Krishi Mitra 2.0 - Project Report

# Overview

Krishi Mitra 2.0 is a digital platform where farmers can either rent agricultural equipment or offer their own equipment for rent. The platform promotes sharing and supports small-scale farmers by eliminating the need for high investment in machinery.

# How it Works (Step-by-Step)

1. Home Page (No Login Required):

- User opens the app and lands on the home screen.  
- Can browse equipment based on filters like Equipment Type, Brand, Power, Location.  
- On clicking an equipment card, user is asked to login.

2. Login Page:

- Enter mobile number.  
- Receive OTP and verify.  
- If new user → goes to Registration.

3. Registration Page (New Users):

Fields:  
- Full Name  
- Mobile Number  
- Aadhaar Number  
- PIN Code & Address  
- Profile Photo  
- Password / Confirm Password  
  
Aadhaar KYC:  
- Option 1: Upload Aadhaar XML  
- Option 2: Aadhaar No. + OTP verification  
- KYC status: Verified / Pending

4. Dashboard After Login:

Shows two main buttons:  
- ले लो (Le Lo) → For renting equipment  
- दे दो (De Do) → For offering equipment

5. ले लो (Rent Equipment Flow):

- User browses equipment.  
- Clicks on 'View More' to see full details.  
- Sends Rental Request to owner.  
- Once accepted:  
 • User sees owner contact details  
 • Booking confirmed  
 • Details shown in Booking History

6. दे दो (Provide Equipment Flow):

- Clicks on 'दे दो'  
- Adds equipment with:  
 • Type, Brand, Power, Features, Photos, Available Days  
- Equipment shown in listing  
- Can accept/reject rental requests from other users  
- Upon accepting: Renter sees your contact info

# Features Summary

- Aadhaar-based KYC Verification  
- Equipment Browsing & Smart Filters  
- Secure OTP Login  
- Equipment Booking & Rental Requests  
- Owner Approval System (Accept/Reject)  
- Contact Sharing after approval  
- Booking History Tracking  
- SMS/Voice Call Notifications

# Tech Stack

Frontend: HTML, CSS, JS, Bootstrap  
Backend: Node.js or Python (Flask/Django)  
Database: MySQL or SQLite  
KYC Service: Aadhaar XML / Third-party API  
Hosting: Railway.com  
Design: Figma

# User Roles

1. Farmer (User):  
 - Can rent equipment  
 - Can provide equipment  
  
2. Admin (Support):  
 - Handles fake listings  
 - User issues & verification

# Security

- Aadhaar KYC ensures verified users  
- OTP-based login  
- Contact info visible only after approval  
- All data stored securely

# Conclusion

Krishi Mitra 2.0 is a farmer-first platform aimed at solving the problem of expensive equipment access by enabling peer-to-peer renting in rural India. With a simple and farmer-friendly UI, it promotes trust, sharing, and affordability.