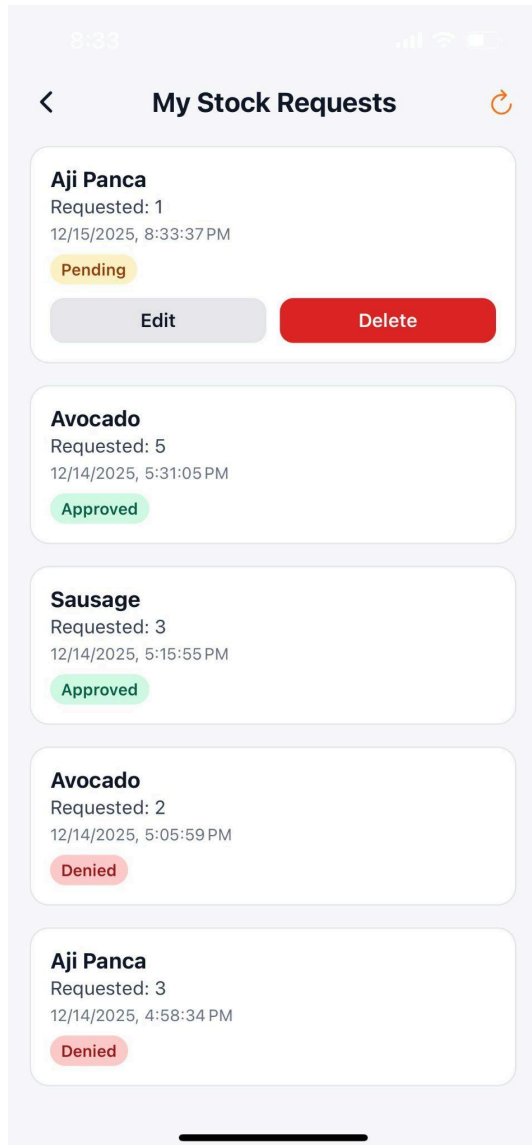
Beans **Low**
Qty: 1 · \$26.99
40 LB per bag
Vendor: Local Produce
Contact: 908-354-1835

Use

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.

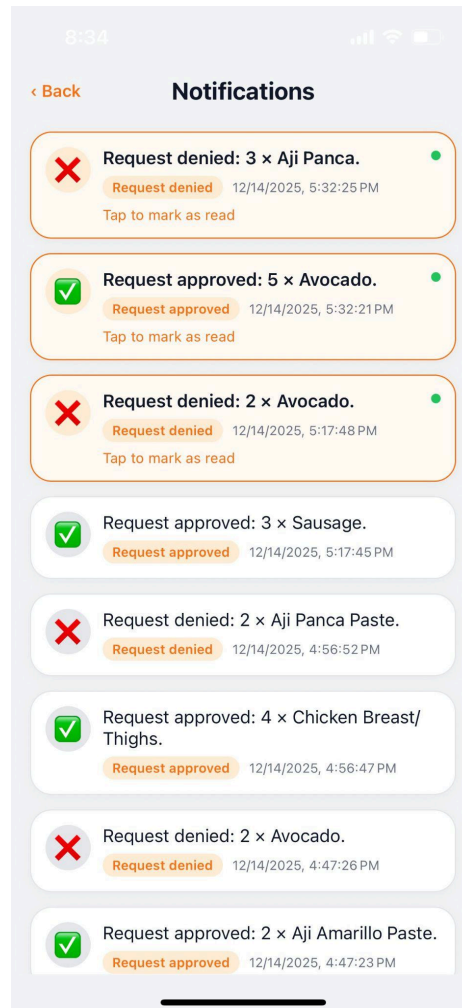
Tap the notification to **mark it as read**.

Hi, cook

Cook • Fogon IMS

Quick Actions

Manage your inventory and requests.

