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Agrostar: "Virtualization of Seed Supply Chain Management System".

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Abstract: As we all know; agricultural products are available everywhere in the country. Pick the proper supplier and corresponding buy a farmer may be a challenging task. Finding the availability of products, for example, the availability of seeds during a particular city shop is an extremely very difficult task for a traditional farmer. Not only are seeds available but also other Agri products like pesticides, herbicides, and tonics information are not easily available to farmers' hands. Hence, to beat this problem, we have used technical support and tried to create a web application that can be farm handy. By using this application farmers can check the availability of Agri products everywhere country with an easy method. And overall, this may increase the efficiency of the supply chain of agricultural product

Keywords: Information, Availability, Efficiency, Supply chain.

I. INTRODUCTION

Agriculture is the foundation of the financial system, only agricultural development is nice, the complete economic system can steadily forward the economic development of our country's history suggests that only given an excellent development of agriculture and rural economy the full financial set-up can go to prosperity. in our country, Seed supply is among the most problem to be faced by many farmers in our history. Increasing in population many villages are facing this problem people must suffer from this problem they don't have a sufficient number of seeds for agricultural needs. Some farmers get seeds while others farmers can't so, there's a requirement for continuous monitoring, seed supply scheduling, and proper distribution.

Supply chains are primarily concerned with the flow of products and information in the middle of the supply chain for the purchase of building materials, the conversion of building materials for finished products, as well as the distribution of those products to eliminate customers.

The traditional seed supply system is an important backup system in agricultural production nationwide, based largely on a variety of farmers except in cases where the seed system relies on a variety of improved or introduced crops. supply chain management which means that control and communication can take place elsewhere and with other partners.

Today a series of information-driven, integrated systems allow organizations to reduce the value of assets and costs, increasing product value, increasing resources, speeding up marketing time, and saving customers. The true measure of success in a supply chain is how activities work together with the supply chain to build the number of buyers while increasing the profitability of all links supply chain. In other words, supply chain management is an integrated system to generate the value of the end-user. Chains of supply of various agricultural goods in India, however, are full and challenges arising from existing problems in the agricultural sector.

The country's Agri supply chain system is determined by various satirical issues such as governance of small/high scale farmers, segregated chains, lack of scale economics, low-level value processing/value addition, marketing infrastructure interventions, etc. Effectively manage the supply chain in conjunction with developing the relationship between goods and transportation within companies due to reduced inventory and better response time to customer requests for products and services. Supply chain management managers then enter the planning phase where other work areas are located companies come together to include manufacturing, purchasing, transportation, distribution, and effective marketing competition. This section is audible through communication, electronic data communication, and other technological advances which make the transfer of information more visible to all internal workplace companies.

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II. LITERATURE SURVEY

Currently, a manual system of maintaining data of seeds on the register is outdated now. As farmer has a time to stand in rush to read and check the desired availability of seeds.
learn from situations like these:
• India mart.com
• Seeds toplant.com
• Agri central.com

We first read two websites IndiaMart.com and agericentral.com and realized that India mart and agericentral.com are websites that sells a variety of products and makes them affordable.
online products that save their time. The customer can speak directly and buy the product This is what we saw in the second study of the Seeds site Agri Central You can also buy seeds and fertilizers online, but you will not have to deal with any type of farmer and storekeeper.
The important thing is for the farmer to go to the shops and buy the seeds. When is it available in seed shops? The difference in income from farmers
Farmer inclusion refers to when farmers are included in the total amount chain or part of a value chain where there is information sharing among buyers, sellers, processors, and farmers (Vis, 2012). According to Rosenberg (2012), inclusion from a corporate business perspective to understanding the fact that by improving the businesses of small business owners, firms develop their businesses. The icon is about seeing that by supporting the farmer to produce more and better raw materials and to improve their income; firms become preferred buyers who do they are reliable suppliers of a series of business firms. Lundy (2012) commented "it needs to be true about who can be included and who can be included in this number iketango! In some c, as it is possible to include smallholder farmers in the value chain while indoors in some cases this is not the case". In this phase, the past applies when, where and in what form crops, smallholder farmers, and large farmers11 are preferred. And, what factors cause the inclusion or exclusion of smallholder farmers in the value chain.

