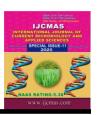


International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 Special Issue-11 pp. 3786-3793

Journal homepage: http://www.ijcmas.com



## **Review Article**

# Mandi Farm: Novel Approach for Farmers as E-Market Place

Rachana Behera\*, Ankita Singh, Kajal Singh and Sushopti D. Gawade

Information Technology, Pillai College of Engineering, Navi Mumbai, India \*Corresponding author

#### ABSTRACT

# Keywords

E-agriculture, Middlemen, Right amount of yield, service oriented scheme, searching and decision making This paper focuses on a web based E-agricultural system where it helps the farmer to access the wide market portal across the world or it's nearby areas. The framework basically removes the problem of middlemen because of which farmer's don't get the right amount of their yield. In this farmer will register into the portal and provide information like quality and prices of their produce with the duration of the produce to be sold which the customer will browse through and buy as per his/her requirement. It also provides a service oriented scheme in which the produce is delivered at doorstep. The algorithm used in this project is searching and decision making.

#### Introduction

E-Mandi is an online fruits & vegetables store that has made available to provide services to people in making online shopping accessible to them. It is an online website which will allow the people to buy produce very easily and also maintain transparency between the farmer and use. This application helps user to buy vegetables and fruits at its best price. The system provides a well defined interface which helps the customer to browse through various items available easily. There are many important reasons for the productivity of a region's farm.

# **Related Work**

Sheetal Bhagwat, Sandhyarani Lavhare, Sneha Ingle, Nirmal Chaudhari, proposed proposed a method of transforming the traditional way of architectural trading into an electronic means to exchange between the farmers and consumers in agriculture era by using mathematical and preferential evaluation of buyer and naive bayes algorithm.

Ritesh Kumar Bista. Rahul Patidar. Manjunath C R. proposed a mobile application for mandi using E-Auction which help the farmers to sell their produce worldwide and this process is done by a bidding method i.e the highest bid for the produce is finalize for the payment and farmers are able to transport their produce to the buyers.

Samruddhi Suresh Khandare, Prof. Sushopti Gawade, proposed a information communication technology with digital India in agriculture domain in which the digital campaign by the government is done to convert our country into a smart, economy

cautious and digitally legitimized nation with the help of government services and programs in the agricultural field. N. Viswanadham Sridhar Chidananda Y. Narahari Pankaj Dayama, proposed a mandi electronic exchange which orchestrates the indian agricultural markets so that social welfare can be maximized. Here the matching of buyers and sellers take place on the basis of produce they want to buy by using a mixed integer programming model.

# **Proposed System**

After going through several literature reviews, there should be a requirement of a real time system which will be used to develop a E-mandi farm for the farmers and the users. The main objective of the proposed system is to develop a website that will help the farmers to get the right amount from their produce produced. There will be information regarding the produce which will be available up-to-date in the website. The system gives the choice to the farmers of when and where to sell the produce individually. The users then can have a view of the product they sell and then can buy it and can even provide feedback regarding the produce, service etc.

# **Prediction System**

First we will start, then Sign up at the sign up page, then Login into the registered account, if successful go to next step, Else return to login page again, check for updates next we can, add, delete product, view product, buy the product, then payment is processed for the product. If successful, we will proceed to the next step or else go to buy product and finally we will End.

## **System Flowchart**

The flow will work as: start, users search for

farmers and produce area wise. Then the algorithm will check for the mentioned product in the database. If the record is found and matched the expected result is displayed. If required the steps will be repeated for the new product search. The product matched is further proceed to buy now. If the product is available to buy, then the transaction process is carried on. After the success of transaction, we Stop.

# **Supplier portal**

The suppliers include registration page (figure 4), login page (figure 5) and fill product details page (figure 6).

The registration page includes details of suppliers such as name, mobile no, address, password, aadhar card no. Then the supplier login page includes authenticate information like registered mobile no and password. The product details page includes details of the product like category, quantity, name, price, location of the product.

#### **Retailer Portal**

The retailer Portal includes Figure 7 (list of product page), Figure 8(supplier details page), Figure 9(card details page). The list of product pages display the list of products which the customer can order.

Then the supplier detail page includes the details of suppliers from which the customer has ordered his/her produce. The card details page gives the payment details of the customer.

## Multi Language

The website has a multi language feature that is the pages can be displayed in around 100 plus languages.