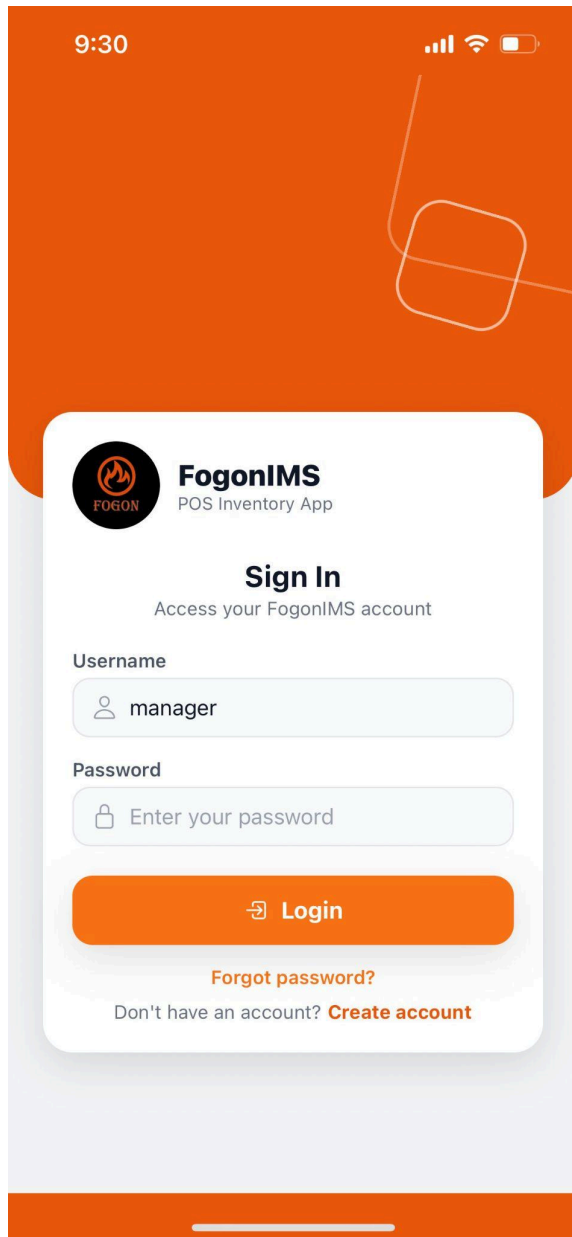


Additional Walkthrough #1

Manager Approves or Denies Requests:

