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9353189468

E-Farming

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ABSTRACT:

Mobile phones are used everywhere, and android is that the primary OS (operating System) dominating the mobile OS market field with a market share of over 80% and most of the applications are liberal to download. We are targeting the horticulture sector during which smartphones may be accustomed to provide the farmer with the small print. The majority of the people relies on agriculture to survive. Many farmers are unaware of the skin world as well as farming's technological advancements. The majority of farmers have no knowledge what the prices of their crops and products are, therefore they sell them at any price. In today's worldwide world, agriculturists acquire their news from papers, periodicals, and television. So we've decided to build a platform for farms who use phones, where they can get critical real-time information on the prices of vegetables and fruits in each markets in Southeast asia so that they can sell their products at the appropriate prices.

KEYWORDS: Android, Mobile phones

I. INTRODUCTION

India is a member of the ASEAN agricultural community. Agriculture employs 70% of the people in our country. Agriculture accounts for one-third of our total worth. Agriculture's development has a lot to do with our country's commercial wealth. Our country is currently food grain personality. In the long run, indian agriculture would see a large number of farmers, primarily small-scale producers, and unable acquire data communication technology tools that could boost yield and lead to higher pricing for their crops and products. Data about nation units can be found in a variety of places, including textual media, sound / video aids, newspapers, internet, mobile, etc [1].

Many farmers in India appear to be unaware of the outside world as well as agricultural technological advancements. Most farmers are not getting any founded given the recent values regarding farming strategies at the largest, individuals need to advertise their wares at a rather low value, and because they get very little funds, they expect to take a loan from a bank or indeed the golem is that trend inside the today's world, each domain has golem-based applications.

Agriculture-related mobile apps are indeed the finest option for increasing the country's agricultural output. Farmers don't really appear to be benefiting from technological advancements in the agriculture industry, owing toward either illiteracy among the standard of length or ignorance about the site from which they would gain knowledge. Hence, most of the farmer's id being failing in the acquisition of the getable production rate. Lately farmer's units of measurement receiving numerous facts or knowledge about farming like seeds, crop alternative, crop methodology weather, fertilizer, pesticides, etc. From varied resources that are distributed on many different locations in step with its origin, its producers, or vendors [2-3].

The data having altogether totally different format and may have altogether totally different specific contents are heterogeneous in their structure and format. Thus it's required to develop a system from where needed the knowledge is obtainable to the farmer directly. New opportunities unit of measurement shaped by smartphone technology for farmers. Farmer's unit of measurement capable with a low-cost smartphone and the specific code to realize facilities that couldn't out there on their hands before. Inside the times of economic crisis, farming is popping into extra vigorous and much

additional important to be completed with efficiency throughout the time quantity. Several mobile applications square measure developed for acquisition of data inside the sphere, AgroMobile, Krushiville, etc. This paper deals with the analysis of accessible golem based applications that unit of measurement useful for the farm. Horticultural is a type of agriculture concerned with the arts, science, engineering, and economics of plant cultivation. Vegetation, fruit, vegetable, nuts, seed, herbs, seedlings, mushroom, algae, wildflowers, seagrasses, and non-food crops such as grasses and ornamental trees and plants are all included [4-5].

LITERATURE SURVEY

[6] An associate android application to shop for and sell Agri-products with Freshness Detection” explains to eliminate the role of middlemen from agricultural promoting so as to ensure honest worth to farmers to extend the profit margin of the farmers and make certain they get the proper worth for his or her efforts.

[7] “Impact of mobile phone on the standard and speed of Agriculture Extension Services Delivery” insists to unfold innovative farming technology on time with adequate speed. To solve the matter in reaching all the members of SCPCL with timely extension services.

[8]“Indian Agricultural Marketing” defines the economically backward and forward integration with agriculture as a semiconductor diode to the globally competitive production system in terms of price and quality. The opportunities provided by agricultural promotion ought to be tapped effectively by the marketers.

[9]“ The “Android-based solution for Indian Agriculture” describes how this may keep track of updates on various agricultural products, weather forecasts, agriculture news, including upgrades that increase agricultural yields and aid in farm management.

II. METHODOLOGY

Admin: Admin is the superuser of the system. Admin is accountable for maintaining and managing the website [10-14]. Admin is accountable for checking each single group action, from updation of produce by farmers to commercialism of turn out to patrons. Admin can log in to the system to transfer or modify any data, then once the changes area unit applied system can offer response like success, and therefore the Admin can logout [15-18].

Buyers: Online farmers market helps you’re employed with farms and food hubs beat one place [19]. Maintain and manage existing relationships, discover and build new ones and produce the potency of a web system to your native food sourcing [20]. Buyers enter into the system, then Buyers can get a welcome message from the system. Buyers request for info that is held on within the information and it’s retrieved whenever Buyers request [21].

