




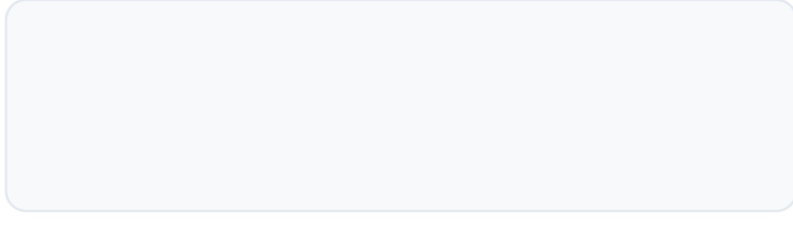
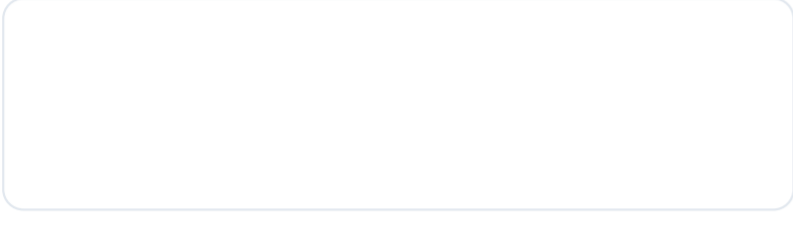


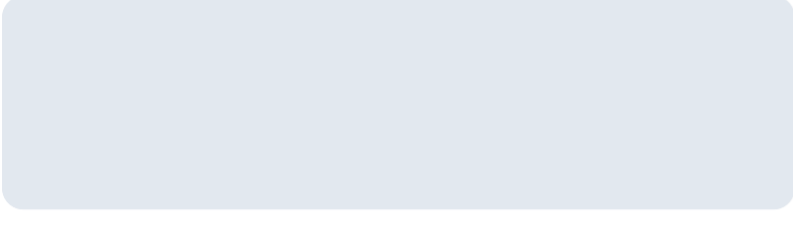


Frame 1: Design System / Color Palette

Color Palette

 <p>Primary Blue #2563EB</p>	 <p>Mint Green #10B981</p>	 <p>Success Green #22C55E</p>
 <p>Error Red #EF4444</p>	 <p>Warning Amber #F59E0B</p>	 <p>Background #F8FAFC</p>
 <p>Surface #FFFFFF</p>	 <p>Text Dark #0F172A</p>	 <p>Text Muted #64748B</p>
 <p>Border #E2E8F0</p>		

Typography

Font Family
Inter

Example Sizes





Heading Large (24px)

Heading Medium (20px)


Body Text (16px)

Caption (14px)

Spacing System

8px	
16px	
24px	
32px	

Border Radius



8px

Buttons

[Primary Button](#) [Secondary Button](#) [Destructive Button](#)

Status Badges

[Ready](#) [Low Light](#) [Saved](#) [Try Again](#)

Table Style

Column 1	Column 2	Column 3
Sample data	Sample data	Sample data
Sample data	Sample data	Sample data

Frame 2: About / Onboarding

Fridge Helper

AI-powered fridge scanner using Raspberry Pi, camera, and YOLO object detection. Scan food items, track expiry dates, and get reminders before products expire.

How It Works

1 Place product in front of camera
Position the food item or package where the camera can see it clearly

2 Press scan button
Press the physical button on the device to trigger a scan

3 AI detects product class
YOLO model analyzes the image and identifies the product type

4 Result is saved with scan date
Scan data is stored with timestamp and detection confidence

5 Optional expiry date
Add expiry date manually to receive reminders before product expires

Status Meanings

Ready Device is ready to scan. Camera active, lighting good.

Low Light Light sensor detects insufficient lighting. Move to brighter area or add light.

Saved Scan completed successfully and saved to database.

Try Again Detection failed or confidence too low. Reposition item and try again.

