Requirement Gathering

1.Project Overview:

AgroRent Hub is an online platform developed using Django, aimed at facilitating the rental of agricultural products, equipment, workers, and services. It addresses the inefficiencies in traditional agricultural rental processes by providing a centralized marketplace for farmers (customers) to rent from suppliers. The platform enhances inventory management, streamlines payment processing, and improves logistics for delivery and returns.

2.System Scope:

 AgroRent Hub is proposed as a full-scale implementation with the following objectives:

➢ Allow suppliers to list agricultural products and services for rent.

➢ Enable farmers to browse, rent items, and manage their rentals.

➢ Provide delivery boys with tools to manage delivery and return logistics.

➢ Offer admin functionality to oversee users and transactions.

➢ Incorporate OTP-based verification, secure payment processing, and notification alerts.

3.Target Audience:

The primary users of AgroRent Hub include:

➢ Farmers (Customers) who seek to rent agricultural products and services.

➢ Suppliers who list their products and services for rent.

➢ Delivery Boys responsible for handling delivery and return logistics.

➢ Administrators who oversee the entire platform and manage user accounts and transactions.

4.Modules:

Key modules in AgroRent Hub include:

➢ Admin Module: Manages user accounts, transactions, and system settings.

➢ Supplier Module: Handles inventory management, rental requests, stock monitoring, and financial overviews.

➢ Farmer (Customer) Module: Allows browsing and renting of products, payment processing, order tracking, and delivery boy selection.

➢ Delivery Boy Module: Manages assigned deliveries, updates delivery statuses, and reports defects.

5.User Roles:

➢ Admin: Manages all aspects of the platform, including user accounts and transactions.

➢ Supplier: Lists products and services for rent, manages inventory, and handles rental requests.

➢ Farmer (Customer): Browses and rents products, makes payments, and tracks orders.

➢ Delivery Boy: Handles delivery and return logistics, updates delivery statuses, and manages defect reports.

6.System Ownership:

Organisation

7.Industry/Domain:

The platform operates within the agricultural domain, specifically targeting the agricultural rental market.

8.Data Collection Contacts:

For data collection related to AgroRent Hub, I have contacted:

Name: Royal Rent Tools

Contact Information: Manna signal Road, Manna Rd, Manna, Taliparamba, Kerala 670141,Phone No: 9656769401

DEPARTMENT OF COMPUTER APPLICATIONS

9.Questionnaire for Data Collection:

i.What challenges do you currently face in managing agricultural rentals?

Managing agricultural rentals can be quite cumbersome because it often involves coordinating with multiple suppliers, ensuring timely delivery and return of items, and handling paperwork manually. Sometimes, it's hard to keep track of inventory availability and maintenance schedules, especially during peak seasons.

ii.How often do you rent agricultural products or services?

We rent agricultural products and services regularly, especially during planting and harvesting seasons. It varies depending on our specific needs at different times of the year.

iii.What features would you find most useful in an online rental platform for agriculture?

It would be incredibly useful to have a platform where we can easily browse available products, check their availability in real-time, book rentals online with clear pricing and rental terms, and track our orders from start to finish. Integration with payment gateways for secure transactions and notifications for order updates would also be great.

iv.How important is user-friendliness in such a platform?

User-friendliness is crucial because not everyone using the platform may be tech-savvy. It should be intuitive, with a simple interface that guides us through the rental process smoothly. Clear instructions and responsive customer support are also important.

v.What security measures do you expect to see in place for online transactions?

We expect robust security measures such as SSL encryption for data transmission, secure payment gateways that comply with industry standards, and measures to protect our personal and financial information. It's important to feel confident that our transactions are safe and secure.

vi.How do you typically handle delivery and return logistics for rented items?

Currently, we coordinate with suppliers directly for delivery and return logistics. It involves scheduling, sometimes multiple phone calls, and ensuring that items are returned in good condition and on time. It can be a bit hectic, especially when managing multiple rentals simultaneously.

vii.What are your main criteria when choosing suppliers for agricultural rentals?

**DEPARTMENT OF
COMPUTER APPLICATIONS**

We look for suppliers who offer quality products in good condition, competitive pricing, reliable delivery and pickup services, and excellent customer support. Reputation and past experiences with the supplier also play a significant role in our decision-making.

viii.How do you track the status of your rental orders currently?

Tracking rental orders typically involves making manual notes or calls to suppliers for updates. It would be much more efficient to have a system where we can log in, see the status of each rental order, and receive automatic notifications for key milestones like delivery and return.

ix.What improvements would you suggest for optimizing inventory management in such a platform?

Implementing real-time inventory tracking would be a huge improvement. It would help avoid overbooking, provide accurate availability information, and automatically update stock levels as rentals are booked and returned. Having alerts for low inventory and automated reorder suggestions would also be beneficial.

x.How do you handle maintenance and repair costs for rented items?

Maintenance and repair costs are typically covered by the supplier, especially if the item becomes defective during the rental period. Clear agreements on who is responsible for maintenance and repair, including any associated costs, are essential before renting.

**DEPARTMENT OF
COMPUTER APPLICATIONS**