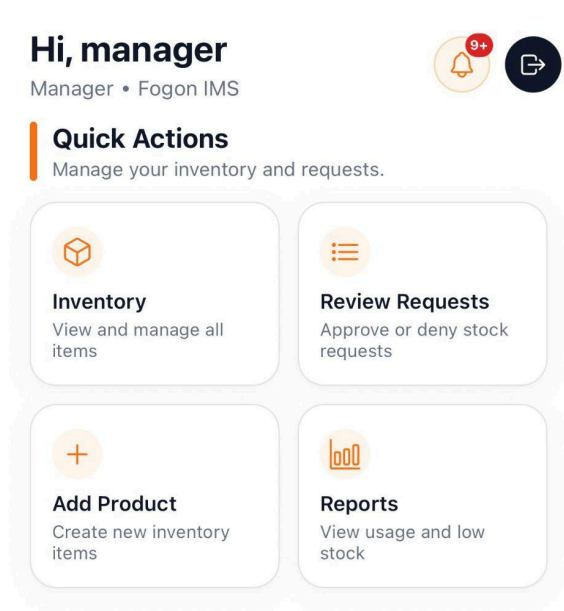
Step 1 — Log In as Manager

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



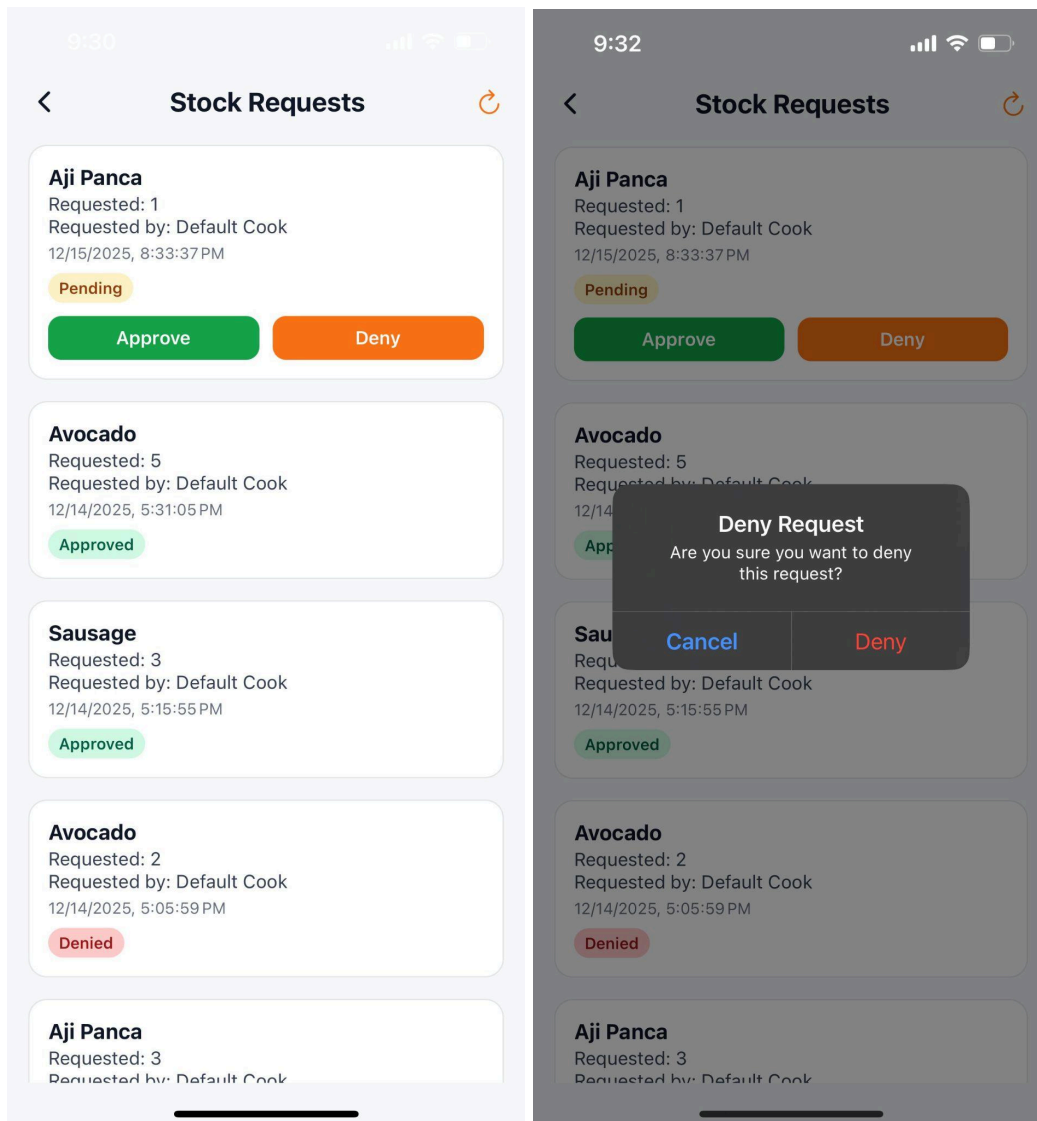
Step 2 — Open the Requests Tab

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



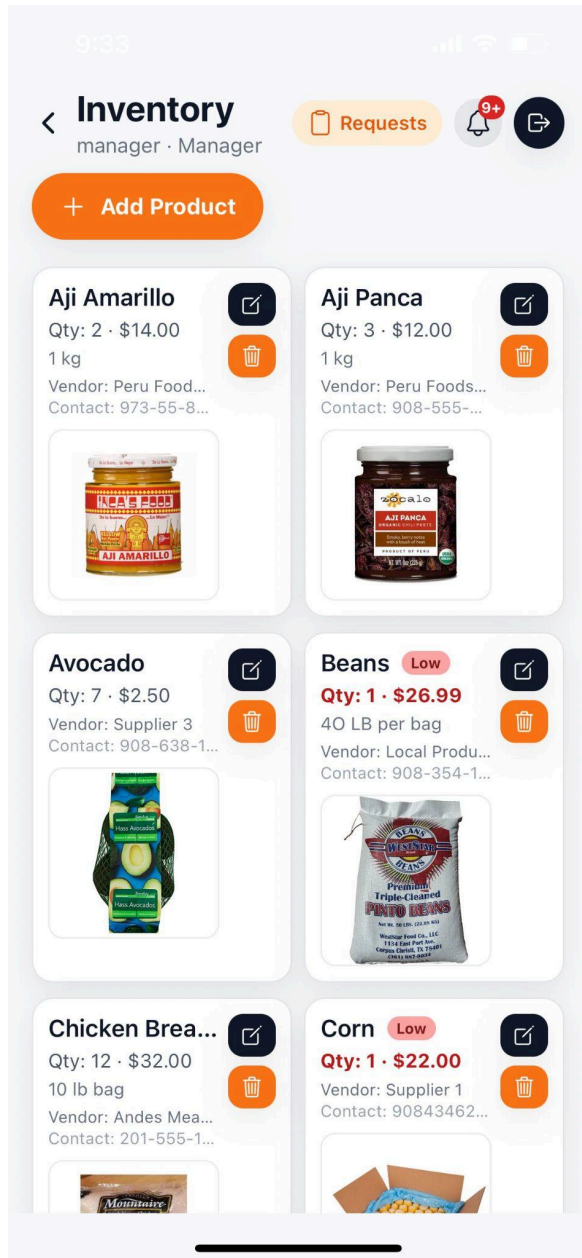
Step 3 — Approve or Deny

