VITHAI
(Virtual Organic Product Store)

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Abstract

The project titled "**VITHAI(Virtual Organic Product Store)**" is designed using android with Jdk1.8 as front end. The coding language used is Java, Php. This project acts as an important role for the farmer where they can sell their products and obtain their desired profits. The agriculture is basic reason of production of food and raw material, which eventually is reason of survival of the population. In Indian most of the population is dependent on agriculture. However, there is also need to review and revitalize the mechanism for updating the technology. In the upcoming years agriculture will see major changes. The main purpose for this project is to develop a mobile phone based solution that helps in farm management, leads to agricultural yield improvement and helps in care/maintenance of the farms. The large amount of crop is getting damage in the field due to the bacterial attacks and lack of information resources. Annually, such loss exceeds 40% in total. So, the paper presented here suggest various ways in which a farmer can utilize on their handsets using this application, to assist them for relatively better cultivation and merchandise. Our proposed application will provides the details about customer and farmer and also it avoids the third party buyer problem which cause problem for farmers.
Keywords: social distancing; COVID-19; human detection and tracking; distance detection

1. INTRODUCTION

This is the application which is considered to be useful in Agriculture System. Usually the agricultural product is purchased from the farmers at a low price and sold to the consumers at relatively very high price because of a large number of middlemen involved.Direct contact between the farmer and retail seller or wholesaler can reduce the number of middlemen involved in the marketing chain. As this system more helpful to increase productivity of crops and indirectly to increase GDP of India reduce poverty.

These days, cell phones and, especially, cell phones are getting to be distinctly all inclusive and ubiquitous. Gartner1, the world's driving data innovation research and consultative organization, predicts more than 500 million cell phones to be sold in 2012. Among those, the cell phones working framework piece of the pie is anticipated to be going by Symbian (37.4%), Android (18%), BlackBerry (13.9%), and iPhone (13.6%), with Android being the quickest developing. The scope of utilizations in the quickly developing business sector of projects for cell phones change from customers for web based saving money to applications for observing wellbeing conditions, from games wagering applications to individual schedules.

Cell phones, for example, cell phones and tablets have turned out to be exceptionally helpful buddies in our everyday lives and, of course, additionally speaking to be utilized for working purposes. On the drawback, the expanded many-sided quality of these gadgets and

additionally the expanding measure of touchy data (private or corporate) put away and prepared on them, from client's area information to certifications for internet keeping money and endeavor VPN, raise numerous security and protection concerns. In recent years, the emergence of smart phones has changed the definition of mobile phones. Phone is no longer just a communication tool, but also an essential.

part of the people's communication and daily life. Various applications added unlimited fun for people's lives. It is certain that the future of the network will be the mobile terminal.

Now the Android system in the electronics market is becoming more and more popular, especially in the Smartphone market. Because of the open source, some of the development tools are free, so there are plenty of applications generated. This greatly inspired the people to use the Android system. In addition, it provides a very convenient hardware platform for developers so that they can spend less effort to realize their ideas.

As the smart phones and Android system getting popular, the operations like listening to music, watching videos, tweeting and some others can be moved from the computer to a phone now. The applications on the market today are mostly commercial applications, and contain a large number of built-in advertising. If the user prefers to remove the built-in advertising, a certain price must be paid to reach that and this is not convenient. Meanwhile, because of the unfair competition of IT, many applications built illegal program to steal user information and cause some damage to user's personal privacy.

Sometimes, users will pay more attention to the user experience of software. Therefore, the development of the application can not only be limited to the function, more attention should be paid to the user's experience. After studying some previous Android applications and access to large amounts of materials, we utilize the Java language, the Eclipse platform, Android ADT and the Android SDK to develop these three mobile applications. These systems have a nice interface and smooth operation. These Apps won't steal any personal information, but can exclude useless information and bring a wonderful user experience.

2. PROPOSED SYSTEM

This Android Application creates the communication between the farmers and customers. In this, there will be a separate page for both farmers and customers. In that, there have the platform to register the farmers or producer along with their personal profiles and the product details. And the customers also can have their registration process; this is done in-order to look after the product updated by the farmers or the producers. Next then, the farmers have a module to update their product details such as, product name, product quantity, product price, selling location and the respective farmer's contact details. This can be viewed by all customers who are looking for the particular product. For the convenience of the customers, there will be a search box at the top. The products will be viewed in the list view then if we click that the detail of the particular products will be shown along with that the details such as how that particular product is cultivated and the benefits of that product will also be displayed in that page. This will be displayed in the both the language such as English and Tamil. The proposed application provides better relationship between customer and farmer. This Android app is to enhance transparency in the agriculture commodity marketplace by providing market price information, facilitating collective buying of inputs and collective selling of produce. Also we facilitate SMS service which send the crop

information to their phone over message service. Area based customer selection is also there in our application

☐ There will be a direct communication between the farmer and the traders.

☐ There will be the details about the product in list which consists of the price, quantity and the location.

☐ No need for third party vendor.

☐ Easy usage environment.

☐ Farmer may get right money for the crops.

☐ Efficient.

☐ SMS notification

3. MODULES

3.1. Home Page

Our home page displaying two activities namely,

- Farmer Page
- Customer Page

These two activities carry on the whole process of our application.

3.2. Customer Page Implementation

- In this module First the customer should register their details in registration panel.
- Then customer comes under the authorized person. So customer will able to login to their account.
- Then they have all the rights to view farmer details and notification.
- For this action we use SQLite data base for storing information.
  If the user give wrong city name it will check the city name and annotate the user to fill correct name.

3.3. Farmer Page Implementation

☐ Farmer module is also same as that of customer module.

☐ But the only difference is farmer have crops details in their page.

☐ They have the following options

☐ View Customer Details

☐ Customer Notifications

☐ Enroll crops

3.4 SMS Services

- In this module, the implementation of SMS service facility is added.
- For the implementation ,Sms Manager android class is used.
- It is important to provide permission for sending sms in aroid manifest file.
- If the user didn't get the permission exception will be throne.

4. CONCLUSION

Thus this proposed system provides better environment. It gives better result when compared than traditional system. It is very useful for the farmer and also to the customers to sell and buy the products. It also reduces the middle men involvement. Thus, the farmers get their profit as their desired and also the customer can buy the products at a desirable cost.

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