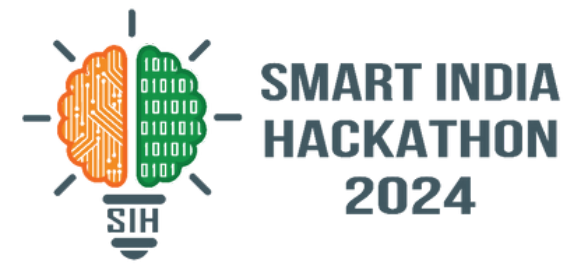


# SMART INDIA HACKATHON 2024

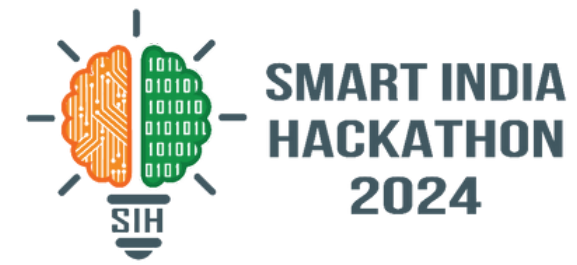


- Problem Statement ID : **SIH1640**
- Problem Statement: **Assured Contract Farming System for Stable Market Access**
- Theme: **Agriculture, FoodTech & Rural Development**
- PS Category: **Software**
- Team ID: \*
- Team Name: **Nerd Ninzas**





# Contract Farming



## Problem faced by farmers

- A significant challenge that farmers face: uncertainty in market access. Due to fluctuating demand and inconsistent buyers, farmers often experience volatile incomes, which can threaten their livelihoods.

## What we propose

- **Contract Management:** Tools for creating, editing, and tracking contracts, ensuring that all parties are aware of their obligations and timelines.
- **Price Negotiation:** A negotiation feature that allows farmers and buyers to discuss and agree on fair prices before finalizing a contract.
- **Secure Payment Processing:** Integrated payment gateways that ensure funds are transferred securely and promptly, reducing the financial risk for farmers.

## What we Intend to provide

- **Transparent Communication**
- **Secure Contracts**
- **Price Negotiation**
- **Review and Rating System**
- **Market Trends**
- **Multi lingual**





# TECHNICAL APPROACH



SMART INDIA  
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2024

## IDEA SOLUTION& PROTOTYPE

- **Multilingual**

We offer our customers a easy to use platform & regional language support.

- **Marketplace Interface**

Farmers can create listings for their available or upcoming produce. Buyers can browse these listings, filter by crop type, region, quantity, etc.

- **Review and Rating System**

Both farmers and buyers can rate each other, providing transparency and building trust within the community.

- **Contract Lifecycle Management**

Track the status of contracts from negotiation to signing, execution, and completion. Automated alerts for key milestones like delivery dates and payment due dates.