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



Step 5 — Verify Inventory Update

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



Manager CRUD Operations

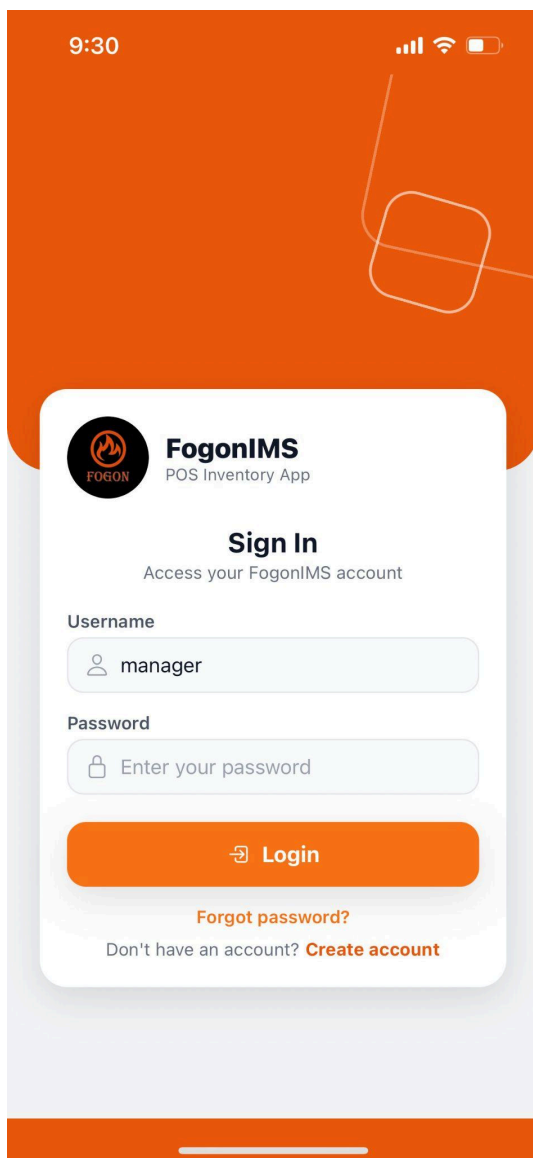
- Add new items to stock
- Update item details (quantity, name, category)
- Remove items from stock

Additional Walkthrough #2:

Manager Adds a New Inventory Item:

