Release Plan

# **Release Plan**

**Product Name: Fridge Friend – Smart Food Waste Reduction App**

**Team Name: FridgePal Dev Collective**

**Release Name: MVP-1**

**Release Date: June 1, 2025**

**Revision Number: 1.0**

**Revision Date: April 13, 2025**

### **High-Level Goals**

* Enable users to track items in their fridge and pantry easily.
* Notify users before items expire to reduce food waste.
* Suggest recipes based on ingredients already at home.
* Allow syncing of household members for shared inventory management.
* Provide food storage tips and expiration tracking for common items.
* Built with **Next.js**, **TailwindCSS**, **FastAPI**, **Supabase**, and **OCR / Barcode APIs**.

## **User Stories Defining the Scope of the Release**

### **Sprint 1: Onboarding and Core Setup (April 15–April 28)**

* 🥇 US-1.1: As a user, I want to manually add items to my fridge list with expiration dates. [5 points]
* 🥇 US-1.2: As a user, I want to scan items using a receipt to auto-fill name and shelf life. [5 points]
* 🥉 US-1.3: As a developer, I want to scaffold the frontend using Next.js and Tailwind. [3 points]
* 🥉 US-1.4: As a developer, I want to build backend item storage and user accounts via FastAPI & Supabase. [3 points]

### **Sprint 2: Project Browsing and Matching Logic (April 29–May 12)**

* 🥇 US-2.1: As a user, I want to receive reminders when items are nearing expiration. [8 points]
* 🥈 US-2.2: As a developer, I want to build a job that runs daily to trigger food expiry alerts. [5 points]
* 🥉 US-2.3: As a developer, I want to integrate an external recipe API to suggest meals based on inventory. [3 points]

### **Sprint 3: Contribution Tracking and GitHub Integration (May 13–May 26)**

* 🥇 US-3.1: As a user, I want to sync my fridge with household members and see real-time updates. [8 points]
* 🥈 US-3.2: As a developer, I want to build household grouping logic and permission control. [5 points]
* 🥈 US-3.3: As a developer, I want to detect “low usage” items and suggest donation or fast-use recipes. [5 points]

### **Sprint 4: Learning Paths, Recognition, and Final Polish (May 27–June 1)**

* 🥇 US-4.1: As a user, I want to get food storage tips for items I add (e.g. “store bananas separately”). [5 points]
* 🥈 US-4.2: As a user, I want a clean dashboard summarizing what needs to be used soon. [3 points]
* 🥉 US-4.3: As a developer, I want to run end-to-end usability tests and polish the UI across devices. [5 points]

## **Sanity Check**

**Total Story Points:** 69  
**Assumed Team Velocity:** ~18 points per sprint (4 sprints)  
**Result:** Within capacity. Load per sprint is balanced and includes setup, integration, and polish.

## **Product Backlog**

These features are planned but deferred to post-MVP:

* Smart OCR for handwritten fridge labels
* Geolocation-based food donation recommendations
* AI-generated weekly meal plans from inventory
* Integration with grocery APIs for price-matched shopping lists
* iOS/Android app with push reminders and widget support