



FARMERS AGRICULTURAL PORTAL

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Abstract: For many years, farmers in India have had a little freedom to choose markets and buyers for their products. All states in the country require that all farm products be sold and marketed through their jurisdiction. Farmers can increase margins by selling their products in owned markets without the involvement of middlemen. Agricultural Marketing in India has evolved from catering to local demand through market yards within the range of farm stones to having interconnectivity between markets to spread the value among farmers and consumers. A number of changes in the field of agriculture marketing of the country, such as electronic market, online warehousing, loans, contract farming and others, are creating opportunities for new formats of market which are more efficient at meeting market demand and supply. Infrastructure, technology, and capacity-building will be needed to implement these changes. This system also includes an interactive chatbot. The platform provides general queries for users, such as any questions regarding products or tracking packages. The website includes a live weather broadcast service for its visitors to see the latest weather conditions.

Key Word: : Middleman, Agriculture Marketing, Electronic Market, Chat Bot, Weather Broadcast

I. INTRODUCTION

Portal for farmers to sell products at better rates the aim of this system is to help farmers update farm product related information in the website. Farmer product management website application that helps farmers to get the best price for farming products. Farmers can also improve their profit margins. Farmers can sell their products directly to customers or deliver their products to the seller. Farmers can view the profiles of their workers and direct them as needed. Farmers can find information about agriculture on the Farmers Portal of the Department of Agriculture & Co-operation. A website that provides information on agricultural storage, crops, extension activities, selling the product, and interaction with the you can also reach out to a Buy from a wholesaler for a better price. Let's build a 'CHATBOT' Communication with the customer. Additionally, we are adding a weather broadcast report to this portal for farmer use. Direct contact between the farmer and the customer will result in the price of the products being affordable for the customer. Both the farmer and the customer will benefit, as the customer will save some money and the farmer will gain additional profit.

II. IMPORTANCE

A. With the project, farmer will be offered a better rate from a whole seller or from any user. Moreover, the most significant aspect of the project is that the farmer can sell his own product without the need of a middleman. The farmer can also deliver the product himself for more profit than by using an agent to deliver the product.

A "Chat Bot" is also integrated within the application for communications purposes between the user and the entire sales team.

B. Consumer: In our system, we call 'Consumer' to those people who take production of farmers as their input for their business or personal use, like hotels. In this system, there is login for these people, which is compulsory. After login, they will find list of available items they can buy from farmers like milk, green vegetables, flowers and many more things. They can give orders from their site by specifying their required quantity. They will be provided all their requirements at their place by the administrative system, which is the bridge between farmers and consumers Supplier: Similar to consumer there is compulsory login for supplier also. We call 'Supplier' to those people who are going to provide required material, products to farmers which farmers can use

for better production like fertilizer suppliers, machinery suppliers etc. After login to the system, they can enter details of their products, such as a list of fertilizers. This list will be visible at the farmer site. Now farmers can add these fertilizers into their bags and can buy them.

III.OBJECTIVE

As part of our project, we want to build a bridge of communication between farmers and their customers across the country so that they can exchange product related information and queries. This is the main challenge.

Most farmers are unaware of new technologies and trends used in this rapidly developing world, since they lack knowledge. A major aspect of our project's success is to offer fruitful benefits to both customers and farmers, providing the knowledge and covering the various aspects of resources that were unknown up until now. The project aims to:

The main objective of this project is to ensure a direct line of communication between the User and the farmer. A farmer can also sell his product directly to the customer and he will get the profit.

- Also, weather information is available to the farmer so he knows in what weather to grow the particular crop.

A user can also contact the bot to order a certain crop or buy the crop through "Chat bot".

IV.PLANNING

Information technology is used in this project, i.e. an online farm product to sell products at a better rate. In this project, the farmer is able to sell the product directly to the consumer without the need to go through an agent, as a result of which the farmer will earn a huge amount of profit. The farmer can also deliver the product himself, and thus there is another opportunity for a farmer to earn a profit. The application also has a "CHAT BOT" through which users can communicate with it. Also, there is a weather map for the farmer to use in order to check which crop will grow at a certain time in this project.

V. METHODOLOGY

The methodology helps to develop and test products by breaking them down into smaller components. We are working on our project one unit at a time. Like when we are dealing with front-end, we deal with how it looks, then after we've made it, we test it and have a conversation amongst ourselves about what to do next how it can be improved.

VI.SYSTEM ARCHITECTURE DIAGRAM

Website:

In the above website diagram, there is both farmer and customer or whole seller register & login option is available. In which farmer can add the product and also he can see the live weather in the website. While the customer or the whole seller can communicate to the farmer if he/she has any query related to farm products in the website..