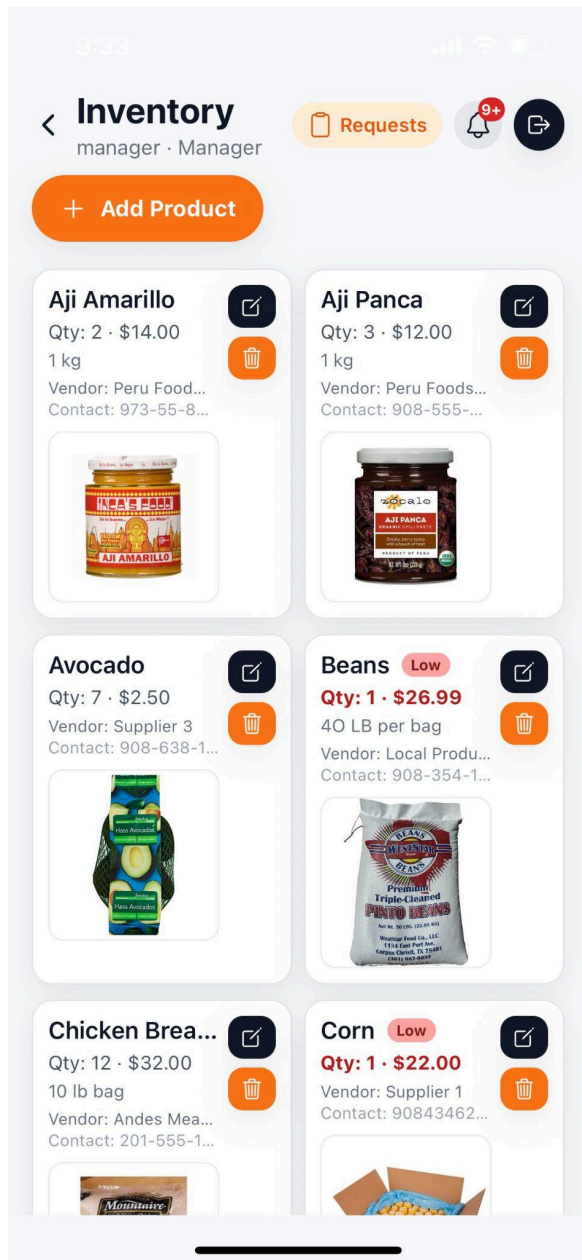
Step 1 — Log In as Manager

Use the manager account.



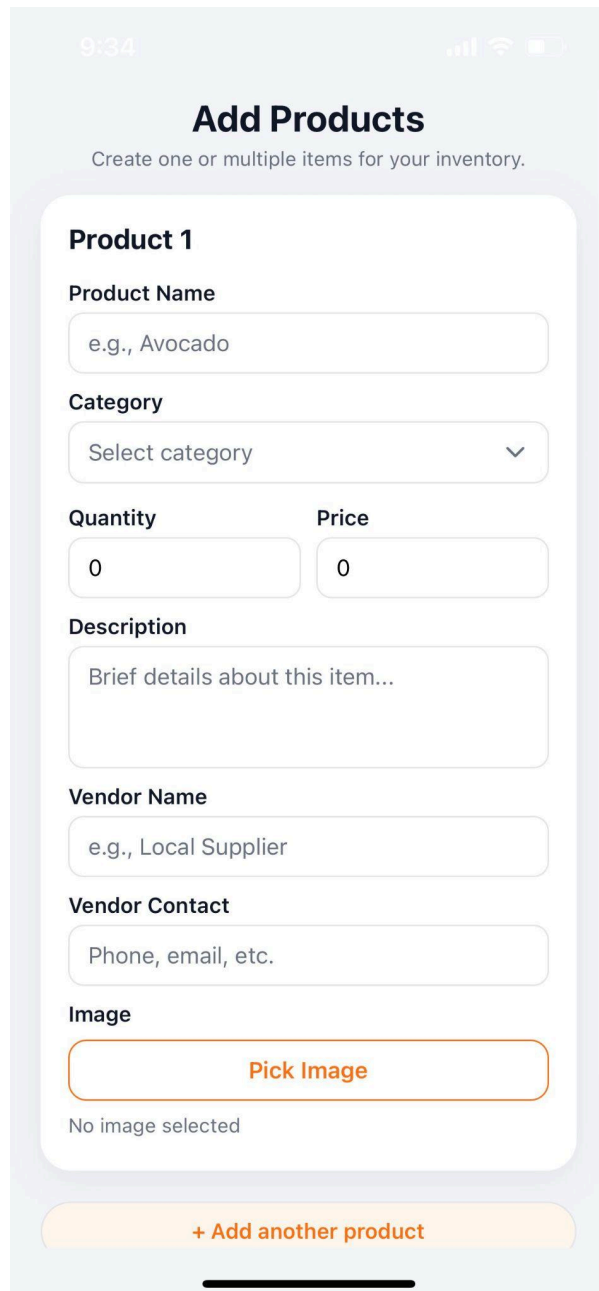
Step 2 — Open the Inventory Tab

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



Step 3 — Tap “Add Product”

This opens the New Item form.



