

# Interface for Farmer and Customer by Avoiding Mediators using Aadhaar Card QR-Code and Location based Distribution of Agricultural Products

## (Android Application)

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### Abstract

This paper discusses about android application to provide the affordable price to farmers by making use of the online market. This application ensure a platform for products obtained from agriculturing which provides direct communication between farmer and consumers. The application provides farmers and consumers to sell and buy the required agricultural products such as fruits, vegetables and etc without the involvement of mediators or middleman for the profitable price. The registration process involves both scanning of QR-code using Aadhaar card and manual method. This process enables both farmers and consumers to get registered. Both farmers and consumers will be more advantageously by using this application.

**Keywords:** Application, Registration, QR-code Farmers, Consumers.

## I. INTRODUCTION

Agriculture is a backbone of all countries. Marketing in agriculture and business in agriculture is to ensure fair and reasonable price for community of farmers. Farmers facing problems from growing crops till selling because of middleman. In spite of these problems farmers expect to get fair price for their product but not all the consumers will get the farm products at factory price. Both farmer and consumer will go through three or four middlemen this makes double the actual price. This corruption has been occurring for a long duration of time. In order to avoid this there has to be a direct communication and relationship between farmer and consumer. Since the world is becoming technical, android phones have been used by all even in rural areas. Everyone realized the importance of the technology and its growth embedded in the smart phones. Location based agricultural product distribution will be ensured by this application. It will avoid middleman between farmer and consumer which will save the money for both. Scanning of Aadhaar card QR-code helps in easier registration process. Manual method of registration is also available. This application involves three modules which are farmer module, consumer module and APMC module.

Farmer module consists of their own information including location, product details like vegetables, fruits and quantity of product available. Consumer module consists of their information and their product requirements. APMC module consists of farmer, consumer and product details pricings details. This application provides a platform to directly communicate to sell and buy the products at the affordable price.

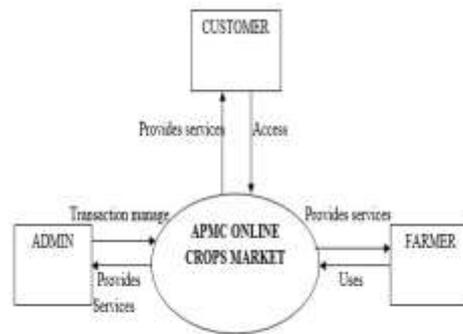
## II. METHODOLOGY

In Existing System, there are no such applications which helps the formers to directly communicate with consumers and sell their product. Farmers are not getting paid for what they actually deserve. Mediators are eating up all the money. Even consumers are paying more for the product.

The proposed system consists of the following Modules:

- The Farmer Module
- The Customer Module

- The APMC Module



**Fig: Design Modules**

**Farmer Module:** Farmer has spent a lot of blood and sweat to grow crops. Thus they need to get profit in a respective manner which will encourage them to grow much more crops. Here it includes all details like, farmer details, his land and about crop which he is willing to sell. Here farmer can view his orders in his dashboard.

**Customer Module:** Customers who is staying in cities were so busy in their daily Routine. They may feel difficult to go out and buy their needs in a daily basis. This Android minimise the frustrations by providing crops to their doorsteps. Here this module consist of Customers details and he can also view available crops in his area. Customer can get his needs at their doorsteps.

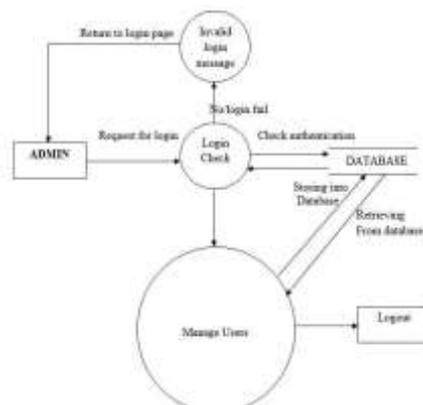
**APMC Module:** This module consists of all detailed transaction of Farmer and Customer. This will be used only by the authorized person. He can delete users. Modification can be done only by this person.

### III. PROPOSED MODELS

**Visitor--** If the farmer or consumer is new user of the application then he will perform the tasks such as, the farmer or consumer will visit the home page. Fill the personal details such as user name, password, address, phone number, email-id and finally select the type of user (farmer or consumer) in the registration form. After registration user will become the type of user and then he can login to the android application. Once the system authorizes the new users, then he can perform all the functions of registered users.

**User--** Registered user will perform the tasks such as firstly he or she will login into the user interface which help him or her to avail the services of the application. For login into the system the registered user has to provide his or her user name and password for authorization purpose. The user name and password must match with the entry in the database then only the user can enter into the application area and get a view of application. The user can add the crops they have grown and sell it and the buyer can buy the crops. The process takes the actions based on particular location. Finally after finishing up all the tasks user can logout from the application.

**Administrator—**The admin of the system has the special rights such as deleting the specific user from the database of the application. Altering the details concerning specific items. Outlook the report, which contains the sale reports for specified day for going week and for going month.



#### IV. FUTURE SCOPE

We can maintain Communication Model. We can use this application for communication purpose efficiently without any interruption. This technology helps in modernization. Along with this we can maintain base station so that we can easily maintain and monitor percentage of Soil Moisture. All data can be analysed efficiently with the help of communication Model. Wireless communication helps in easily analyzing the actual Environment. At present we have developed only for selling and buying products. but, we can further implement it with many additional features. Above mentioned is one among all other Features.

#### V. CHALLENGES AND AWARENESS

Marketing of agricultural products involves several challenges. The reading and writing proficiency level of the farmers is less and restricted access to market place details. The benefits of the both farmers and consumers are taken away by the middlemen. So the farmer has to face many hurdles to get fair price.

The farmers are not able get the proper information about the accessibility of market information. The awareness should be given to farmers through audio and videos in the radios and televisions. Now a days farmers are using android phones so that they can use this application and get the awareness. This increases gradually in future coming days.

#### VI. CONCLUSION

- This application will be helpful in avoiding the mediators by delivering the agricultural products directly to the consumers.
- This application involves easy registration process .
- This application is built for Android OS as well as web applications.
- This application helps consumers to get fresh products and there will be no loss for the farmers as well since the products will sold at proper price and at proper time as per the consumers need.
- Products marketing can be made efficient, the efforts from many sectors related to the farmers is properly handled in an integrated way.

#### REFERENCES

- [1] Abishek A. G, Bharathwaj M, Bhagyalakshmi L. "Agriculture marketing using web and mobile based technologies", in 2016 IEEE International Conference on Technological Innovations in ICT for Agriculture and Rural Development.
- [2] Kalyani Khodaskar. "Virtual fruits market-application for farmer", in 2015 Fifth International Conference on Communication systems and Network Technologies.
- [3] Justin J. Henriques and Beaudry E. Kock. "Empowering small holders and local food markets with smart phones and social networks", in 2012 IEEE Global Humanitarian Technology Conference
- [4] N.K Mishra 'FAO/AFMA/Myanmar on improving Agriculture Marketing', Journal on Agricultural Marketing Information System.2003.Vol 15.
- [5]Yan Bo and Bu Yibi, 'Agriculture Marketing System in China', Journal on Agriculture Marketing Information System,2003,vol 15.
- [6] Dhankar. G. H., 'Development of Internet Based Agricultural Marketing System in India' Agriculture Marketing, 2003,vol 4.