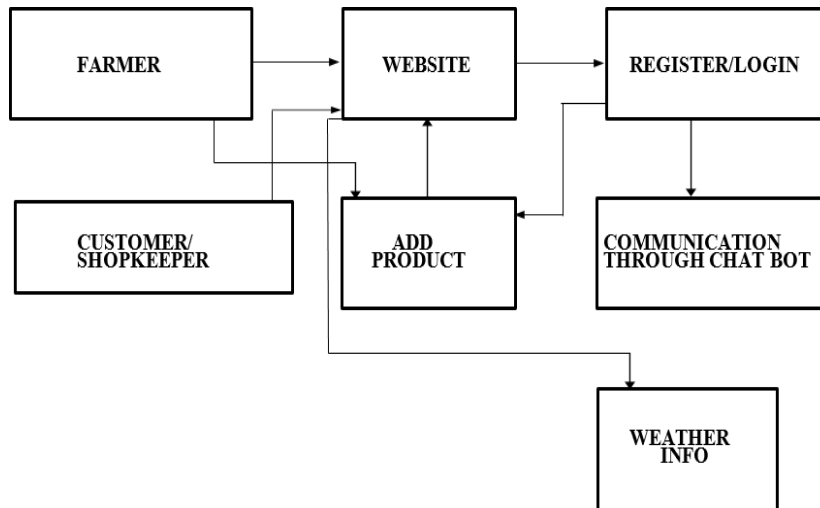
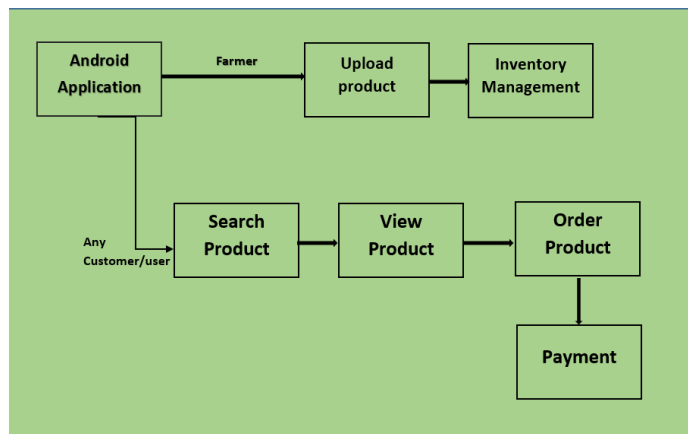
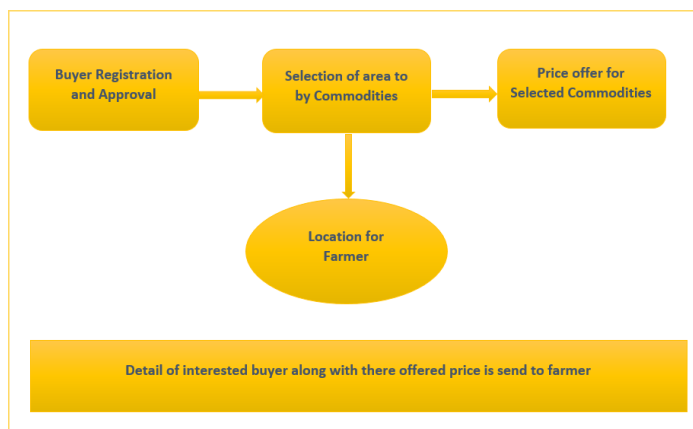


Figure 4: System Architecture

Application:

In the following application diagram, there is again a login and register option for both the farmer and the customer or whole seller. Both farmers and customers can also view inventory information here. After the customer or whole seller searches for the products they want, they can view those products, order those products they want, and make payment for those purchases in the application

**VII. CO-ORDINATION BETWEEN BUYER & SELLER****VIII. MAJOR FEATURES****Chat Bot:**

In a portal, a 'chat bot' can act as a virtual assistant for farm business. They can use it for conversational purposes, to get to know their customers, and to improve customer service, productivity, and efficiency. Chatbots are also useful in industries like agriculture, because they can assist the customer with queries about the product and do pre-set tasks that were previously only possible via strict calculations and old-fashioned human testing.

Chat bot For Farmer:▪ Time is saved.

- Communicate clearly with customers and possibilities.
- Attracting new clients.

Save time:-

A Chat bot will eliminate the need for customer service agents to waste their time answering the same questions over and over. You'll find it easy to provide a Chat bot with useful answers to all commonly asked questions about your farm, your products, or any other topics.

Attract possible new clients:

During the building of your chat bot, you can add a feature called User Characteristics, which allows you to collect information about the user. You can then use that information to help your bot segment these prospective new customers in order to make future outreach efforts more successful.

When, for example, your bot is asked about cheese products, the bot will remember that. Next time you announce a new cheese product you will be able to simply connect with the user and others who have shown interest.

Clearly communicate with customers and possibilities:

Chatbots are already being used by users to communicate. It's a time when they talk to family and friends. In keeping with the same familiar, informal style, a bot can create a sense of comfort for your customers while it answers questions, offers information, and prompts them to make a purchase.

Broadcasting weather:

This project aims to provide a report about the state of the atmosphere at a specific location place and time with respect to heat, cloudiness, dryness, sunshine, wind, rain, etc

In agriculture, however, the weather is the most important factor. During the growing season, it can affect crop development, amount to produce, pests, as well as all activities on the farm.

During these projects, weather reports are provided about the current weather and the nearby effects, benefits and possibilities for crops along with current weather details, so that farmers may learn from earlier situations that other farmers have experienced.

This project will also tell the farmer what can be planted during the current weather conditions, as well as alert the farmer of bad weather conditions and how they can protect their crops.

IX.OUTCOME

This project has a major outcome for the farmer in that he can sell his product by himself at a better rate and the entire profit will go to him. Additionally, the farmer cannot use the services of an agent and has not given any amount to the agent. He can also deliver the product himself and earn more profit.

India, a developing country, places a high rate of emphasis on agriculture. Agricultural information technology allows producers to make better decisions and yield better results

X. FUTUER SCOPE

The portal can be further enhanced by adding more features, where retailers will be able to market their agricultural products such as fertilizers and agricultural tools, etc.

The portal could be modified to provide farmers with the capability to export their products to other countries. One additional feature may enable buyers to view the location of farmer products.

XI.CONCLUSION

The agriculture is of great importance especially in a newly emerging country like India. Using information technology in agriculture can change farmers' decision making process, which might lead to a better yield. We will suggest to the farmer that with the help of this project they can make a better profit by selling their product directly to the customer or a user. As well as talking about his own delivery, we also discussed that he can get a better rate by delivering the product himself. In this case, the farmer will profit more by delivering the product himself.

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