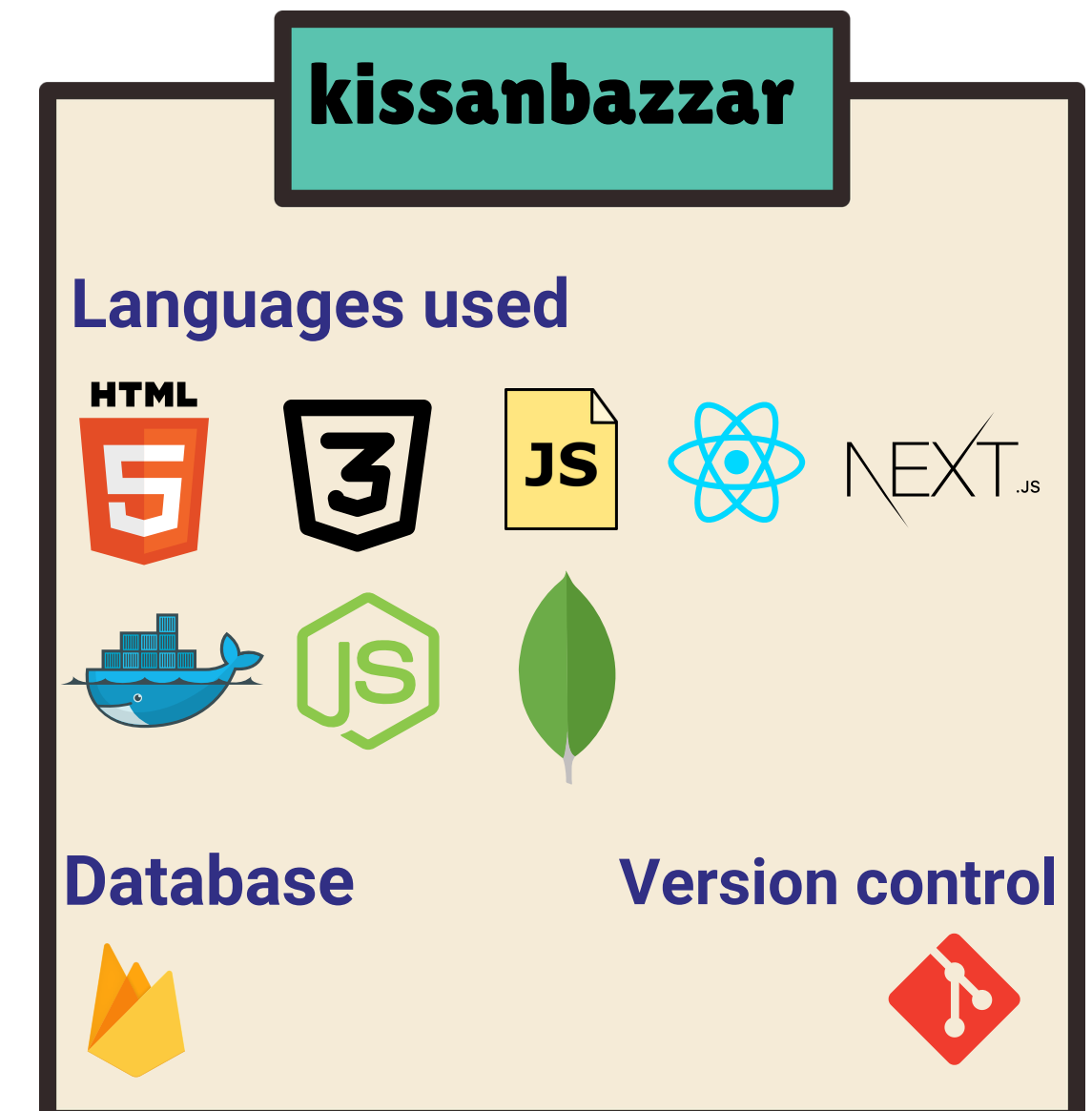
- **Chat Feature**

Real-time messaging for quick communication.

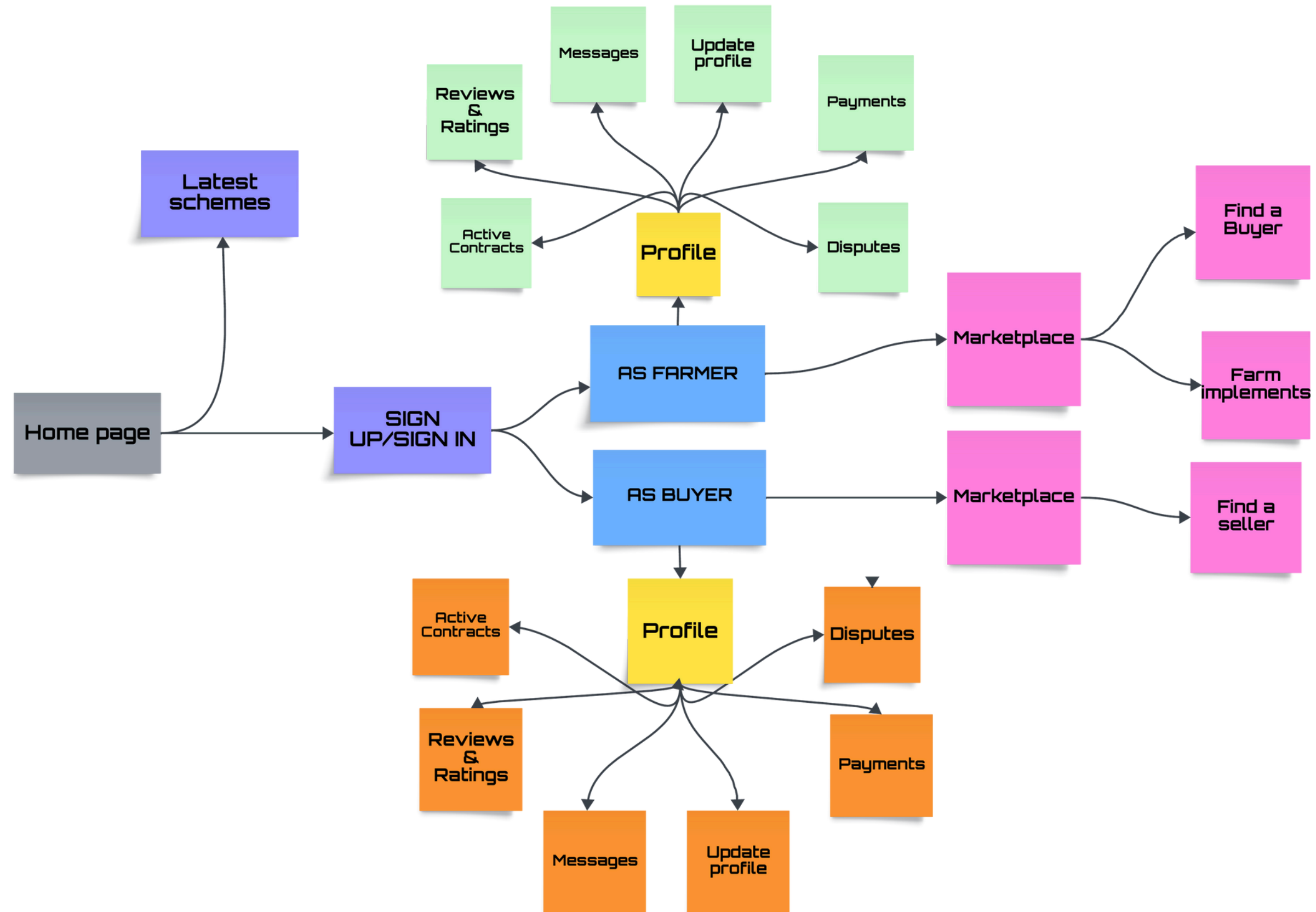
- **Data Security**

Smart contract based deployment , respecting the privacy of the user is our foremost priority.

