

Requirements Gathering

1. Project Overview

Project Title: AgriCorus – Smart Agricultural Land Lease & Crowdfunding Platform

Agriculture in India faces critical issues like underutilized farmland, lack of investment access, and weak connections between stakeholders. AgriCorus addresses these challenges by creating an integrated, AI-enabled web platform where Landowners can list and lease idle agricultural land. Farmers can find land and raise crowdfunding for cultivation. Investors can fund projects and receive real-time updates and returns.

The system aims to ensure transparent transactions, real-time monitoring, multilingual accessibility, and AI-driven recommendations — helping improve land use, rural income, and sustainable food production.

2. System Scope

AgriCorus is currently being developed as an academic prototype under the final year project framework. However, the system architecture and feature set are designed for real-world scalability, including future cloud deployment, AI integrations, and mobile app support.

The MVP (Minimum Viable Product) includes:

- Core role-based dashboards (Farmer, Landowner, Investor, Admin)
- Land leasing and crowdfunding workflows
- Real-time updates from farm projects
- Multilingual interface and document handling (OCR)

3. Target Audience

The primary stakeholders of the platform include:

User Group	Description
Landowners	Typically rural residents or absentee landowners with fallow land
Farmers	Active cultivators seeking leased land and cultivation funds
Investors	Urban individuals, CSR bodies, and NRIs interested in agri-investment
Administrators	Platform controllers ensuring trust, verification, and compliance

Additional potential users:

- Agricultural officers for validation
- Wholesalers and logistics providers (post-harvest stage)

4. Modules

Module	Functionality
Authentication & Role Selection	Google-based sign-in and secure role allocation
Landowner Dashboard	List land, manage lease requests, view earnings, raise disputes
Farmer Dashboard	Search land, request leases, launch crowdfunding, upload project updates
Investor Dashboard	Browse projects, fund initiatives, receive ROI reports
Admin Panel	Verify users, monitor activity, approve fund releases, resolve disputes
AI Recommendation Engine	Predict crops based on soil type, yield analytics, price forecasts
Multilingual Interface	Auto-translation of UI + OCR of regional scripts in uploaded documents
Escrow & Dispute Management	Secure payments held until milestones are met; disputes logged and resolved
Post-Harvest Marketplace	Optional module for farmers to sell produce directly to buyers
Learning & Certification	Personalized micro-learning with certification modules for users

5. User Roles & Access

Role	Permissions
Landowner	Upload land details, verify documents, approve/reject lease, view payments
Farmer	Search and apply for land, raise crowdfunding, update project, use agri-tools
Investor	Fund projects, receive reports, interact with farmers via forum
Admin	Verify KYC and land docs, manage users, monitor fraud, release escrow, analytics

6. System Ownership

This system is being designed and developed as a student-led academic project under the MCA curriculum. All code and documentation are owned by the student developer and guided by a faculty mentor.

7. Industry / Domain

Agriculture, Agri-Fintech, Rural Technology, Crowdfunding

AgriCorus sits at the intersection of agriculture and financial technology, specifically focused on digitally enabling land leasing and rural investment.

8. Data Collection Contacts

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Name / Source	Role	Contact Info / URL
Mr. Dileep	Farmer, Palakkad	+91-XXXXXXXXXX
Mr. Sasi	Landowner, Kochi	+91-XXXXXXXXXX
Soil Health Portal	Government Soil Testing & Data	https://soilhealth.dac.gov.in
Agri-Investment Case Studies	Investor Insights & ROI Patterns	https://www.crofarms.com
Bhulekh Land Records	Landowner Records & Verification	https://bhulekh.in

9. Questionnaire for Data Collection

Here is the questionnaire to understand user needs across roles:

◆ Landowners

1. Do you currently lease your land to anyone?
2. What problems have you faced during land leasing?
3. Would you use a platform to list and manage your land lease?
4. Are you comfortable uploading documents online for verification?

◆ Farmers

1. How difficult is it to find agricultural land near your area?
2. Would crowdfunding help you cover cultivation expenses?
3. Are you comfortable with sharing regular updates of your farm work?
4. What kind of support/training would you need for using this platform?

◆ Investors

- Would you invest in agriculture if you could track progress and ROI transparently?
- What factors will influence your decision to fund a farm project?