



Codeit

# AGROW +

THE FARMER'S ASSISTENT



# Smart Crop Advisory System For Small and Marginal Farmers

Team Name : Codeit

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# Introduction

This platform provides quick digital solutions for farmers to manage crops, markets, and risks effectively.

- 👉 **Disease Detection:** AI-powered crop scanning for instant diagnosis.
- 📊 **Market Rates:** Live mandi prices across Punjab.
- 🌳 **Carbon Credits:** Calculate credits from trees and connect with buyers.
- ⚠️ **Disaster Alerts:** Weather warnings and disaster management tips.

**Goal:**  
To make farming smarter, safer, and more profitable through technology.

# Technologies used



**JavaScript ( ES6+ )**

**Node.js & npm**

**Tailwind CSS**

**VS Code**

**HTML5 & CSS3**

**Type Script**

**Vite**

**React.js**

# Feasibility

- **Technical:** AI-based plant disease detection (works on local crops like wheat, rice, cotton, maize).
- **Operational:** Farmers in Punjab are digitally active; app must support Punjabi, Hindi & offline mode.
- **Legal/Policy:** Must comply with India's DPDP Act (2023); carbon credit claims need government/certification body tie-ins.

# Viability

- **Market :** Punjab = India's grain bowl (major wheat & rice producer); farmers lose 20-30% yield to diseases.
- **Competitive Edge :** Few apps serve Punjab with all-in-one features (disease + mandi + carbon credits + alerts).

# Impacts & Benefits



## Impacts

- Early detection prevents crop loss.
- Promotes sustainable farming .
- Agritech adoption among youth and farmers.
- Increases India's food security.
- Lowers environmental damage.

## Benefits

- Higher crop yield & better quality product.
- Increased farmer income & lowers financial risk.
- Cost savings on unnecessary chemicals.
- Improved export potential of Punjab's crops.
- Long-term soil health & water conservation.

- Image based detection
- User Friendly Interface

- Treatment Suggestion
- Crop-Specific Advice

## Disease Detection

- Knowledge Sharing
- Early Warning

- AI Powered Identification
- Time Saving

- Real-Time Prices
- Market Comparison

- Informed Selling Decisions
- Fair pricing

# Market Rates

- User-Friendly Display
- Customer Notification

- Historical Price Data
- Crop-Specific Information

- Tree Selection
- Carbon Calculation

- Verified Buyers
- Buyer Details

# Carbon credits

- Earning Estimation
- Sustainability Awareness

- Easy Monitoring
- Progress Tracking

- Weather Warnings
- Pest Alerts

- Crop-Specific Advice
- Safety Tips

# Disaster Alerts

- Localized Alerts
- Early Notifications

- Historical Data
- Emergency Contacts



Thank You!