HACK JKLU v4.0

Problem statement no. – E8
Title - Online Platform for Assured Contract Farming
Agreements
PS Category – Software
Team Name - NEWBIES

PROBLEM STATEMENT & IMPORTANCE

In India about 50% of Indian workforce is employed in agriculture. About 80-90% of farmers are doing Offline Contract farming and 10-20% farmers are doing online contract farmer.

Problems in Traditional Contract farming:
- Lack of transparency.
- No legal assurance of payment
- Uncertainty due to fluctuating market prices.
- Farmers struggle to find reliable customers.

Our Solution: A Secure Online Platform for Assured Contract Farming

- Streamlined Process

    A centralized platform streamlining the entire contract farming process.
- Secure Contracts

    Secure digital contracts ensuring compliance and accountability.
- Transparent Pricing

    Transparent pricing mechanisms and fair trade practices.
- Timely Payments

    Timely and automated payment processing for farmers.

PROPOSED SOLUTIONS

By this platform, our goal is to connect farmers with buyers with secure contracts, fair prices and timely payments.

In this platform our main motive is to reduced the problems of both buyer and the farmer by providing them a secure agreements with all the important things mentioned in it.

TECHNICAL APPROACH

For this website we used different type of technologies as follows :-
- Frontend- HTML, CSS , JavaScript
- Backend- Node.js
- Database- MySQL
- Authentication- Firebase
- Payments- Razor pay
- Blockchain

FEASIBILITY AND VIABILITY

Feasibility :-
This platform is feasible due to those farmers who did not get a good buyer and have less profit. And buyers those who get inappropriate seller who did not give proper goods.
So, due to these type of problems both buyer and seller want's a good match with proper paperwork.

Challenges and Solutions :-
The main challenges are to secure their data, secure their payments, or securing all their personal data from hackers or different types of unauthorized users or websites.
Solutions for this is that we have to address these with strong security in our platform. We have to secure their payments via using proper payment apps. We have to ensure that there is no problem in communication of buyer and seller.

IMPACT AND BENIFITS

Impacts :-
The economical impact is that the farmers receive assured payments, and the buyer get assured goods through pre-agreed contracts, reducing financial uncertainty. And the social impact is that the blockchain and digital contracts enhance accountability, reducing contract breaches.

Benefits :-
The benefit to buyer is that reliable sourcing of quality produce with contractual assurance. And the benefit to farmer is that guaranteed market access, reducing dependence on market conditions. The benefit to government is that it increased farmer incomes and boost rural economic development.

RESEARCH AND REFERENCES

- Department of Agricultural & Farmer's Welfare- https://agriwelfare.gov.in/
- University of Agricultural Sciences, Dharwad- https://uasd.edu/
- Indian Council of Agricultural Research- https://www.icar.org.in/