

XrisP Developer Task Documentation

Candidate: Bokka Satish

Project Title: Nori Farm Genesis - Crop to Product Mapper

Date: July 2025

1. Objective

To design and implement a proof-of-concept web application that maps a virtual crop (NFT ID or name) to a real-world product.

2. Tech Stack

Frontend : Lovable.dev (Next.js + Tailwind CSS)

Language : TypeScript

Data Layer : Static JSON (products.json)

Deployment : GitHub (public repo)

AI Tools : GPT-4 (ChatGPT), Lovable.dev

3. Functionality Overview

- Input: User types a crop name or NFT ID (e.g., 'Tomato #124')
- Process: The app checks a local JSON file simulating a product database
- Output:
 - Match Found: Displays product Title, Price, Image, and Buy Link
 - No Match Found: Shows fallback message
- Bonus Features: Dark Mode Toggle, Responsive design, AI Tool Usage Panel

4. Project Structure

nori-farm-genesis-web/

├── app/

│ ├── page.tsx -> Main landing page layout

│ └── components/

│ ├── CropMapper.tsx -> Handles crop input + product result display

│ └── public/

│ ├── products.json -> Mock product database

│ └── styles/ -> Tailwind/global CSS

└── README.md -> GitHub documentation

5. AI Tools Usage

GPT-4 (ChatGPT) and Lovable.dev were used to:

- Plan website layout and UX flow
- Generate UI component scaffolding and Tailwind-compatible markup
- Implement Dark Mode logic, form validation, and animations

Prompt Example:

"Build a modern, responsive landing page for Nori Farm with hero, mission, how-it-works, crop input, product card,

6. Example Product Output

```
{
  "crop": "Tomato #124",
  "matchedProduct": {
    "title": "Fresh Organic Tomato Box",
    "price": "19,000 KRW",
    "image": "https://via.placeholder.com/200",
    "buyLink": "https://your-mockshop.com/product/tomato124"
  }
}
```

}

7. Functional Highlights

- Clean, minimalist design
- Smooth UX transitions and feedback
- Fully responsive for mobile and desktop
- Modular code structure for easy extension

8. Future Enhancements

- Live API Integration: Connect to real Cafe24/Shopify endpoints
- NFT Verification: Wallet login and token ownership check
- User Dashboard: Track crop growth and orders
- Smart Contracts: Automate token issuance and rewards

9. Assumptions / Limitations

- Static data only—no backend or live API
- NFT/blockchain logic is not implemented
- Prototype emphasizes UI/UX and flow

10. Submission Details

GitHub Repo: <https://github.com/SatishBokka102/nori-farm-genesis-web>

Live Demo: (To be deployed via Vercel)

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