**🚀 Final Project Roadmap for Naruto Coders**

**1. Project Overview**

**Project Name: Transparent Natural Farming Marketplace**

**Team Name: Naruto Coders**

**Core Idea: A blockchain-powered, AI-enabled marketplace connecting natural farmers with consumers through digital certification, QR code-based product traceability, and AI-powered recommendations.**

**2. Folder & File Structure**

**Root Project Folder: NarutoCoders-Marketplace/**

NarutoCoders-Marketplace/

│── Documentation/

│── Design/

│── Backend/

│── Frontend/

│── Blockchain/

│── AI-Features/

│── Database/

│── Deployment/

│── Testing/

│── Pitch/

│── Research/

│── Resources/

│── Team-Management/

**📂 Backend/**

Backend/

│── app/

│ ├── models/

│ │ ├── UserModel.py

│ │ ├── ProductModel.py

│ │ ├── OrderModel.py

│ ├── routes/

│ │ ├── authRoutes.py

│ │ ├── productRoutes.py

│ │ ├── orderRoutes.py

│ ├── controllers/

│ ├── services/

│ ├── main.py

│── requirements.txt

│── .env

│── README.md

│── tests/

**📂 Frontend/**

Frontend/

│── src/

│ ├── pages/

│ │ ├── Auth/

│ │ │ ├── Login.js

│ │ │ ├── Register.js

│ │ │ ├── ForgotPassword.js

│ │ ├── Consumer/

│ │ │ ├── Dashboard.js

│ │ │ ├── Orders.js

│ │ │ ├── Subscription.js

│ │ │ ├── Scanner.js

│ │ ├── Farmer/

│ │ │ ├── Dashboard.js

│ │ │ ├── AddProduct.js

│ │ │ ├── Orders.js

│ │ │ ├── Bidding.js

│ │ │ ├── Analytics.js

│ │ ├── Marketplace/

│ │ │ ├── Marketplace.js

│ │ │ ├── Filters.js

│ │ │ ├── ProductCard.js

│ │ ├── ProductDetails/

│ │ │ ├── ProductDetails.js

│ │ │ ├── Reviews.js

│ │ │ ├── QRVerification.js

│ │ ├── Checkout/

│ │ │ ├── Checkout.js

│ │ │ ├── PaymentOptions.js

│ │ │ ├── OrderSummary.js

│ │ ├── OrderTracking/

│ │ │ ├── OrderTracking.js

│ │ │ ├── LiveTracking.js

│ │ ├── Chat/

│ │ │ ├── Chat.js

│ │ │ ├── MessageList.js

│ │ │ ├── SendMessage.js

│ │ ├── Admin/

│ │ │ ├── Dashboard.js

│ │ │ ├── FarmerApprovals.js

│ │ │ ├── UserManagement.js

│ ├── components/

│ ├── styles/

│── App.js

│── package.json

│── README.md

**📂 Blockchain/**

Blockchain/

│── contracts/

│ ├── Marketplace.sol

│ ├── Bidding.sol

│ ├── Token.sol

│── scripts/

│ ├── deploy.js

│── README.md

**📂 AI-Features/**

AI-Features/

│── crop\_quality\_model/

│ ├── model.py

│ ├── train.py

│── recommendation\_system/

│ ├── recommend.py

│── README.md

**📂 Database/**

Database/

│── schema/

│ ├── database\_schema.pdf

│ ├── MongoDB\_Queries.md

│ ├── seed\_data.js

│── migrations/

**6. Frontend Pages & UI Design**

**📌 Pages Overview**

1️⃣ **Authentication Pages:**

* **Login Page** – Users log in using email, Google, or Telegram.
* **Register Page** – Farmers & consumers sign up separately.
* **Forgot Password Page** – Password reset via email/OTP.

2️⃣ **Home Page:**

* Introduction to the marketplace.
* Categories of products (Fruits, Vegetables, Dairy, etc.).
* Trending Products & Featured Farmers.

3️⃣ **Consumer Dashboard:**

* Personalized product recommendations (AI-powered).
* Subscription model (weekly/monthly organic product deliveries).
* Order history & tracking.

4️⃣ **Farmer Dashboard:**

* Add new product (Upload product details, set pricing, verify authenticity).
* Order management (Track orders, manage inventory).
* Sales analytics dashboard.
* Bidding system (Check live bids, accept highest bid).

5️⃣ **Marketplace Page:**

* Product listings with search & filters (category, price, certification).
* QR code scanner (Verify product authenticity).
* Live bidding section.

6️⃣ **Product Details Page:**

* Product image & description.
* Price, weight, and seller details.
* Blockchain verification (QR Code).
* Add to cart or bid on the product.

7️⃣ **Checkout Page:**

* Multiple payment options (UPI, Crypto, Bank Transfer).
* Order summary & discounts.
* Place order button.

8️⃣ **Order Tracking Page:**

* Track live order status (Processing, Shipped, Delivered).
* Estimated delivery time.

9️⃣ **Chat Page:**

* Real-time chat system between buyers and farmers.
* Chat history and attachments for product details.

**5. Final Deliverables**

✅ **GitHub Repository** – Full Source Code. ✅ **Pitch Deck (PPTX)** – Final Presentation. ✅ **Demo Video (MP4)** – App Walkthrough. ✅ **Final Report (PDF)** – Complete Documentation. ✅ **Hackathon Submission File** – All Required Documents & Links.

**🚀 Next Steps**

1️⃣ **Set up Folder Structure & GitHub Repo.** 2️⃣ **Assign Team Tasks & Start Development.** 3️⃣ **Create Wireframes & UI Mockups in Figma.** 4️⃣ **Develop Bidding System Smart Contracts & APIs.** 5️⃣ **Integrate Frontend with Backend & AI Models.** 6️⃣ **Test & Optimize Before Deployment.** 7️⃣ **Prepare for Final Pitch & Submission.**

This roadmap ensures a **well-structured, successful hackathon project**! 🚀🔥 Let me know if you need any additions! 🎯