The image shows a mobile application interface for adding products. At the top, the status bar displays the time 9:34 and signal icons. The main heading is 'Add Products' in bold black text, followed by a subtitle 'Create one or multiple items for your inventory.' Below this is a form titled 'Product 1'. The form contains several input fields: 'Product Name' with a placeholder 'e.g., Avocado', 'Category' with a dropdown menu showing 'Select category', 'Quantity' and 'Price' both with a value of '0', 'Description' with a placeholder 'Brief details about this item...', 'Vendor Name' with a placeholder 'e.g., Local Supplier', and 'Vendor Contact' with a placeholder 'Phone, email, etc.'. There is an 'Image' section with a 'Pick Image' button and the text 'No image selected'. At the bottom of the form is a button labeled '+ Add another product'.

9:34

Add Products

Create one or multiple items for your inventory.

Product 1

Product Name

Category

Quantity **Price**

Description

Vendor Name

Vendor Contact

Image

Pick Image

No image selected

+ Add another product

Step 4 — Enter Item Details

Fill in the fields:

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

A mobile application interface for adding a product. The screen shows a form titled "Product 1" with various input fields. The status bar at the top shows the time 9:37 and signal icons. The form fields are: Product Name (text input with "Sprite"), Category (dropdown menu with "Beverages"), Quantity (text input with "15"), Price (text input with "25"), Description (text input with "1 gallon"), Vendor Name (text input with "Local Supplier"), Vendor Contact (text input with "123-456-7891"), and Image (a button labeled "Pick Image" with the text "No image selected" below it). At the bottom, there are two buttons: "+ Add another product" and "Save All Products".

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

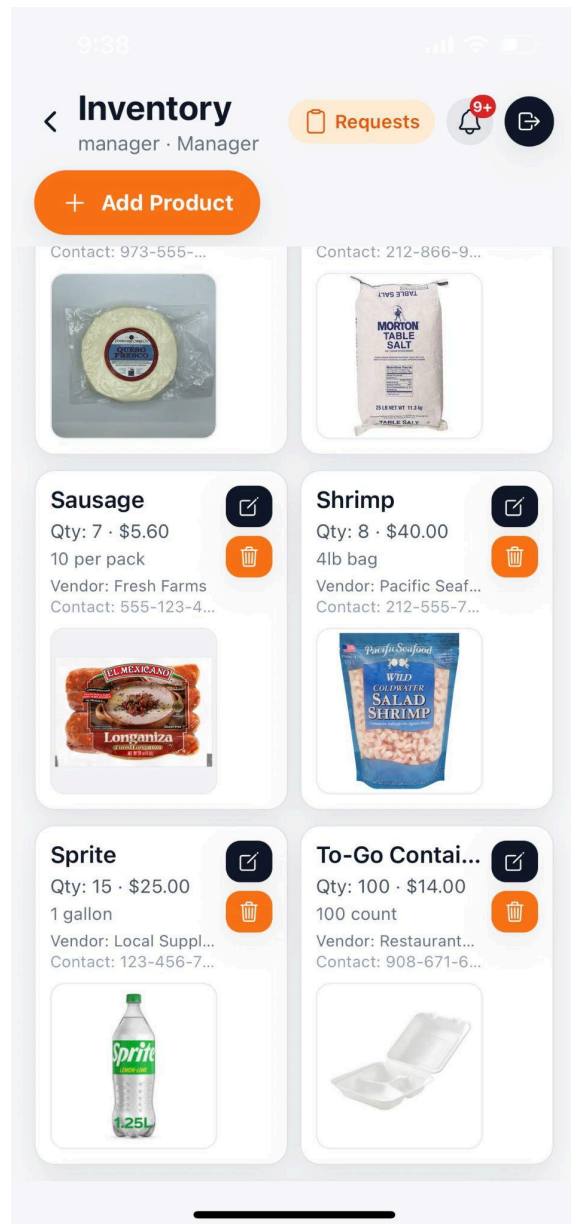
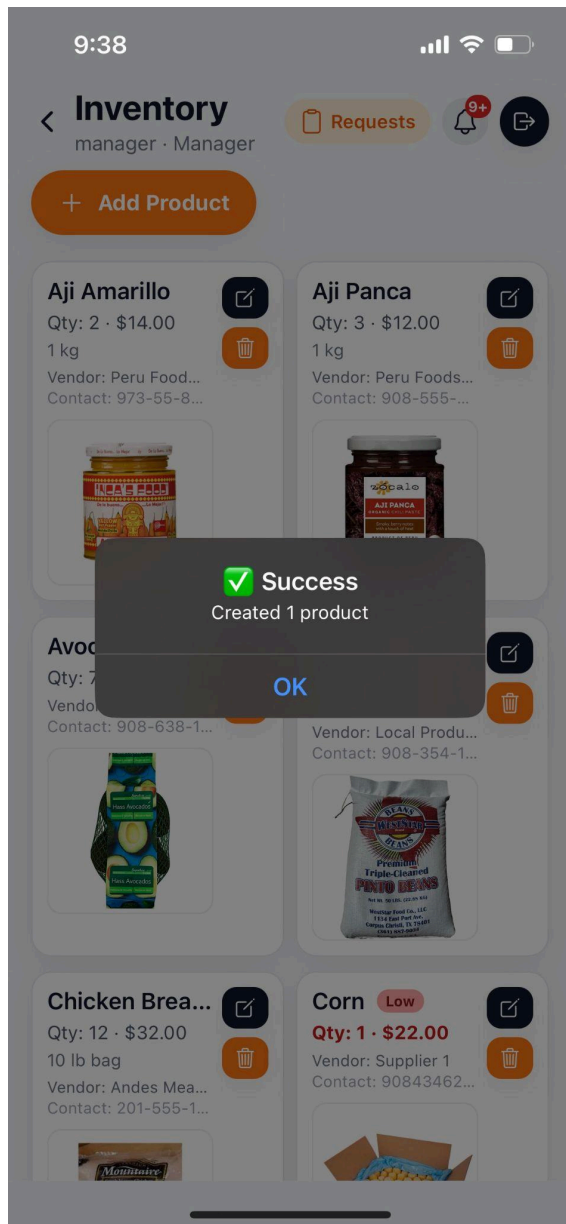
+ Add another product

