DEVSHOUSE

Idea Title : Agri-Link

Team Name : Titans
Domain : FinTech

GDG on Campus

VIT ®
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)
CHENNAI

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Problem Statement

– What problem are you looking to solve?

Agri-Link is designed to tackle the key issues of farmers' access to key agricultural resources and services, including storage, equipment rentals, crop analysis, transport, and labour. Through the provision of a comprehensive, easy-to-use platform, Agri-Link closes the gap between farmers and service providers, making it easier to book and manage the services. Furthermore, the use of blockchain technology for secure, transparent, and decentralized transactions provides assurance and efficiency, especially for large-scale farming. This holistic solution allows farmers to concentrate on growth and productivity while cutting down on logistics and cost.

Product Idea

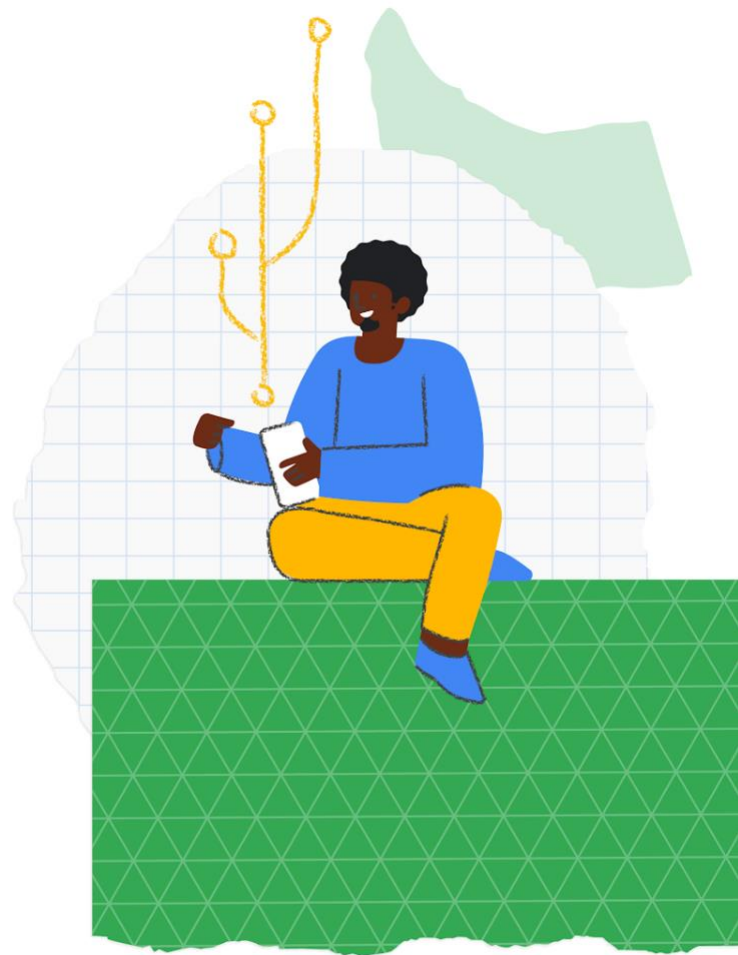- **How does your Product solve the problem?**

Agri-Link solves the problem by providing a unified platform to match farmers with required services like storage, equipment hire, testing of crops, transport, and recruitment of labour. Farmers are able to easily browse, book, and pay for services through built-in payment gateways like blockchain wallets for safe, high-value transactions. The platform is made secure by a verification process for service providers and employs blockchain for transparency and efficiency. Furthermore, farmers are able to buy insurance policies, seeds, and fertilizers from local traders directly without the involvement of middlemen, thus getting improved price and quality. By facilitating easy access to resources, Agri-Link eliminates lost time, reduces inefficiencies, and allows farmers to focus on growth and productivity.

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Additional Info

This Feature
- *Rental of Storage Space:* Enables owners to lease idle spaces for storage of crops.

Integrates With
- *Payment Systems:* Blockchain wallets for payments.
- *Verification System:* OCR for document verification and admin manual approval.

Results In
- *Effective Resource Utilization:* Farmers can book storage spaces without any difficulty, eliminating post-harvest losses.
- *Transparency & Trust:* Blockchain facilitates secure and transparent transactions, establishing trust among users.

This integration improves resource accessibility and transaction transparency, establishing Agri-Link as a trustworthy platform for farmers.

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How Unique is it?

Aspect	Existing Platforms (Agro-Star, Ag-Revolution)	Coined Novelty (Agri-Link)
Blockchain Integration	No blockchain integration for transparency or secure transactions.	Blockchain for decentralized ledgers, smart contracts, and secure wallet systems for large-scale transactions.
Transportation Services	No dedicated system for sorting transportation by price, route, or delivery options	Transportation services with sorting by price, route, and delivery options for farmers.
Community Interaction	Limited or no community-based interaction or problem reporting.	Blog-based community forum for farmers to share experiences, report issues, and interact.

Tech Stack

Framework
- *Frontend:* React.js / Next.js
- *Backend:* Node.js / Express.js / Django
- *Blockchain:* Web3.js / Ethers.js

Accessibility
- *UI/UX:* Intuitive Design
- *Inclusivity:* WCAG Compliance

APIs
- *Payment Gateways:* Blockchain Wallets
- *Third-Party:* Government APIs, Market Data APIs

Database
- *Structured Data*: PostgreSQL
- *Real-Time Features:* Firebase

ML
- *OCR:* Document Verification
- *Predictive Analytics:* Crop Yield, Market Prices

Sky is the Limit
- *Hosting:* AWS / Vercel
- *Blockchain Services:* Infura / Alchemy
- *Future:* AI, IoT, DAOs

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Team Members

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