**Final Project Plan**

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**Round: 62**

**ID: 1285250**

**Agricultural Products and Equipment Marketplace + Farmer Information Service Application**

**Business Name:**

AgroVilla

**About:**

**AgroVilla** is a comprehensive digital marketplace and information service platform designed for farmers, sellers, and buyers in the agriculture industry. The platform offers a seamless system for buying and selling agricultural products and equipment while also providing essential farming information, market prices, government schemes, and a community space for farmer-to-farmer learning and support.

Our mission is to digitally empower agriculture, improve market access for farmers, and provide the tools, knowledge, and connectivity they need to thrive.

**Business Details:**

**AgroVilla** is built on three major service pillars:

**1. Agricultural Products & Equipment Marketplace**

* A user-friendly platform to buy and sell seeds, fertilizers, saplings, machinery, and more.
* Enables direct transactions between farmers/sellers and buyers.
* Features include product catalog, cart system, secure payment gateways, delivery tracking, and ratings.

**2. Farmer Information & Support Services**

* Expert farming advice including crop guidelines, pest control, and seasonal tips.
* Real-time market prices and weather forecasts.
* Updates on government grants, subsidies, and agricultural schemes.

**3. Farmer Community & Assistance Hub**

* An interactive forum where farmers can share experiences, issues, and solutions.
* Equipment rental services (e.g., tractors, irrigation pumps).
* Access to agricultural loan and subsidy information.

**Project Scope:**

**1. User Roles & Features**

**Admin**

* Manage users (buyers, sellers, support staff)
* Approve/reject product listings
* Generate reports (sales, traffic, product demand)
* Manage blogs, tips, and content

**Seller (Farmer/Brand)**

* Upload and manage products
* Set prices, offer discounts
* Process and track orders
* Collect and respond to reviews

**Buyer**

* Search and filter products
* Add to cart, place orders, make payments
* Track order delivery
* Review and rate purchased products

**Customer Support**

* Live chat and support ticketing
* Handle queries from buyers and sellers

**2. Core Functional Features**

**Marketplace**

* Product catalog with categories (seeds, fertilizers, equipment)
* Add to cart, checkout, and delivery system
* Integration with local payment gateways (bKash, Rocket, card payments)

**Agricultural Information Services**

* Crop-specific farming guides (rice, wheat, vegetables, etc.)
* Pest/disease management and pesticide advice
* Real-time market price updates (API-based)
* Weather forecasts (temperature, rainfall, humidity)
* Government scheme and subsidy information

**Farmer Community & Peer Support**

* Forums for farmer discussion and issue sharing
* Learn from real farmer experiences
* Post questions, share tips and success stories

**Farmer Assistance Services**

* Equipment rental management (tractors, sprayers, etc.)
* Loan and subsidy program info with application guidance

**3. Analytics & Reporting**

* Admin dashboard with data analytics (sales, user trends)
* Seller profit/loss and product performance reports
* Buyer behavior analysis for targeted recommendations

**4. Checkout & Cart Management**

* Add multiple products to cart
* Edit or remove items from cart
* Enter shipping info, select payment method
* View order summary (items, discounts, delivery charges)
* Apply coupon codes and discounts

**5. User Registration & Security**

* User Sign Up & Login (Buyer, Seller, Admin)
* Two-Factor Authentication for added security
* Profile management (address, phone, preferences)

**6. Product Search & Discovery**

* Search by product name, category, or brand
* Filter by category (e.g., seeds, equipment)
* Sort by price, popularity, rating
* Product comparison feature