III. PROBLEM STATEMENT

Based on the literature survey it was noticed that India mart and agricultural l websites provide requirements of a farmer but it takes more time, so have developed and an Agrostar website for products are available in minimum time for farmers in their local areas and get information about agricultural-related products. To develop a website that will help check availability, anytime. Earlier there was a problem that seeds details were written on registers and find the availability from it as well as checking for the m administrator. If they're in the first shop seed is not available then we check in the second shop, and ever b o d y will be able to check it. Moreover, any updates of seeds check and confirmation are very difficult. Everyone feels like a time-consuming g to go and check. The easier way is, just to update the portal area-wise with details and upload related seed information, and. It will notify all the farmers and shopkeepers, registered with that website. In our existing system, all seeds information in local shops is done manually so it was more time taking for execution.

IV. OBJECTIVE AND SCOPE

objective:
The proposed system's objectives are to overcome all the limitations and drawbacks of the existing system to develop a web-based system that will provide the seed information from anywhere and anytime, and solve various seed-related problems of farmers. To increase productivity. Helps to solve the various seed-related problem of farmers. It includes Inventory, Quality, Quantity, and Price. Instantly communication between supplier and farmer.Better Production Selection. Short Time. The objective of the system mainly focuses on two things: Ease in finding the seed and helping farmers search shops. The system would help farmers find the nearest marketplace, suitable seeds, and other location-based services which help to reach there easier. Will be helpful as the farmer gets sufficient time to take preventive measures. Also, farmers need not search a lot for shops, as the details will be provided in the description.

In short, the system will be providing the following features:
1) User-friendly web by providing a simple user interface.
2) Fewer efforts, more produce by seed and nearby marketplace.
3)Check seeds information on online basics with ease of time.
4)Good way to build online seeds management so seeds and shops can find.
5) Notify future details like to availability of booked/demanded seeds
6) Proper seed management

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7) Proposed system is helpful for farmers and shopkeepers and society
. 8) Focusing on the changing consumer behavior, needs, and wants.
9) To make the digital marketing process is eco-friendly by avoiding paper for storing information.

Scope:

A lot of local-level shops are added. If the farmer responds well, the process of product supply will increase. Then home delivery may also be done. New Technology Replacement demand. The proposed system agrostar is predicted based on agriculture which has been around since the existence of Human beings but has continued to travel with new technology. Officially, it provides delivery of location-based services and data information regarding crops, labor, seed, and techniques using modern technology. thereby saving a lot of their precious time, money, and hard labor it'll be delivered for his or her benefits in an interface format and farmers will be able to get suggestions regarding the appropriate seeds and also contact contractors for seed or cattle. It'll display the choices to look at the varied seeds, and it'll be made so that additional features for better time interval and extra factors for improvement. together with the flexibility to search out the closest marketplaces, this project attempts to ease the efforts to locate the nearest market place too.