## « Dependencies & Techstacks »



# Flow Of control



# IMPACT AND BENEFITS

- **Guaranteed Market Access**

Farmers have assured buyers, leading to stable income and reduced market risks.

- **Fair Pricing**

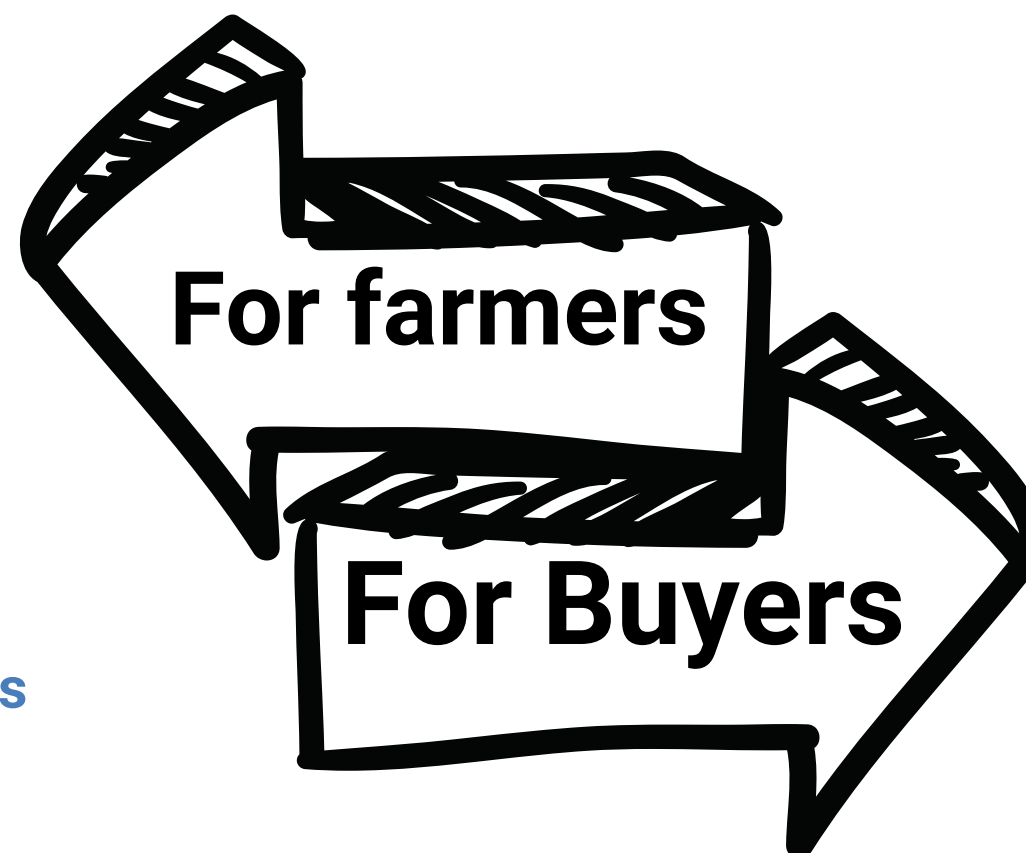
Transparent price negotiations ensure farmers receive fair compensation.

- **Secure Contracts**

Legally binding agreements protect farmers from non-payment and unfair practices.

- **Empowerment and Sustainability**

Farmers gain control over their operations and are encouraged to adopt sustainable practices.



- **Reliable Supply**

Consistent quality and quantity of produce ensure a stable supply chain.

- **Quality Assurance**

Standardized contracts and traceability ensure high product quality.

- **Cost Efficiency**

Reduced reliance on intermediaries lowers costs, and negotiated pricing improves margins.

- **Secure Transactions**

Legal protections and flexible payment options enhance transaction security.



# RESEARCH AND REFERENCES

Nerd  
Ninzas



## Buying contract

Direct contracting reduces market volatility for farmers, secures sources, and enhances trust. Referenced from AgriBusiness Studies, 2020.

## Farmer Education

Research from FAO, 2019 highlights that adopting organic and sustainable farming practices can increase yield and long-term food security. 15% increase in crop yields and soil fertility.

## Chatbot Integration

Chatbots for high success rate in improving user engagement in digital with anytime support. Source: Artificial Intelligence in Agriculture, 2021.

## Future Prospects

Our platform will integrate courses based on research from International Food Policy Research Institute (IFPRI), educating farmers in sustainable methods can improve productivity upto 20%.