

Oss<>me H>cks 2.0

Empowering Innovation, **One** Awesome **Hack** at a Time!

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KRISHI CONNECT

Team Name: Golden Circle

Team Lead: Vedant Tiwari

Track: AgriTech



**Krishi
Connect**

PROBLEM STATEMENT

- Small-scale farmers face numerous challenges such as lack of credit, volatile market prices, and an insecure supply chain, leading to financial instability and **food wastage**. In 2014, the economic value of **post-harvest losses** in India was estimated at **₹92,651 crore** (USD 15.19 billion), accounting for about 0.6% of the country's GDP, highlighting the **severity** of the issue. [Study by Gov](#)
- **53 %** of Indian Small Scale and Marginal farmer report an incidence of **informal debt**.
- These issues highlight a need for a centralized **marketplace** for **wholesalers and farmers** with complete transparency and flexibility according to yield.

PROPOSED SOLUTIONS

- Our solution aims to develop a platform that allows the **large agricultural buyer** connect with **farmers (Seller)**. **Buyers post request** for crops, quantities, and delivery timeline. An **AI system** will **match buyers and farmers** based on their profile.
- **Farmers can browse and accept request**. **Funds are released** in stages based **on the milestone progress** (crop growth stages) which is **validated by an admin**(third party).
- Farmers and buyers can **chat through the platform** for negotiations and updates. Once the crops are harvested, the farmer delivers the crops as per the agreement.

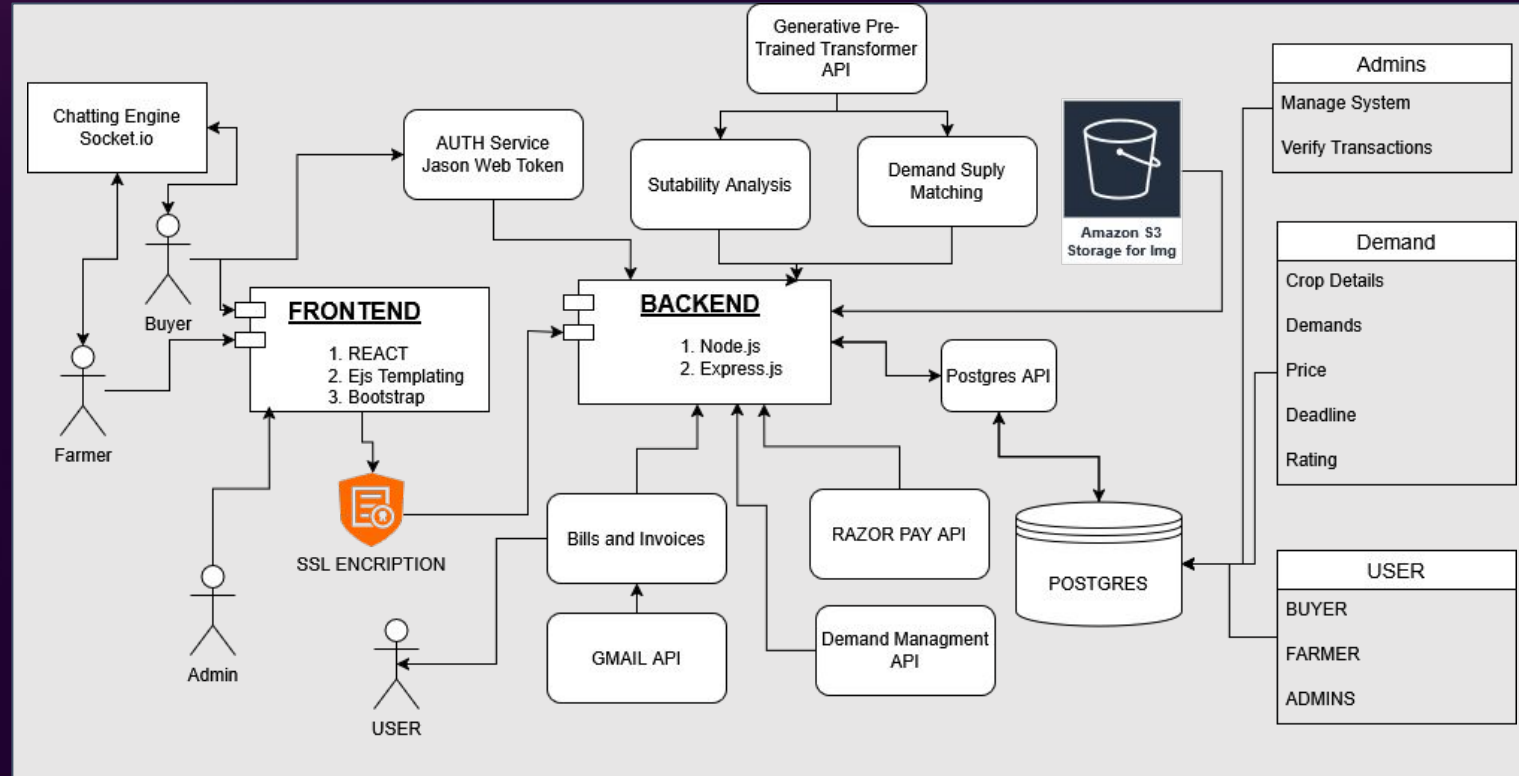
PROPOSED SOLUTIONS

- Instead of relying on the fluctuating market pricing, the **farmer gets to choose what price** they want to sell at.
- The farmer gets to choose **which crop they wish to grow** based on the soil condition and their expertise.
- The farmer can choose a suitable **timeline** for themselves depending on the **crop growing cycles** which will **minimize the losses** due to lack of transportation and storage facilities.

TECHNICAL APPROACH

- Frontend: React.js, Bootstrap and EJS Templating
- Backend: Node.js, Express.js, Socket.io(chatting)
- Database: Postgres, Amazon S3 bucket
- APIs: GPT API, Razorpay API, Gmail API
- Authentication: JWT, SSL Encryption

TECHNICAL APPROACH



FEASIBILITY & SCALABILITY

Feasibility

1. No expensive devices needed — Only **Smartphone + Internet**.
2. Farmers can upload **photos with location** to show progress.
3. Payments through **Bank Transfer** — widely used in villages.
4. Works on **low internet speeds** with simple mobile-friendly design.
5. Easy to **verify progress** without any hardware or sensors.

Scalability

1. Start with **100 farmers** in one village. Scale to thousands across regions and globe.
2. Add **multiple languages** for different states easily.
3. Works for any **crop type or buyer demand**.
4. Connect with **government schemes, NGOs & Agri Businesses** to reach more farmers.
5. Cloud-based system — No extra cost to handle more users.
6. Future add-ons like **Weather Alerts & Crop Advice** without changing the platform.

TEAM MEMBERS

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By-

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