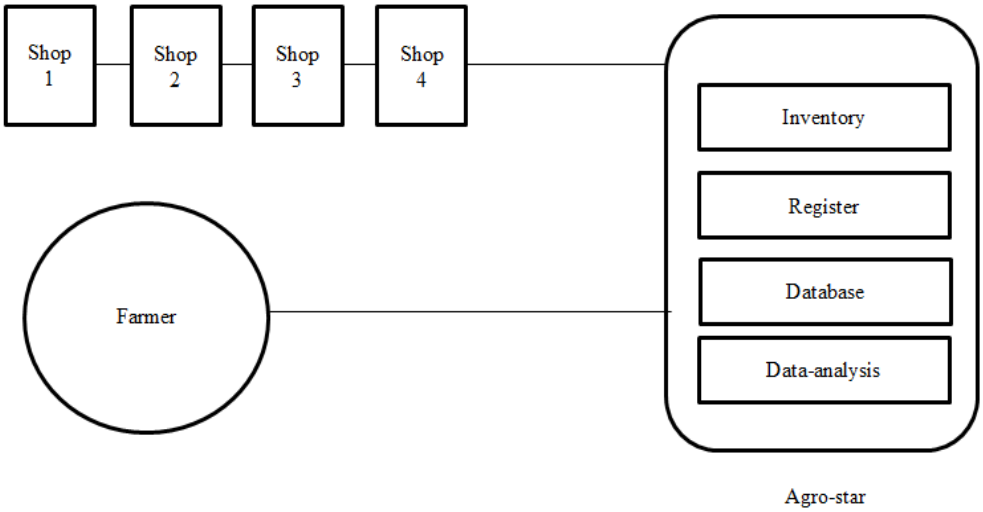
V. PROPOSED WORK

Our website will provide seeds to the local level to the farmers in the shortest possible time and all the information about which seed is available in which shop can be seen after logging in to our website by the farmer. So that the farmer is available for himself anywhere. The purpose of this project is to provide a system that will be more flexible. This helps to reduce the efforts of the farmer and shopkeeper to find out the available places for the seed. This system provides a friendly user interface; by using that farmer can easily handle the seeds and shop Information.
1. Order of Data: Seeds can get out of order in the traditional system. Need to up from ate time to time.
2. Complexity: It's very hard to go to shops to discuss the avail seedbeds seed, check for availability desired in upcoming days, and need to visit multiple times, with no any difficulty for getting information. Both as time consuming as well as harassing. The existing system is not flexible so there are problem-related to seed. The existing System depends on paperwork so it is difficult to handle, the purpose of this project is to provide a system that will be more flexible. This helps to reduce the efforts of the farmer and shopkeeper to find out the available places for the seed. This system provides a friendly user interface; by using that farmer can easily handle the seeds and shop Information.

Existing System:

In our system the farmer, admin, vendor, and databases are four main interdependent, interdependent approaches. After this, the store owner can send information to admin i.e. database for information to be updated by making changes to the database and how many seeds are available and how many to make available daily.
One of the best examples of indiamart's website, IndiaMART provides an effective and reliable platform to help businesses use the power of the Internet to increase their market access and commercialization. According to a KPMG report, the growth of internet penetration across India is helping companies move their businesses online and reach a larger customer base.

System Architecture:



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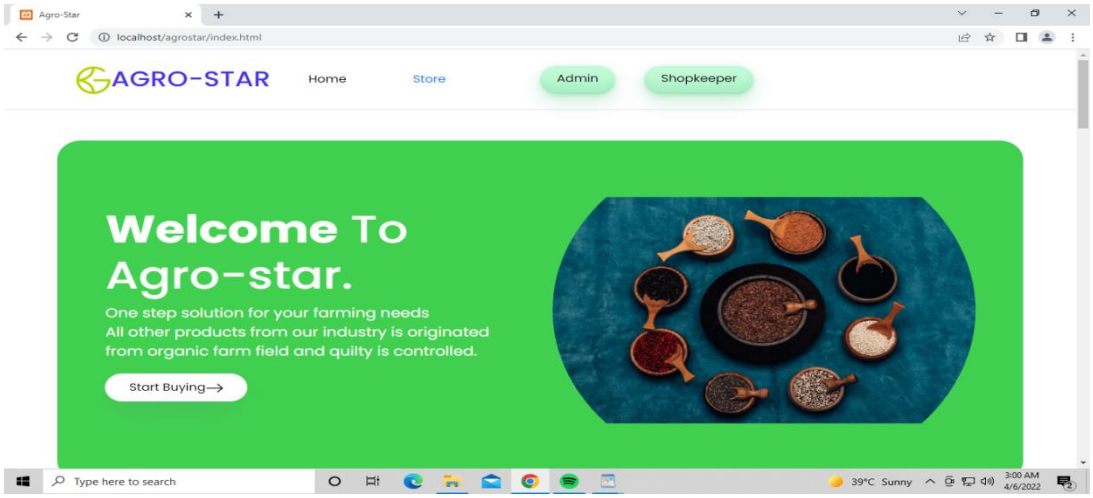
USER: View product details only. The private sector has begun to play a significant role in the seed industry over the past few years. Currently, the number of seed or seed trading companies is estimated at 400 or 500. However, private seed production companies have focused more on low-cost seed and low-cost seed markets. cereals, cereals and oilseeds are still managed by state seed companies. Private companies have a special place especially in maize and sunflower and cotton. However, in the case of vegetable seeds and horticultural plant material, the private sector is a prominent player. As the private sector has not been interested in getting into the production of wheat, paddy, other cereals, oilseeds and pulses, state-owned seed companies will continue to dominate grain, pulses and oilseeds among many others. years to come.

