REQUIREMENT GATHERING

Date: 11-12-2025

1. Project Overview:

AgroHub is a web-based agricultural service platform designed to simplify and modernize farming operations by integrating machine rentals, second-hand equipment purchase, workforce hiring, learning tutorials, digital agreements, and insurance services into a single system. It aims to solve the difficulty farmers face in accessing equipment, skilled labor, and reliable rental processes. The main objective is to provide a centralized, secure, and user-friendly platform for farmers, equipment owners, and administrators to manage agricultural needs efficiently.

2. System Scope:

The system is proposed as a full-scale web application suitable for real-time usage. It includes multi-user login portals (Farmer, Owner, Admin), machine rental and purchasing modules, workforce hiring modules, learning support features, digital agreement handling, insurance management, and admin supervision.

3. Target Audience:

- Farmers

- Agricultural equipment owners

- Machine operators / skilled workers

- Administrators managing the platform

- Individuals involved in agricultural services

4. Modules:

1. Farmer Login Module

This module allows farmers to register, log in, and securely access the platform. After authentication, farmers can browse available equipment, hire workers, view tutorials, manage bookings, and complete rental or purchase transactions.

2. Owner Login Module

This module enables equipment owners to register, log in, and list their machines for rent or sale. Owners can update equipment details, manage booking requests, track machine status, and communicate with farmers.

3. Admin Module

The admin module provides full system control, including managing user accounts, verifying equipment listings, approving or monitoring transactions, overseeing insurance details, and maintaining overall platform security and accuracy.

4. Machine Rental & Purchase Module

This module allows farmers to view available machines, check real-time stock details, compare pricing, and either rent or purchase second-hand equipment. It also manages scheduling, availability, and rental duration.

5. Workforce Hiring Module

This module enables farmers to hire skilled workers or machine operators. It displays profiles, experience, contact details, and availability of workers, making it easier to find the right person for farming tasks.

6. Learning & Tutorials Module

This module provides step-by-step tutorials, guidelines, and instructional videos for beginners. It helps users understand machine operations, safety measures, and best practices for using agricultural tools.

7. Digital Rental Agreement Module

This module allows farmers and owners to generate and sign rental agreements online. It ensures transparency, legal clarity, and secure documentation for all rental or purchase transactions.

8. Insurance Management Module

This module provides information about equipment insurance policies and manages insurance details during rentals. It protects both farmers and owners by ensuring coverage for accidental damages.

5. User Roles:

- Farmers: Rent machines, buy used equipment, hire workers, access tutorials.

- Owners: List equipment for rent/sale, manage bookings, communicate with farmers.

- Admin: Manage users, verify equipment listings, approve transactions, monitor insurance and agreements.

6. System Ownership:

AgroHub is owned and maintained by the development team responsible for its implementation, operation, and continuous improvement. The team oversees system updates, user management, data security, and overall platform performance to ensure smooth functioning in a real market environment.

7. Industry/Domain:

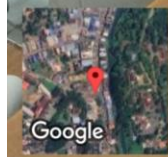Agriculture and Farm Management Systems

8. Data Collection Contacts:

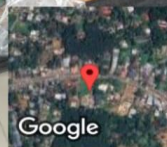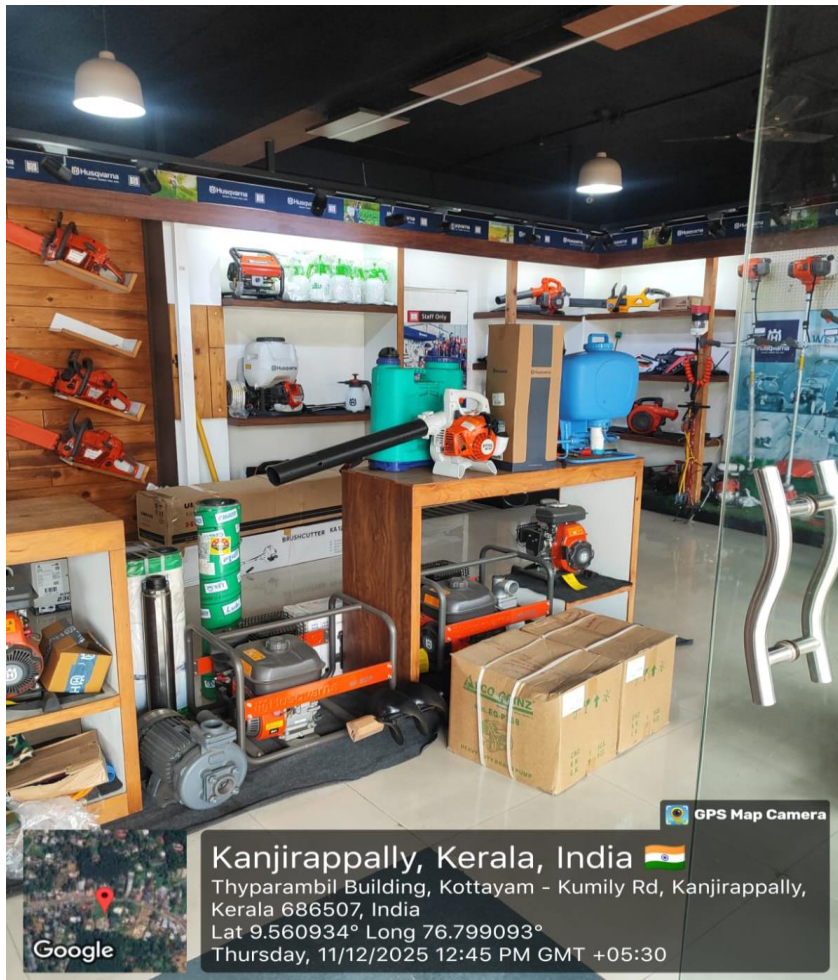Name: BIJU JACOB

Role: Tool Lessor

Contact: +91 9447344737

9. Questionnaire for Data Collection:

1. Do you frequently use rented agricultural machines?

2. What difficulties do you face while renting equipment?

3. Would you prefer renting machines through an online platform?

4. How often do you require skilled workers or machine operators?

5. Do you find it difficult to locate or communicate with equipment owners?

6. Would you use digital agreements instead of paper-based contracts?

7. How important is machine insurance during rental transactions?

8. Would learning tutorials help you operate equipment more safely?

9. Do you check weather conditions before planning farm work?

10. Would you trust an online platform that connects farmers and equipment owners?

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