**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 agricultural product**, simulating integration between **Nori Farm’s virtual platform** and a shopping platform like **Cafe24** or **Shopify**. The solution also demonstrates how AI tools were used to scaffold and accelerate development.

**2.Tech Stack**

| **Layer** | **Tools Used** |
| --- | --- |
| 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., Carrot #NFT002)
* **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**

* pgsql
* Copy code
* 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

**6. Example Product Output**

* json
* Copy code
* {
* "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)
* **Developer:** Bokka Satish
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