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SURVEY PAPER ON FARMER PRODUCTS AUCTION SYSTEM

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ABSTRACT - The goal of our auction system is to provide farmers with fair value for their products, while also offering consumers a wider range of investment options. Our platform addresses the challenges faced by farmers in selling agricultural goods by eliminating intermediaries. This enables farmers to directly engage with consumers and receive better prices for their produce. Additionally, our system offers time-saving benefits for customers and allows companies to purchase agricultural products in larger quantities without the need for middlemen. To access the system, customers will log in using their unique IDs and passwords, gaining access to a variety of products produced by the farmers. Interested customers can participate in auctions, where products will be sold to the highest bidder.

KEYWORDS: Agro Products, Android, Auction System.

I. INTRODUCTION -

Agriculture stands as a primary occupation in India, constituting a crucial pillar of the nation's economy. Despite its significant role in the country's economic development, the contribution of agriculture to India's GDP has been on a consistent decline. One contributing factor is the limited autonomy of farmers in determining the prices of their produce, as market forces dictate these rates. Additionally, the government establishes minimum prices for specific agricultural products on a seasonal or annual basis. To address these shortcomings, we are in the process of developing an Android application that empowers farmers to set their own prices per kilogram for their products. This price will then be applied based on the quantity desired by the customer.

The driving force behind this project is to establish a platform that enables farmers to secure rightful profits for their produce. Despite their dedicated efforts, many farmers find themselves in dire financial straits, leading to instances of despair, including suicides. Furthermore, inadequate storage facilities often result in significant wastage of agricultural products[1]. To mitigate these challenges, our aim is to eliminate intermediaries and connect farmers directly with buyers through our application. This approach ensures that farmers reap the full benefits of their hard work and also helps reduce food wastage, as bulk purchasers, including companies, will have direct access to the products.

II. MOBILE APPLICATION DEVELOPMENT

“Mobile applications (Apps) have emerged as a significant innovation in the mobile industry and are widely adopted. This new mobile technology not only disrupts the traditional mobile business model but also opens up new opportunities in the mobile market. Mobile app development is a rapidly growing phenomenon due to the widespread use of smartphones by end-users. The mobile app market is characterized by intense competition. Smartphones and apps offer users distinct advantages, such as portability, location awareness, and accessibility[4]. As smartphone computing power continues to advance and mobile apps remain a dominant force in digital engagement, apps have become a new frontier for conducting field experiments.

In the realm of agriculture, the industry is becoming increasingly time-sensitive and data-driven. To enhance productivity, it's essential to adopt information-based decision-making systems. Manufacturers and software developers have been aligning their products with agricultural use or creating specific solutions for the sector, supporting mobile phone technology for agricultural purposes. Information is a critical element in any agricultural activity, but its value is maximized when it's available in a timely and cost-effective manner and is presented in a suitable form and language.

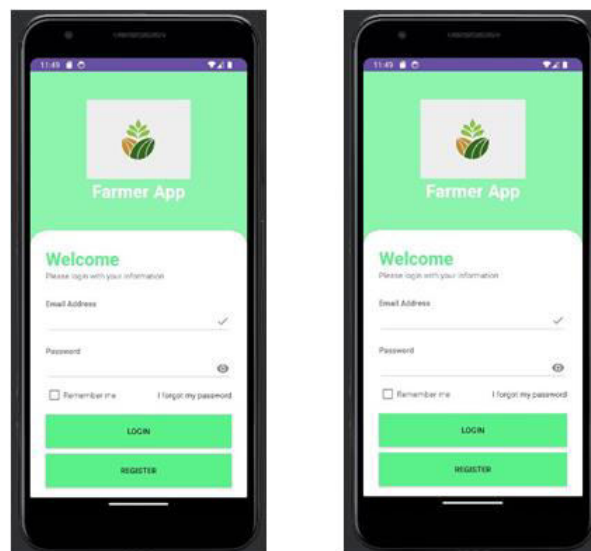
Information and Communication Technology (ICT) is one of the methods used to provide farmers with the necessary information at the right time. Farming activities significantly impact the quality and quantity of agricultural produce. Forecasting any issues, events, or factors in agriculture necessitates a deep understanding of the fundamental elements influencing the industry, as a substantial portion of the population depends on farming for their livelihood.”

