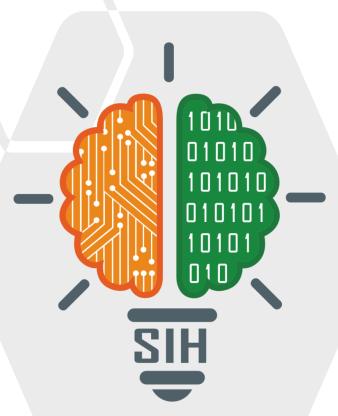
SMART INDIA HACKATHON 2024



TITLE PAGE

- Problem Statement ID SIH1640
- Problem Statement Title- Assured Contract Farming
 System for Stable Market Access
- Theme- Agriculture , Foodtech & Rural Development
- PS Category- Software
- Team ID- 7245
- Team Name- INGLOURIOUS_BUGSTARS_061





FarmTerms

Empowering Farmers with Assured Market Access through Digital Contract Farming



Proposed Solution:

We have planned on developing a **web-application** where farmers and buyers can interact with each other. Our web-application aims on providing farmers with **increased market access** which will help them scale their profits by **eliminating middle-men**. Buyers will also benefit as they will be given access to **high quality produce for a far cheaper price**. **Auction system** followed by **e-Contract generation** will also be implemented for **fair trading practices**, reducing the chances of fraudulent behaviour.

- 1 Solution Overview:
- An online
 marketplace where
 farmers and buyers
 can connect.
- Features: auctions, contract management, and secure payments.
- Marketplace for direct farmerbuyer connections.

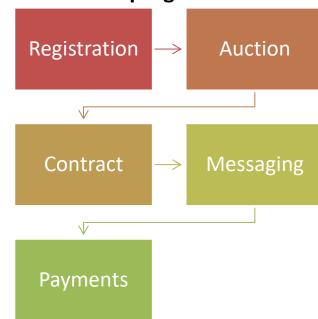
- Problem Solved:
- Provides stable
 market access and
 transparent
 contracts.
- Ensures reliable
 payments and
 ensures stable
 income for farmers.
- Minimizes market risk with contracts.

3 H

Key Innovations:

- Real-time auctions with incremental bids.
- E-contract generation after the auction.
- **2FA OTP login** for security.
- Graphical transaction history for ease of use.

Flow of our program:



Scan to view the figma wireframe.



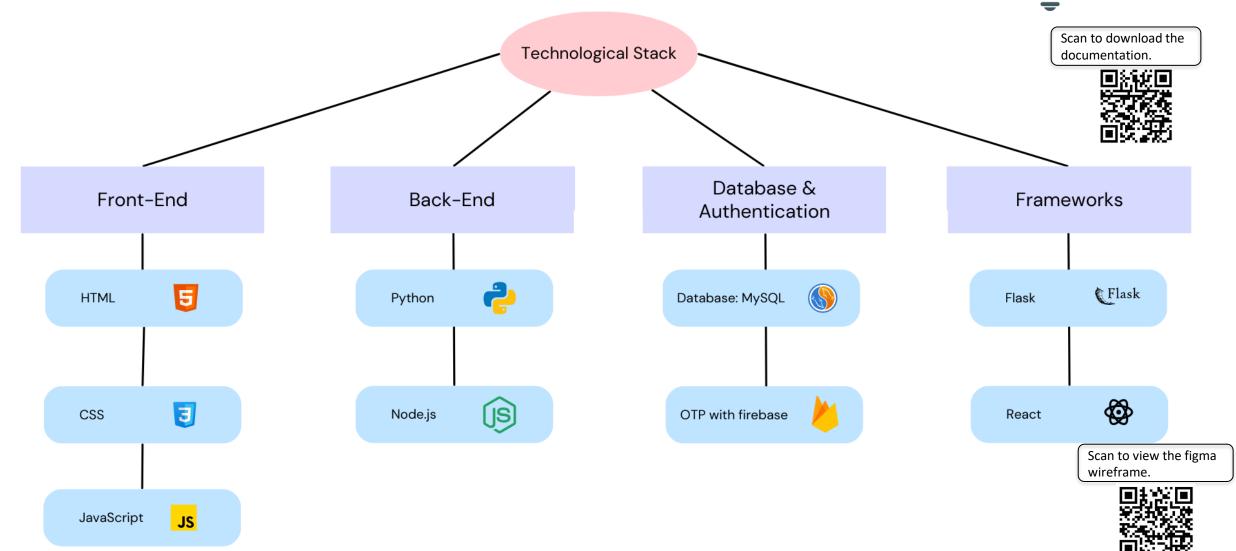
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TECHNICAL APPROACH







FEASIBILITY AND VIABILITY



Feasibility:

Technology stack is well-known and scalable.

Challenges and Risks:

- User adoption by farmers in rural areas.
- Data security for payments and contracts.

Mitigation Strategies:

- Provide local language support and easy-to-use interface.
- Implement **strong encryption algorithms** to ensure confidentiality.







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IMPACT AND BENEFITS

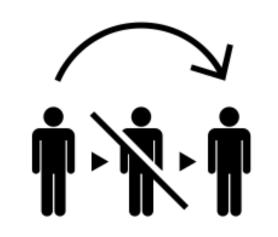


Solution impacts:

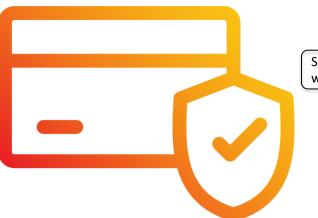
- Social impact: Empowering farmers through elaborated market access.
- **Economic impact:** Reduced **middlemen** and increased **profits** for farmers.
- Technological impact: Encourages digital adoption in farmers.

Benefits:

- Elaborated market access to farmers, ensuring stable income.
- Buyers will get access to high-quality and reliable produce.
- Efficient operations by streamlining contract management and secure payment processes.







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RESEARCH AND REFERENCES



- Impact of digitization on farmers: https://youtu.be/IrSS7Ikvzjk?si=2lhRXwZgflHqjTs3
- How the government helps: <u>https://youtu.be/UhZAgYPXmCk?si=otYa6KVK-o1_oVQr</u>
- Agriculture and technology:
 https://www.sciencedirect.com/science/article/pii/S2772375

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- Farmers having access to smartphones:
 https://www.mckinsey.com/industries/agriculture/our-insights/how-agtech-is-poised-to-transform-india-into-afarming-powerhouse
- Market related problems:
 https://www.researchgate.net/publication/351436518 Problems and Constraints Faced by Farmers in Financing and Marketing of Agricultural Produce in India



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