

ABSTRACT

FEATHER FARM SOLUTIONS

This project presents an integrated poultry farm management system designed streamline farm operations, optimize resource management, and enable seamless business transactions with multiple hotelier stakeholders. The system offers functionality to manage batches of chickens, monitor their growth phases, and provide dynamic stock updates based on weight variations across batches.

The highlight of the project is the e-commerce interface for hotelier users, enabling them to place customized orders based on their preferred chicken weight (live or processed). Hoteliers can select batches with specific weight ranges (e.g., 1.0–2 kg), choose between fully dressed or undressed chickens, and enter the ideal weight for their requirements (e.g., 2 kg per chicken). Real-time availability checks ensure efficient order placement, and the system suggests alternative batches when necessary.

The admin dashboard provides comprehensive batch management, tracks order fulfillment, and adjusts stock dynamically based on sales, mortality, and growth updates. Additionally, automated alerts and notifications keep the admin and hotelier users informed about low stock, order status, and delivery progress.

The solution supports multiple stakeholders and batch processing, enabling flexible transactions with different hoteliers over time. It also ensures dynamic pricing based on chicken weight and supports partial order fulfillment when stock constraints arise.

This project aims to improve operational efficiency, ensure accurate stock management, and provide hoteliers with a transparent and customized ordering experience. With a focus on both precision agriculture and business management, the system aligns with modern farm-to-business workflows, ensuring seamless farm operations and maximizing stakeholder satisfaction.