

IDEA TITLE

Introducing the Smart Crop Disease Prediction and Management System

- An innovative solution designed to help farmers effectively tackle crop diseases.
- This system uses artificial intelligence to analyze crop images and disease outbreaks, and provide farmers with practical insights and treatment recommendations.
- Plus, with partnerships with pesticide companies



IDEA TITLE

***KEY BENEFITS:**

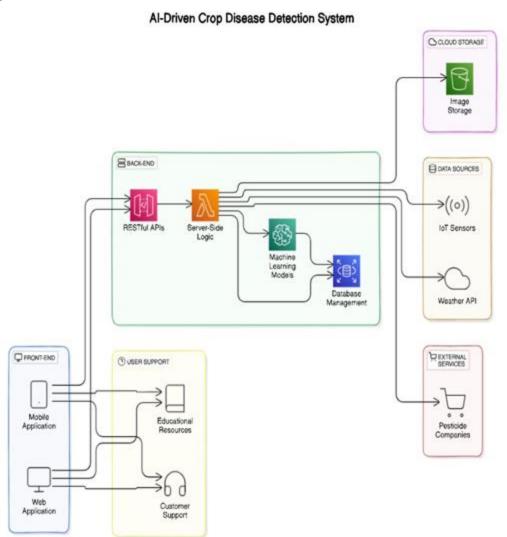
- Image Analysis and Disease Detection
- EnvironmentalData Integration
- Actionable Insights and Alerts
- Partnership with Pesticide Companies
- User Training and Support

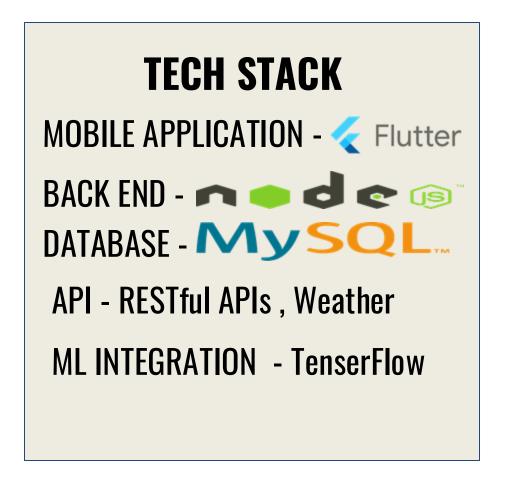
♦ How It Addresses the Problem:

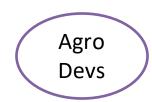
- > Early Detection
- Data-Driven Decisions
- > Streamlined Access
- Education & Support



TECHNICAL APPROACH







FEASIBILITY AND VIABILITY

1. Feasibility:

The system is viable due to accessible

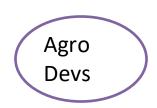
AI and smartphone use.

1. Challenges:

- 1. Poor image quality can lead to inaccuracies.
- 2. Farmers may resist adopting new technology.
- 3. Different farming conditions can affect predictions.

2. Solutions:

- 1.Improve image quality and provide capture tips.
- 2.Offer training to build user trust.
- 3. Create adaptable algorithms for various conditions.



IMPACT AND BENEFITS

- Early Disease Detection: Quick identification of crop diseases to reduce loss and boost yield
- Smart Decisions: Real-time weather and soil data optimize farming practices.
- Proactive Risk Management: Alerts and insights help prevent issues before they escalate.
- Direct Access to Pesticides: Easy purchase of recommended pesticides through the app.
- ➤ <u>Empowering Farmers</u>: Tutorials and support enhance farmers' knowledge and confidence.