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Milk Agency

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ABSTRACT-

In today's digital era, managing traditional business processes efficiently through technology is essential. This paper proposes the development of a Milk Agency Management System that provides a structured, secure, and user-friendly platform for both administrators and customers. The system features two distinct login modules: one for the admin and another for customers. The admin can manage customer profiles, milk distribution, payments, and delivery schedules, while customers can place orders, view delivery status, and track payment history. The system simplifies milk distribution operations, enhances service reliability, and ensures accurate record-keeping. The proposed solution reduces manual workload and errors, providing a seamless experience for both parties.

Keywords- Get pop-notification about milk fat and amount, Admin-Customer Login, Payment Management.

I. INTRODUCTION

Milk agencies often rely on manual processes to handle daily operations like order management, delivery scheduling, and customer tracking. This can lead to inefficiencies, data inconsistencies, and customer dissatisfaction. The proposed Milk Agency Management System automates these tasks by providing a digital platform with separate login facilities for administrators and customers. The system enables easy tracking of customer orders, milk stock, and payment histories. It also improves customer engagement by offering an intuitive interface where customers can place orders and monitor delivery updates. This project aims to enhance milk distribution processes, reduce human errors, and improve overall service quality.

Also there we provide separate login for Admin and Customer. It very helpful for check daily milk collection for admin and also helpful for customer to check the daily price of the milk. Customer get there milk fat and price of there milk through the pop Notification.

II. LITERATURE SURVEY

The application of milk agency, particularly for farmers and milk agencies, has gained significant attention. This section reviews key studies that inform the proposed system.

2.1 A Milk Management Automation K. Patel et al. (2019)

They proposed a dairy management system focusing on stock tracking and order processing. The system improved milk production record-keeping but lacked user-specific login differentiation.

2.2 Multi-User Management Systems P. R. Sharma et al. (2021)

developed a food delivery management system that provided separate modules for users and managers. It demonstrated the effectiveness of distinct login panels in managing roles efficiently.

2.3 Secure Login Practices in Web Applications V. B. Joshi (2020)

Noureldin highlighted the importance of secure, role-based login systems in ensuring data privacy and process integrity. Their study supports implementing separate authentication mechanisms for different user types in web-based platforms.

These studies indicate that integrating role-specific logins and automating business processes enhances system security and operational efficiency.

III. METHODOLOGIES

The Milk Agency is developed through a Requirement Analysis Identify the key functionalities for the admin and customer comprising eight phases, ensuring a comprehensive approach to provide the info about there milk via SMS and also payment getaway.

Phase 1: Requirement Analysis

Identify the key functionalities for the admin and customer, including stock management, order processing, delivery tracking, and payment logging.

Phase 2: System Design

Design two login panels: - Admin Login: Manage customers, view order details, track payments, manage milk stock. - Customer Login: Place orders, track deliveries, view payment history.

Phase 3: Technology Stack

Frontend: HTML, CSS, JavaScript - Backend: Python (Flask/Django) - Database: MySQL.

Phase 4: Database Design

Separate tables for admin, customer, orders, milk stock, and payments with appropriate relational mapping.

Phase 5: Development

Implement login authentication with password encryption and session management. Develop CRUD operations for admin and user dashboards.

Phase 6: Testing

Conduct unit and system testing to ensure proper order placement, delivery tracking, and secure logins.

Phase 7: Deployment

Deploy the application on a local server or cloud-based platform accessible to both admins and customers.

Phase 8: Feedback and Improvement

Collect user feedback to improve the interface and add features like SMS notifications and payment gateways in future versions.

IV. COMPERATIVE ANALYSIS

Feature	Manual System	Existing Systems	Proposed System
Multi-User Login	No	Limited	Yes
Real-Time Order Tracking	No	Partial	Yes
Automated Payment Records	No	Partial	Yes
Admin Stock Management	Manual	Partial	Automated
User-Friendly Dashboard	No	Somewhat	Yes

V. FINAL RESULT

The Milk Agency Management System successfully meets its objectives by providing an efficient, user-friendly platform for both administrators and customers. Admins can now manage inventory, track payments, and monitor deliveries with ease, while customers enjoy seamless order placement and status updates. The system’s structured login mechanism ensures data privacy and enhances the reliability of milk distribution operations.

The deployment of this system has significantly reduced paperwork and improved customer satisfaction through timely deliveries and transparent payment tracking.

VI. CONCLUSION

The Milk Agency Management System offers a scalable, secure, and efficient solution to the traditional challenges faced by milk distribution businesses. By incorporating two separate login panels for admins and customers, the system improves operational management and customer interaction. The platform’s ability to automate orders, manage stock, and track deliveries enhances service quality while reducing administrative workload. Future work will involve integrating online payment gateways, SMS notifications, and multi-language support to further enrich the user experience.

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