Save All Products

Step 5 — Save the Item

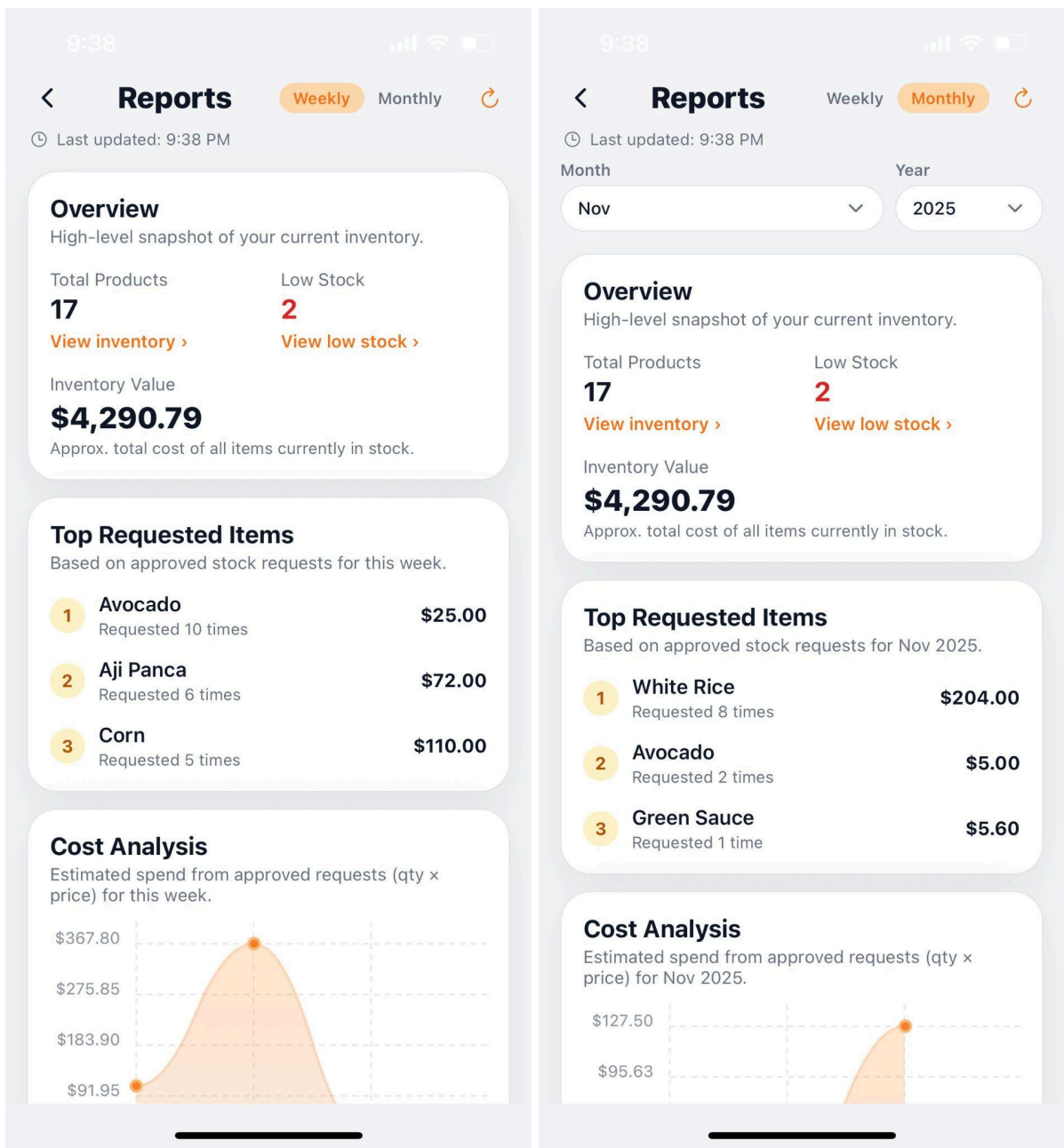
Tap **Create Item**.

