



**AMAL JYOTHI**  
**COLLEGE OF ENGINEERING**  
( A U T O N O M O U S )

# AGRORENT HUB

20INMCA509 - Mini Project 2

Scrum Master

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AJC20MCA-I057

INMCA2020-25 S9

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# ABSTRACT

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AgroRent Hub is an online platform built with Django to facilitate the rental of agricultural products, equipment, workers, and services. It supports multiple user roles: Farmers (Customers), Suppliers, Delivery Boys, and an Admin. Suppliers can list items for rent, while Farmers can browse, add items to their cart, and rent them for a specified period. Delivery Boys handle the delivery and return of rented items, covering repair costs if defects are found.

Users register by selecting their role. The Admin manages all users and transactions. Suppliers have dashboards to manage inventory and stock levels. Farmers can view products, manage rentals, and make payments. Delivery Boys manage delivery assignments and update statuses.

Key features include OTP-based verification, secure payment processing, and low inventory alerts. Users receive notifications for orders and returns. Django ensures scalability, security, and efficient data management, with RESTful APIs enabling smooth frontend-backend communication. The platform is user-friendly and secure.

## **Functionalities by Module**

### **Admin Module**

- Manage Users: View, activate, and deactivate user accounts.
- Monitor Transactions: View and manage all rental transactions.
- System Settings: Configure system-wide settings and maintain overall platform integrity.

### **Supplier Module**

- Inventory Management: Add, edit, and delete products, workers, and delivery boys.
- Rental Requests: View and manage rental requests and product returns.
- Stock Monitoring: Track inventory levels and update stock to ensure availability.
- Financial Overview: View earnings, manage payments, and handle disputes.

### **Farmer (Customer) Module**

- Browse and Rent: Search and filter available products, add items to cart, and specify rental duration.
- Payment Processing: Securely process payments for rentals.
- Order Tracking: Track the status of current rentals and view rental history.
- Delivery Boy Selection: Choose a delivery boy for their orders.

### **Delivery Boy Module**

- Assigned Deliveries: View assigned deliveries and pickup details.
- Status Updates: Update the status of deliveries and returns.
- Defect Management: Report defects and manage repair costs.

### **Framework**

- Backend Framework: Django for secure and scalable backend development.
- Frontend: HTML, CSS, JavaScript for a dynamic and responsive user interface.
- Database: SQLite for structured data management

### **Technology To Be Implemented In Main Project**

#### **Demand Forecasting**

Objective: Predict future demand for specific equipment and services based on historical rental data, seasonal trends, and external factors.

Benefits: Helps suppliers manage inventory effectively, ensuring that popular items are always available and reducing costs associated with overstocking or understocking.





