

Nori Farm Delivery Automation – Proposal Document

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Date: July 7, 2025

Project Objective

To support backend operational efficiency at **Nori Farm**, a Web3-based virtual crop platform, I created multiple AI-powered and no-code automation tools that streamline the **harvest-to-delivery pipeline**. Each tool was designed to minimize manual work, reduce errors, and improve logistics visibility using existing Web2 + Web3 data.

Problems Solved

1. Mapping NFT Ownership to Delivery Info

- *Problem:* NFT crop owners are only identified by Wallet_ID; user delivery info is stored separately.
- *Solution:* I auto-matched wallet addresses from the NFT_Ownership sheet with user info from User_Addresses to generate delivery-ready rows.

2. Crop Readiness Alerts

- *Problem:* No system to notify logistics teams when crops are ready (based on harvest date).
- *Solution:* Built a Telegram notification system using **Make.com** that sends alerts when new crops are due for shipping.

3. AI Weekly Summary Reports

- *Problem:* Manual reporting from shipment logs is time-consuming.
- *Solution:* Used **Groq API (LLaMA3)** + Google Sheets + Apps Script to generate **summarized insights** on deliveries (e.g., most shipped crop, delivery volumes).

4. Delivery-Ready CSV Generator

- *Problem:* Logistics teams require CSVs of user-crop-address info for real-world shipment.

- *Solution:* Created an Apps Script that:
 - Joins NFT_Ownership with User_Addresses
 - Filters crops whose Harvest_Date ≤ today
 - Exports the data as a CSV
 - **Sends the file directly to Telegram** via bot
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Tools Used and Why

| Tool | Purpose |
|---------------|---|
| Google Sheets | Base for data storage and workflow tracking |
| Apps Script | Automated logic for CSV generation, filtering, and Telegram messaging |
| Groq API | Fast LLaMA3-powered AI summaries from shipment data |
| Telegram Bot | File delivery and live summary reports in real-time |
| Make.com | No-code automation for harvest alert triggers |

Next Steps for Scale-Up

- Add **error handling** and user-level **access control**
 - Enable **daily triggers** or scheduled runs
 - Expand logic to handle **multiple NFT crops per user**
 - Allow **interactive Telegram bot commands** (e.g., “/today” or “/summary”)
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Summary

This end-to-end automation pipeline turns fragmented NFT ownership records into a clean, AI-assisted logistics stream. It ensures that real-world deliveries are handled based on harvest readiness, automatically generates summaries, and notifies operations teams — all without manual effort.