Frame 4: Data

Total Scanned Items

247

Expiring Soon

12

Failed Scans

8

Latest Scan

2 min ago

Scan History

Product Class	Confidence	Scan Date	Expiry Date	Status
Milk carton	87.3%	2026-05-27 14:32	2026-05-30	Expiring Soon
Apple	92.1%	2026-05-27 12:18	2026-06-02	OK
Yogurt container	78.4%	2026-05-26 19:45	2026-05-28	Expiring Soon
Orange juice	45.2%	2026-05-26 16:22	—	Low Confidence
Cheese block	89.7%	2026-05-25 11:03	2026-06-10	OK
Bread loaf	91.8%	2026-05-25 09:15	2026-05-29	Expiring Soon

Expiring Soon

Milk carton

Expires 2026-05-30

3 days

Yogurt container

Expires 2026-05-28

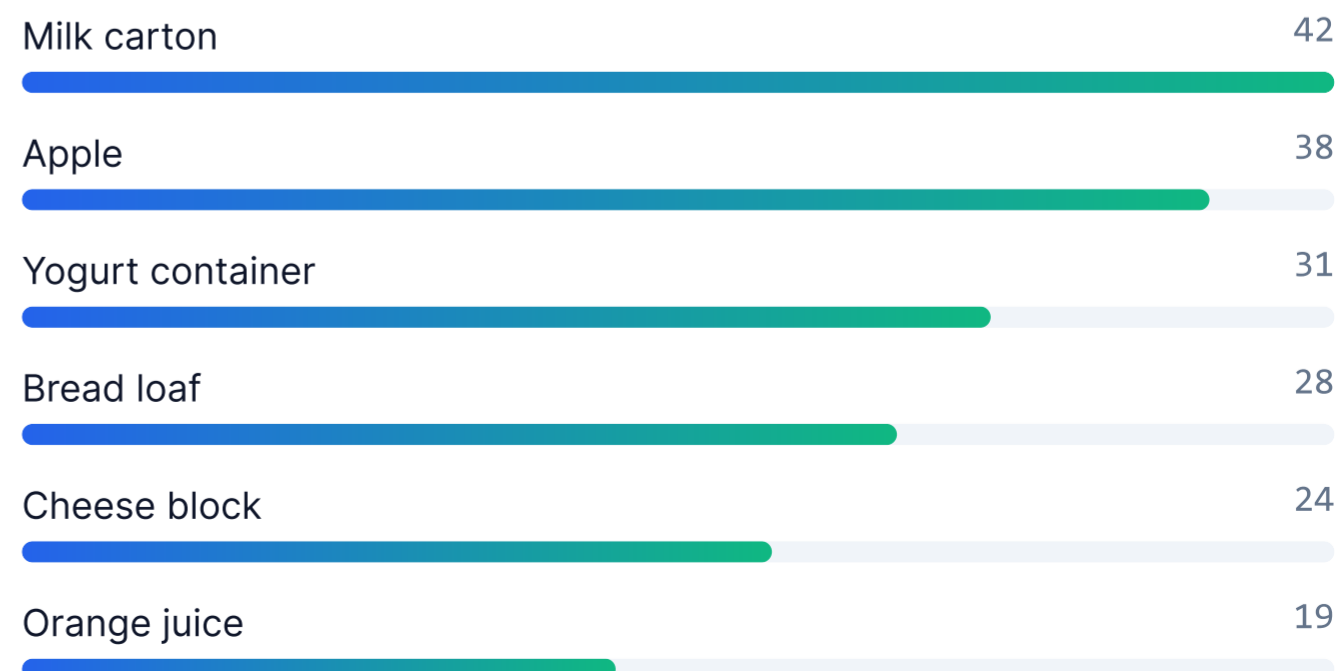
1 day

Bread loaf

Expires 2026-05-29

2 days

Scans by Product Class



Frame 3: Operating

Camera Preview



Scan Control

Press to Scan

Current Status

Ready

Detection Results

Detected Class

—

Confidence Score

—

Expiry Date (Optional)

Set expiry date to receive reminders

Save Result

Save to Database

Light Sensor (LDR)

Light Level

Good

Good

Low

Fridge Helper – Wireframes

Design System

About

Operating

Data

Debugging

Frame 5: Debugging

Hardware Status

Camera Status	Active
LDR Value	742 (Good)
Button Status	Ready
OLED Display	Connected
RGB LED	Functional

AI Model Status

YOLO Model	Loaded
Latest Confidence	87.3%
Inference Time	142ms
GPU Available	No
Model Version	YOLOv8n

System Resources

CPU Usage	23%
Memory Usage	412 MB / 2 GB
Storage Available	8.4 GB
Temperature	47°C
Uptime	3h 42m

Latest Error

2026-05-27 11:23:14

Low confidence detection (45.2%) - threshold not met

Clear Error Log

Test Controls

Test OLED Display

Test RGB LED

Test Camera Capture

Test Button Press