

Electronic Market for Farmers

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Abstract—The Covid-19 pandemic is a global health crisis that has affected everyone. One negative impact has left local farmers struggling to find other means of income besides marketing their produce to customers. It is difficult for customers to find good quality fresh goods in super markets. The objective of this paper is two-part: first, to evaluate the existing and manual system of how consumers buy their fresh produce during the Covid19 pandemic, to design the and implement the delivery system for local farmers to sell fresh product through mobile app.

Index Terms—Keywords.

I. INTRODUCTION

The economy of India is heavily dependent on agriculture. The production of food and other materials is heavily reliant on agriculture, which is a significant contributor to the livelihoods of a majority of the population. The economic prosperity of our country is closely linked to the growth and development of agriculture. India has demonstrated greater efficiency in cultivating food crops compared to other nations. However, the agricultural sector also confronts various challenges, limitations and challenges due to rapid population growth, increasing food demand, degradation of natural resources and concerns about climate change. Farmers have not yet grasped the new technologies, methods and policies applied in agriculture. Farmers have difficulty in knowing the market price of vegetables and products and farmers sell their products at a lower profit. The rapid growth of cell phones and the recent introduction of mobile communication services provide a means of overcoming the existing asymmetry of information. It also helps to bridge the gap between availability and supply of agricultural inputs and agricultural infrastructure. Thus, the increasing penetration of mobile networks and handsets in India offers the opportunity to make useful information more widely available. This could make the agricultural market more efficient and overcome some of the other challenges the sector is facing. Android is the latest popular platform for developing mobile apps and most people use Android smart phones more than others. Android smart phones are gaining popularity due to their low price and features. This app makes it possible for smart phone farmers to find real-time updated vegetable, fruit and other crop rates in each market in their location, farmers can sell their crops by location and those closest to farmers can buy crops from farmers at their nearest and these help farmers to sell their produce at a better price of. The app also provides features such as weather status display farming methods of specific crops, better interoperability and communication with experts. market prices of crops, guidelines for selecting pesticides and fertilizers, information on the most suitable seasons for growing different crops, rental of farm machinery directly from the

owner, new government agricultural policies and programs.

II. LITERATURE REVIEW

The government has the authority to establish a minimum price for crops or products of a certain quality. In order to improve governance, governments may periodically establish and revise rules and regulations. When detailed market information is available, the government can utilize load balancing techniques to reduce overall costs by minimizing market inventory. Traders who attempt to deceive farmers will face consequences and can be reported directly to the government through a complaint mailbox, which is recorded in a government database. The government also has the power to set minimum prices for crop and product quality (Hamibhav), and to update regulations as needed. In some cases, food costs have increased due to market shortages, with prices up to two to four times higher than normal, impacting the daily lives and budgets of ordinary people. By utilizing market insights, the government can predict and potentially address such situations before they occur. Load balancing techniques can also be employed to share resources among different markets and minimize product shortages, ultimately reducing costs. This platform can support both traditional and modern marketing methods.

III. PROPOSED SYSTEM

The system provides platforms including apps and government level website apps where farmers can sell their agricultural products to different levels of the marketing chain (marketers, merchants or consumers end use) with options. The platform is designed to assist farmers find the nearest market details about their current inventory and needs for specific products in less effort and with less time. Therefore, this analysis will help determine which market will provide the most profit for its crop/product. Here we provide a complaint box for farmers to file a complaint, for example assuming the trader offers a price lower than the price prescribed by the state for the minimum quality of crops/product, farmers can complain.

A. Advantages of Proposed System

1. Easily locate fertilizer stores
2. Easily view crop prices
3. User-friendly
4. Will update information on waste management companies agriculture.

IV. METHODOLOGY

The supplied shopping cart includes a camera that captures an image of the product and sends it to the pre-trained model, LCD display, and mobile app/ website. Product information will be stored in the database. Then each product information is displayed in the mobile app/ website. Customers can easily manage their shopping list on the mobile application/website according to their preferences. The purchase information is then sent to the wireless server and automatically generates an invoice.

V. SYSTEM DESIGN

♣**REGISTRATION PAGE:** The registration page is used to access our system by providing registration details. If you create an account by providing your email id and password, you can choose your own user name. user can register multiple times with a single username. Changes you make when you sign in will be assigned to this name, not your IP address. After you register or register, your information will be saved in the database. You can also sign up with an existing Google account; the database will collect pieces of information from Google itself.

♣**LOGIN PAGE:** In a mobile application, login or login is the process by which an individual accesses the application by identifying the user's credentials ,usually in the form of "username" "'user' and 'password', and today there is new technology by mail verification and OTP verification If you need help resetting your password we can help you by emailing OTP link or by email. Access Forgot Password Enter your mobile number or email.

♣**BUYER:** Farmers Market online helps you work with farms and food hubs in one place. Nurture and manage existing relationships, discover and create new ones, and bring online efficiency to your local food supply.

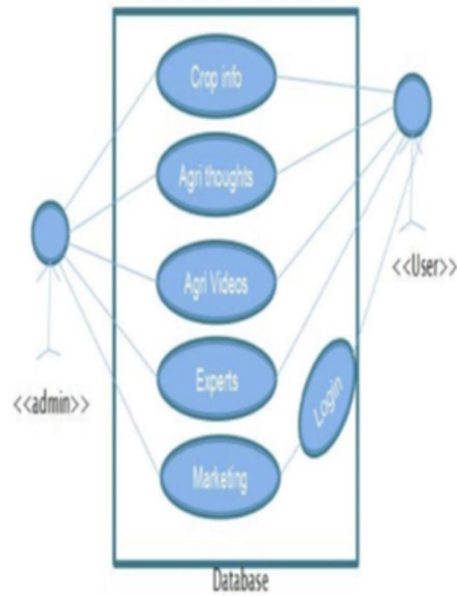


Figure 1: System Design

VI. RESULTS

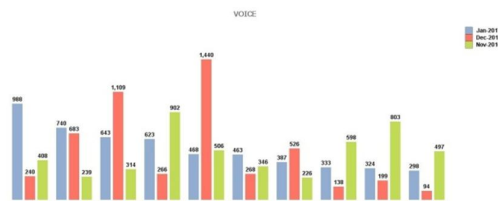


Figure 2: Manufacturing analysis

VII. CONCLUSION

The paper is to develop a mobile-based solution for farm management, This application helps to improve crop productivity and farm maintenance .Provide farmers with information on fertilizer, pesticide and insecticide manufacturers and traders Inform farmers about market news and prices.

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