Producer: Farmer one in all the foremost necessary half, providing ‘transportation facilities’ for delivery of finished turn out is underneath method. We tend to couldn’t think about any variable that is best suited to every individual user (from producers to buyers) [22-28]. However, we’ve got managed to think about straightforward various in which buyer will provoke transportation facility to admin or will avail the transportation all by himself. Since the information is held on by the admin of all the company therefore the admin will keep track of the delivery of the product to the customer. We have got additionally enforced looking out the company by the town of producers so that delivery of the product can become a lot of easier. Merchandiser enters into the system, then merchandiser can get a welcome message from the system. Once the merchandiser login to the system, he can get acknowledgment then the merchandiser adds all selling product info to the system that may held on in information [29-32].

III. IMPLEMENTATION

Android studio is made used as the development platform of this project because it comes loaded with features like Open-source platform, Support multi-functions, Rich tools to make interactive applications, Free software for developing applications. For the implementation purpose, java is

used for back-end logic because of its features like: Portability Independence, Robust, Great market reach [33-39].

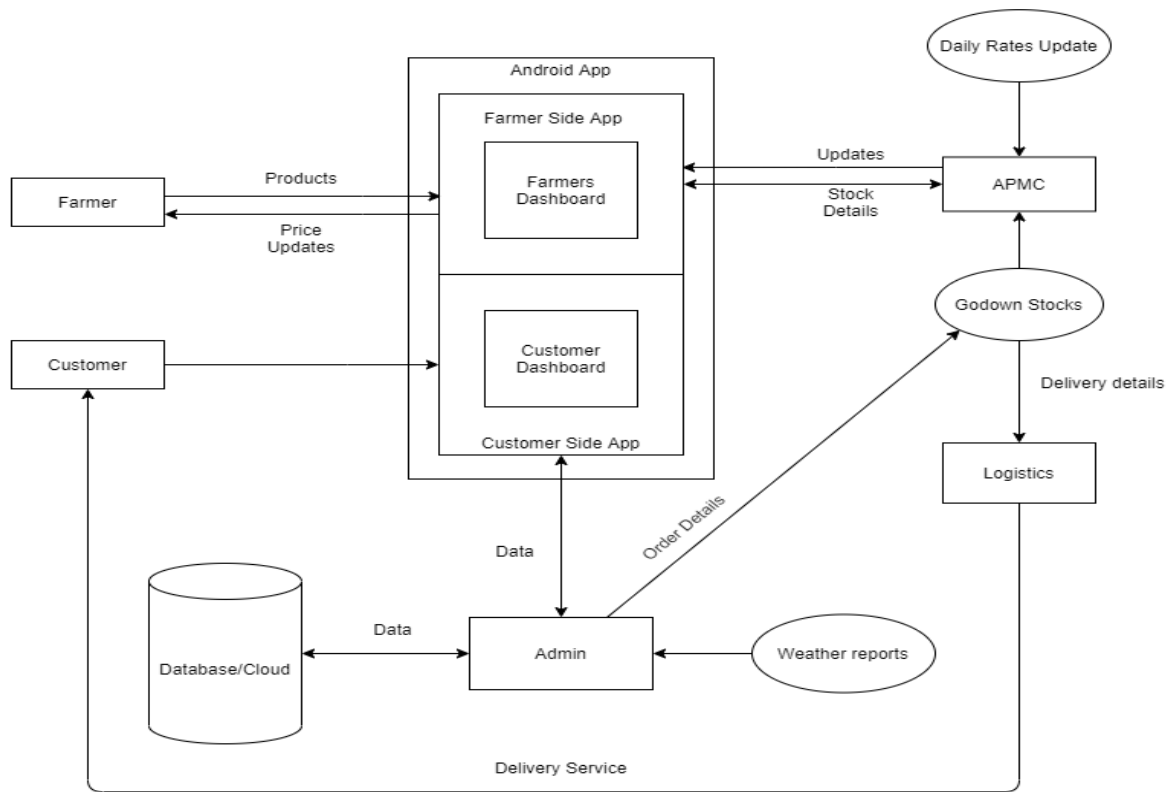


Figure1: Design System Architecture

IV. RESULTS

It represents overall flow of this Real Time Operating System, results and outer view with its brief discussions.