SHOPKEEPER: add stores and products on the website, the store owner runs small retail stores independently or with the support of small numbers from others. Record keeping and financial management The first step in training small retailers often involves helping store owners understand their financial status by keeping basic records. Generally, store employees are not shop owners, but they are often misrepresented. In lager companies a retailer is often referred to as a manager as the owner cannot manage the business by being a single seller so this term, can apply to large firms (especially, many stores) often and be a different function.

ADMIN: add stores and products to the website, the store owner runs small retail stores independently or with the support of small numbers from others. Record keeping and financial management The first step in training small retailers usually involves helping shopkeepers understand their financial status by keeping basic records. Often, store workers are not shop owners, but they are often misrepresented. In lager companies a retailer is often referred to as a manager as the owner can manage the business by being a single seller so this term, can apply to large firms (especially, multiple stores) in general and be a different function.

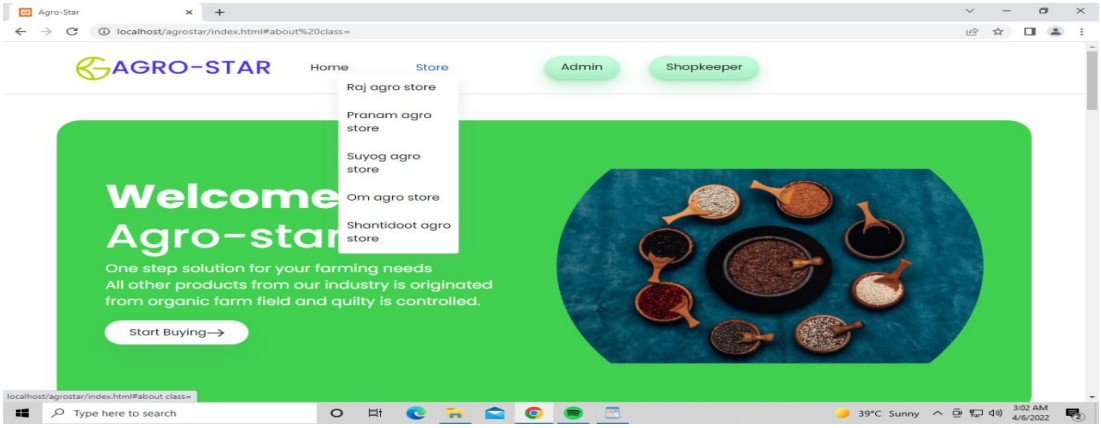
VI. RESULTS

1)Home:



The home page has two modules and two buttons. The farmer can see what seeds are in it.

2) Stores:



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The store took five shops in this module to understand which seeds are available in which store. Different types of seeds are available in each shop. Different types of seeds are available in each shop the farmer will get the seeds according to his needs.

VI. CONCLUSION

As discussed, the website created by us for farmers is very useful and the interface is very easy so that farmers can use it without difficulties we concluded that farmers can easily find information regarding agree-products on our agrostar website.

We aim to provide an online home delivery service to farmers in the future. Home delivery seeds will be available to farmers through our website.

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