Success confirmation will pop up.



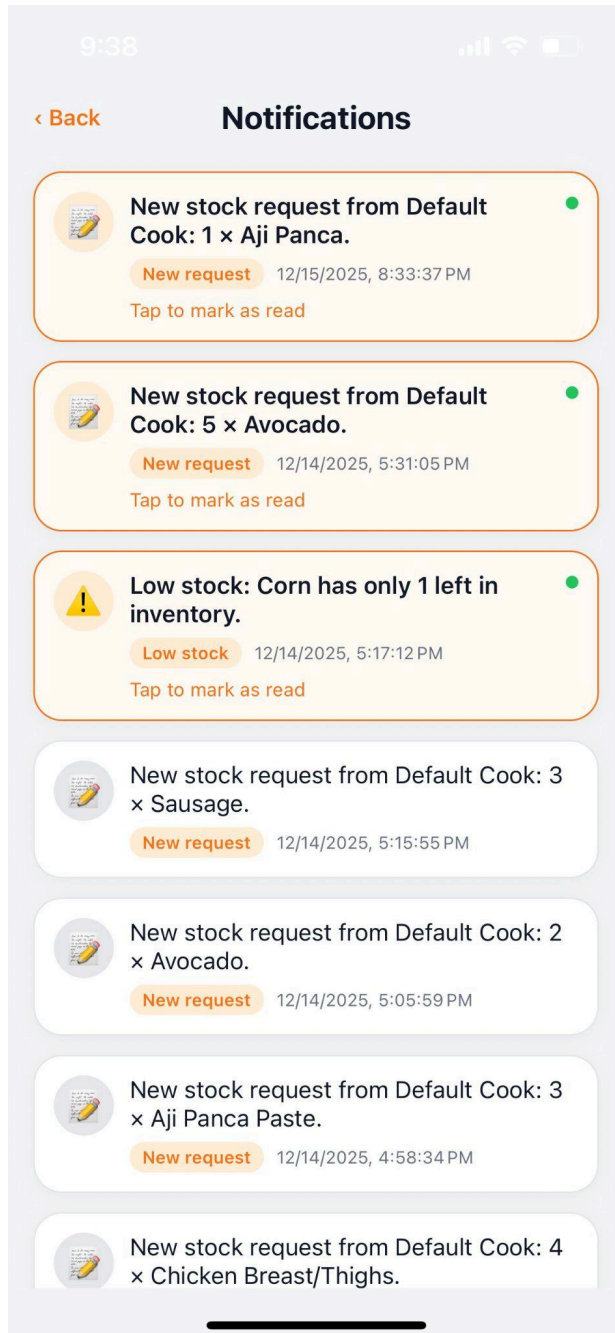
Step 6 — View Weekly/Monthly Reports

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



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.