AMAL JYOTHI
COLLEGE OF ENGINEERING
(AUTONOMOUS)

DAIRY CARE SYSTEM

23MCA245 - Mini Project

Scrum Master

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ABSTRACT

DAIRY CARE SYSTEM

Objective:

The Dairy Care System is a comprehensive web application designed to streamline the management and operation of dairy farms. This system helps farmers manage their livestock, track milk production, monitor health records, animal management and delivery of products. Built using Django, a powerful and flexible Python-based web framework, this system aims to enhance efficiency, productivity, and overall management of dairy farming activities. The Dairy Care System provides a robust platform to handle various aspects of dairy farming, from animal health tracking to milk production monitoring and other aspects of dairy farm operations, enhancing efficiency, productivity, and profitability through a comprehensive suite of features.

Key Features:

- User Authentication and Role Management
- Sales and Distribution
- Product and Inventory Management
- Payment Processing and Feedback Recording
- Analysis of Milk Production and Health Management

Mini Project Features:

- User Authentication and Management:
  - Secure Login/Register: Access for all user roles (Owner, Employee, Customer).
  - User Management: Admin capabilities to oversee and manage user accounts and permissions.

- Product and Inventory Management:
  - Product Search and Purchase: Customers can search for and buy products online using payment gateways like GPay or offline through cash on delivery with location sharing and delivery tracking.
  - Manage Products: Owners can add, update, and monitor dairy product listings.

- Farm Monitoring:
  - Feeding Details Collection: Employees record and manage feeding schedules and nutritional data.
  - Milking Equipment Maintenance: Ensures the proper functioning of milking equipment.
  - Condition Checks: Monitoring of milk pH levels.
  - Health Management: Doctors monitor and manage animal health, prescribe medications, and assign diets.

- Payment Processing:
  - Employee Wage Payment: Manage and process payments for employees.
  - Customer Product Payment: Handle transactions for customer purchases online (GPay) or offline (Cash on Delivery)

- Feedback and Analysis:
  - Feedback Submission: Customers can provide feedback on products and services.
  - Feedback Analysis: Owners analyze customer and employee feedback to drive improvements.

Main Project Features:

- Machine Learning Integration:
  - Milk Production Forecasting: Predict milk yield based on historical data.
  - Disease Detection/Prediction: Identify and predict potential health issues in animals.

- Delivery Management:
  - Milk Delivery to Society Centers: Efficiently manage deliveries to local society centers, integrating with tracking systems.

Technologies and Tools Used:

- Frontend: HTML, CSS, JavaScript
- Backend: Django
- Database: MySQL
- Operating System: Windows
- IDE: Visual Studio Code