



SHRIDEVI HACKATHON 2024

TITLE PAGE

Theme - Agriculture

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PROBLEM STATEMENT

1. **Market Access Challenges:** Farmers often struggle to access markets due to limited information about potential buyers, leading to reliance on middlemen.
2. **Brokerage Costs:** Many farmers face challenges in selling their crops directly to buyers, as they are compelled to pay significant fees to brokers, which reduces their overall profits.
3. **Lack of Pricing Transparency:** Farmers often lack awareness of market rates, making it difficult for them to negotiate fair prices and resulting in financial instability.

Solutions

1. **Direct Buyer Connections:** Connecting farmers directly with buyers through an app, eliminating the need for brokers and allowing farmers to retain more of their profits.
2. **Transparent Pricing Information:** Integrating real-time market pricing features into the app to empower farmers to negotiate better deals and understand the true value of their crops.
3. **Quality Updates and Transparency:** Enabling farmers to update the quality and availability of their produce directly within the app, allowing buyers to access accurate information and make informed purchasing decisions.



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TECHNICAL APPROACH

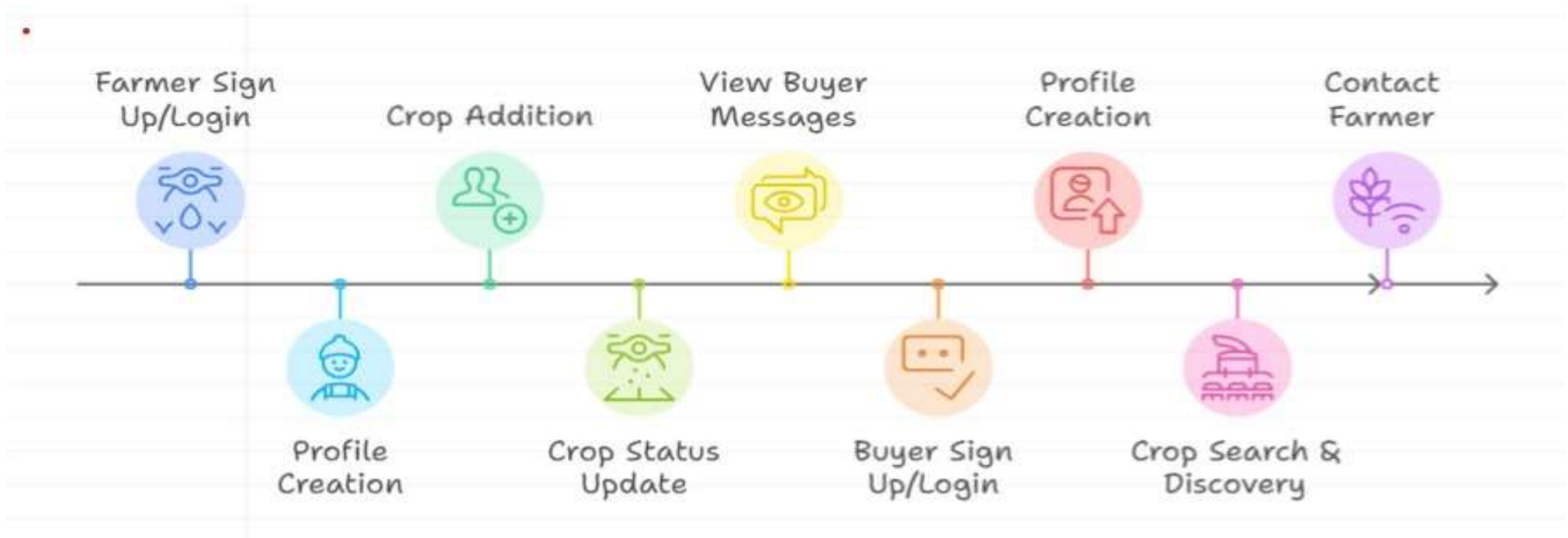


1. Programming Language : PYTHON , Machine learning
2. Frameworks : Mobile Development MIT app inventer or Flutter for building cross-platform apps.
3. APIs : Geolocation Google Maps API for locating farmers and buyers.



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FLOW CHART





FEATURES



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- **User Registration and Profiles:** Allow farmers and buyers to create and manage their profiles for personalized experiences, including crop listings and purchasing history.
- **Direct Messaging:** Enable direct communication between farmers and buyers within the app, facilitating negotiations and clarifications regarding produce.
- **Real-Time Pricing Updates:** Provide users with real-time market pricing information to help farmers make informed decisions and negotiate fair prices.
- **Quality Updates:** Allow farmers to update the quality and availability of their crops, enabling buyers to access accurate information before making purchases.



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CHALLENGES FACED

1. **Technical Skill Gaps:** Team members may lack experience in app development.
Solution: Conduct workshops or utilize online resources to enhance skills in the required technologies.
2. **User Adoption:** Farmers may be hesitant to adopt new technology.
Solution: Provide training sessions and create user-friendly tutorials to ease the transition.
3. **Data Accuracy and Reliability:** Ensuring that the pricing and quality data provided in the app is accurate and reliable.
Solution: Collaborate with market experts to source reliable data and implement a feedback system for continuous updates.
4. **Network Connectivity Issues:** Users in rural areas may face connectivity problems that hinder app usage.
Solution: Optimize the app for low bandwidth and provide offline access to essential features.