III. AGRICULTURAL CHALLENGES

“The agricultural sector faces the challenge of providing the right services to both farmers and traders, ensuring that consumers can confidently purchase fresh, high-quality farm products. This commitment ensures that every element introduced and defined by the respondents becomes an integral part of the project’s development. Currently, there are numerous initiatives aimed at developing mobile Agri Apps for smallholders. The sustainability and effectiveness of these developments show promise, although empirical evidence of their impact on improving livelihoods remains limited. Persistent agricultural issues have been impeding national development. The primary solution to this challenge lies in adopting smart agriculture practices that modernize conventional agricultural strategies. Many valuable applications and services fail to reach a wider audience due to inadequate marketing and a lack of available metadata about these applications. In essence, there is a significant need for effective product promotion and end-user education to ensure the sustainability of mobile applications. Multiple studies suggest that mobile phone technology plays a crucial role for farmers and supports crop production. Leveraging mobile phone technology in the crop farming value chain empowers small-scale farmers to access essential farming information, enabling better decision-making and increasing crop profitability[3].

IV. SYSTEM INFORMATION

“The adoption of mobile internet technology presents a valuable opportunity for farmers to directly sell their products to both consumers and food processing industries. This paper presents a mobile application designed to provide market information to farmers through an intuitive interface. The primary purpose of this mobile application is to serve as a fast and up-to-date information delivery system for farmers. Additionally, it offers native language support to simplify transactions for farmers. This mobile application accommodates farmers as both sellers and buyers, aiming to facilitate the exchange of agricultural goods and products. The underlying objective of this paper is to empower farmers in making informed decisions about buying and selling their agricultural produce. The inclusion of market prices from data.gov.in allows the system to maintain control over selling and buying prices [5]. Given the potentially extensive range of products available, the application incorporates various filters to streamline the browsing experience. It addresses the challenges farmers encounter when selling their goods and products, promising a user-friendly and enjoyable platform for selling agricultural products. The system enables farmers to sell their goods at fair prices, promoting transparency and equity in agricultural business transactions. Consumers, on the other hand, benefit from a wide selection of products, with the ability to choose according to their requirements and apply price filters. The inclusion of location as a parameter for both consumers and producers during buying or selling activities assists users in locating products near their current location[2].



V. ENGLISH AUCTION SYSTEM ALGORITHM:

An online auction is a method of conducting auctions via the internet and has gained popularity for buying and selling various products and services. The online auction system is designed to facilitate customers in acquiring and selling products at the best prices[6]. Its development aims to create a reliable, user-friendly, and efficient platform. Online auctions operate on a different business model where items are sold through competitive price bidding. This project draws attention to the commission charged by intermediaries in the distribution chain, which contributes to high inflation for consumers. In comparison to the investments made by farmers in harvesting their products, they often receive lower prices when dealing with middlemen. We will be developing an Android application tailored to assist farmers in rural areas to directly sell their products to end-users. The primary goal is to bridge the gap between farmers and end-users, resulting in increased profits for farmers and cost-effective, high-quality products for end-users, as they can make direct purchases from the farmers.

VI. CONCLUSION

Our application consists of three fundamental modules: Authentication, Product Details, and Bidding. The initial step is Authentication, where both customers and farmers need to register using their personal details. Access to the application is granted only upon successful registration. Once registered, users can subsequently log in using their registered mobile number and password. Moving on to the Product Details module, farmers have the ability to provide information and images of their products, which become visible to customers. Customers, on the other hand, can browse through the available products. To make a purchase, a customer must place a bid based on the predefined base amount and time set by the farmer. The product is awarded to the highest bidder. In the Bidding (Auction System) module, customers can submit bids for the products they intend to buy. Our application enforces certain rules, preventing bids that are lower than the amount specified by the farmer and restricting bids after the specified time period has elapsed. The customer with the highest bid secures the product. Both the farmer and the customer promptly receive notifications regarding the winning bid amount and bidder.

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