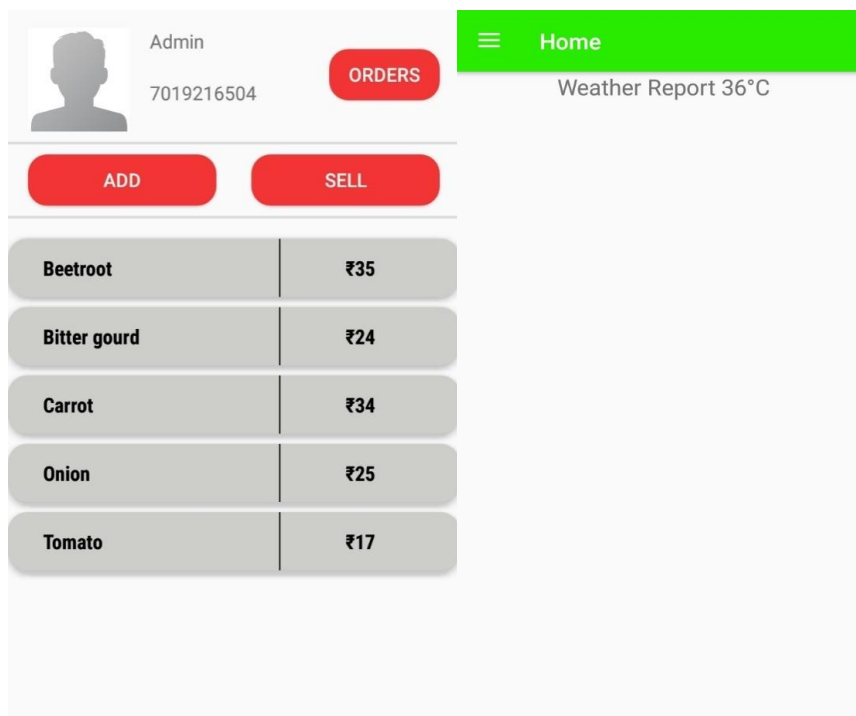
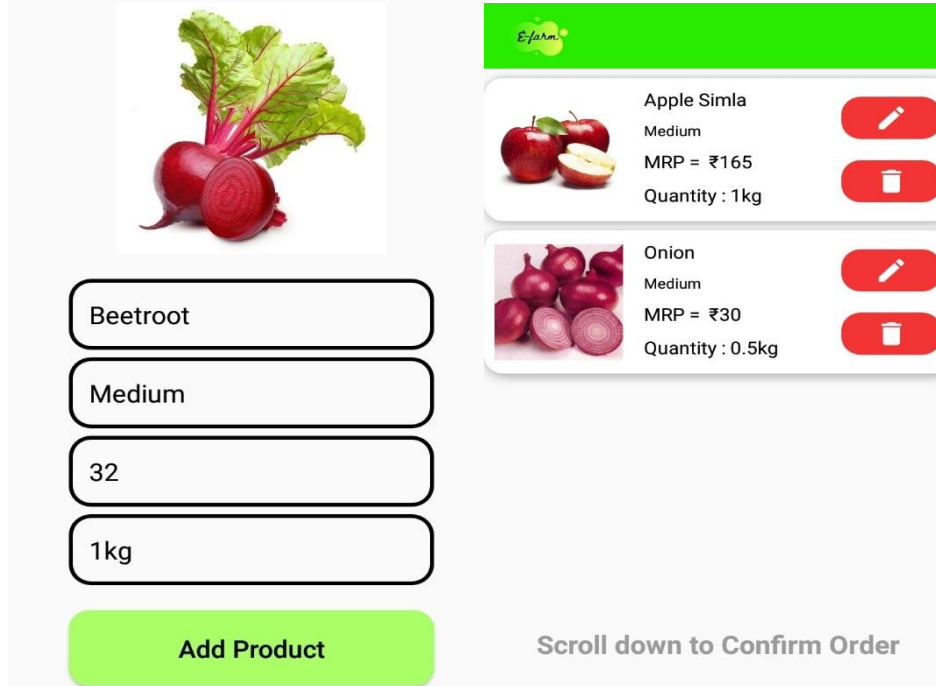


Figure 2: Admin home page **Figure 3:** Weather Report by APMC**Figure 4:** Selling product by farmer **Figure 5:** Buying products by Customer

V. CONCLUSION

The farmers can derive larger profit after they will create higher choices regarding wherever to sell their output when obtaining market costs for the range of native and distant markets. One step answer to any or agricultural info desires location-specific info delivery highly authentic and reliable information on agriculture. Based on the results obtained from the higher than, the subsequent conclusions were made: The majority of farmers within the state or country aren't aware that mobile phones are often accustomed conduct business and receive info. Mobile phone prices ought to be lowered to modify the majority of farmers for having access to this info regarding the agriculture business among the state or country. The government ought to additionally conduct workshops/seminars to make awareness for the farmers on the way to avail these advantages.

VI. FUTURE WORK

This expert system or interface will need to be researched further for implementation. Hence future of this task lies in developing the actual system schema and adding extra new functionalities which may be implementation specific. The proposed interface can overcome the language barrier which are main challenges of growing the ICT (information and communication technology) also cost of development includes in speech recognition, text-to- speech. In future, the scope of this system or interface can be increased by adding extra various functionalities.

VII. ACKNOWLEDGMENT

We the authors of this paper would like to thank our guide Mrs. Kavya M for her input, advice and moral support in the process of preparing the paper.

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