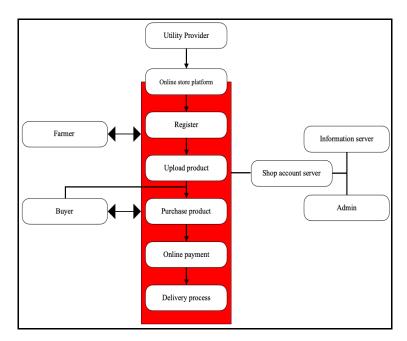


Fig.1 Block diagram of proposed system

Fig.2 Flow chart

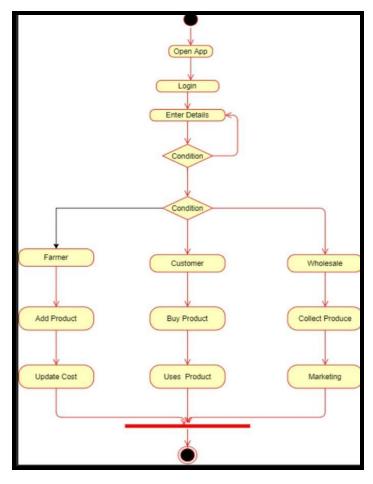


Fig.3 Welcome page of Portal



Fig.4 Registration page



Fig.5 Login Page

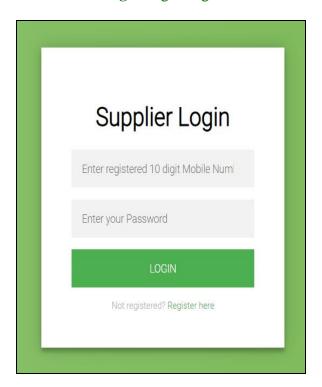


Fig.6 Fill product details page

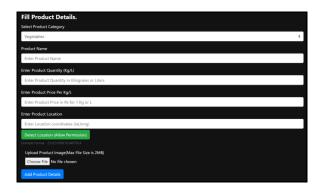


Fig.7 List of products

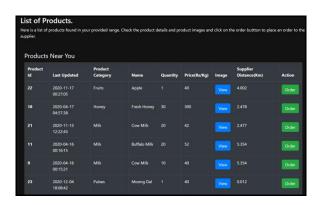


Fig.8 Supplier details

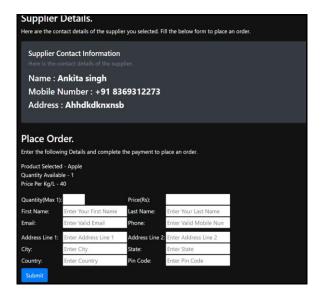


Fig.9 Card details

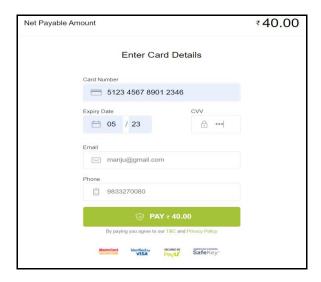


Fig.10 Details in English

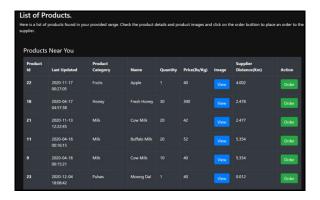


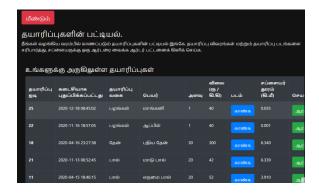
Fig.11 Details in hindi



Fig.12 Details in Marathi



Fig.13 Details in Malayalam



The paper describes an E-agricultural system which basically allows each and every farmer to sell their produce directly at the doorstep of the customer. The database stores the information of the registered farmers, buyers, and the produce information. The farmers of this website handles several activities like updating, deleting, modifying the information of the produce. The payment in this portal is either done through online or as Cash on delivery and payment goes directly to the farmers account. Hence this website will let the farmers get their right amount at their right time without any middlemen or any other involvement of commission agency.

This portal will be easily accessible and even can be comfortably used by both the users and the farmers. This is one of the most important steps for the transformation of agriculture in India.

#### References

Kapile Manoj S, Bhoge Manoj M., Babar Jalindar Prof. Prabhudev S., Irrabashetty, "KISAN: An Improved Farmers"-Interface for Indian Journal International of Advance Research and Innovative Ideas in Education, 2016.

Komal Raikar and Sushopti Gawade, "Review of Usability and Digital Divide for ICT in Agriculture", International Journal of Advanced Research, January 2017.

KomalRaikar, Sushopti Gawade, Varsha Turkar. "Usability improvement with crop disease management as a service". 2017 International Conference on Recent Innovations in Signal Processing and Embedded Systems (RISE-IEEE).

- Manav Singhal, Kshitij Verma, Anupam Shukla, "Krishi Ville-Android based Solution for Indian Agriculture", Advanced Networks and Communication Systems(ANTS)2011, Bangalore, 26th 2nd November 2015, pp. 134-139.
- Meltem Huri Baturay and Murat Birtane, Responsive web design: A new type of design for web-based instructional content (2013).
- Prasanna Devi, S., Y. Narahari, N. Viswanadham, S. VinuKiran, S. Manivannan, EMandi Implementation Based on Gale-Shapley Algorithm for Perishable Goods Supply Chain, 2015.
- Prasanna Devi, S., Y. Narahari, N. Viswanadham, S. VinuKiran, S. Manivannan, EMandi Implementation Based on Gale-Shapley Algorithm for Perishable Goods Supply Chain (2015).
- Ramesh Chand Member, NITI Aayog, New Farm Acts; understanding the implications, November 2020.
- Samruddhi Suresh Khandare, Prof. Sushopti Gawade, "Information Communication Technology with Digital India in

- Agriculture domain", International Journal of Modern Trends in Engineering and Science, Volume: 04 Issue: 02 2017.
- Sushopti Gawade and Dr. Varsha Turkar. "Analysis of Digital Media Compatibility with Framers in Maharashtra and Recommendation of Service Provider Design Framework E-Krishimitra", International Journal of Agricultural Applied Research Volume 12 Number 1, 2017.
- Tanuja R. Patil, Shamshuddin. K., Rajashekhar Patil, Sadan and P., "Krishi Samriddhi: A Decision Support System for Farmers to get High Yield Crops"- International Conference on Computational Techniques in Information and Communication Technologies (ICCTICT), March-2016.
- Yadav, J. P., Abhishek Sharma, "National Agriculture Market: The Game Changer for Indian Farming Community", University of Rajasthan, Jaipur, IJSRM Volume 5 Issue 07 July 2017.