IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

Impact Factor 7.39 ⁜ Vol. 11, Issue 4, April 2022

DOI: 10.17148/IJARCCE.2022.114170

Farmkart: Directly from Farm

Vishal Bhalerao, Alka Bhalerao, Ravi kumar Auti,Vivek Mahajan,Prof. Chandani Lachake

Department of Computer Engineering, SKN Sinhgad Institute Of Technology And Science ,Lonavala, India

Abstract: Online Agriculture Management System is the web application which will help farmers by providing different different kinds agricultural related information and agricultural services in the website. This website will help farmers by providing them a large online market to sell their product. Customer can send a purchase request and they can purchase products through online website. Even farmers can hire working man and they can be updated with the new agricultural developments with articles and blogs module. Admin can post latest updates about agriculture and he can sell agriculture products in the website. Workers can upload their resume and they can view work schedules and after the login they can choose technology and services to the farmers, sellers and farm laborers help them to expand their business and connect them with a wider market. To provide a helping hand to the farmers and farm laborers are improving their lives through the medium of technology Hence the Agricultural sector in the Indian economy is getting better.

Keywords: B2B shop, C2C Shop, Product Based Site, Agricultural Development

I. INTRODUCTION

In this project, we will create an web application that will be benefited by farmers and traders. There will be registration of farmers and traders in this system .The farmers will have to fill their details in this form. Farmer people will first log in to these systems and they will see the details of the goods want and then contact system can apply to other states .The farmers can sell their goods directly in another state with the help of this android application .This system will give a huge platform to farmers and traders to exchange goods .When the goods of the farmers are sold online, our country will become a real digital India .The biggest problem of our country's farmers is how to sell goods in market and how many prices will be available to those goods .They do not get the platform to sell their agricultural products . This website will help many farmers by providing them a platform of large online market to sell their products. Customer can send purchase request on website and they can purchase product through online website. Even farmers can hire laborer if they want and they can upload the latest agricultural developments with articles and blogs module. Workers can upload their resume on website and they can view work which is scheduled to them after the login. To expand their business and to provide them with a huge market.

II.LITERATURE SURVEY

The interactions that is occur between humans continue to change along with the development in the modern world. Direct interaction is basically to develop social networks turns into indirect interactions with technological social media. The habit of digital transaction models are carried out by the community, especially with the technology-savy community, shows the increasing percentage. The shift in the shopping of people who are technology literate from ordinary shopping to online shopping is increasing and increasing. According to data from The Nielsen Global Survey of E-commerce, out of 30 thousand respondents who have internet access from 60 countries in Asia Pacific, Europe, Latin and North America, and the Middle East. online channels in buying a variety of products or services to meet their daily needs. The data shows that as many as 61 percent of constumers who choose to shop using smartphones, and another 38 percent choose tablets or other mobile devices. Meanwhile, 58 percent of constumers prefer to use a computer [6]. This shows that the shift in the way of shopping and interacting in cyberspace continues to develop, which later becomes a new market in marketing products in both services and goods.

The addition in digital agricultural economy will tend to increasing income and It can also encourage agricultural development and support farmers to compete in world. As stated by Bahua (2016) that the existence of agricultural development that is more in favor of farmers which has an impact on farmers' confidence and hardwork in trying to increase the productivity of their farming business [9]. With the agribusiness and agro-industry systems that are oriented towards non-formal education, it shows that there are challenges aimed at farmers in facing competition in the global market. As the development of agricultural technology will increase, it is the solution of agricultural development. The digital agricultural economy is a continuation of the agricultural economy which is used by using mobile phones to smartphones whose use is in the form of small messages, calls and social media applications like Whatsapp, Facebook, Instagram, and even other special applications.

The subject of e-SCM is the main concern and has become a topic that has been considered by many contemporary researchers and published in various prestigious journals [14]. The company will be developed by the supply chain of utilizing information technology and the internet, which is commonly known as an electronic supply chain. The electronic

 This work is licensed under a Creative Commons Attribution 4.0 International License

IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

Impact Factor 7.39 ⁜ Vol. 11, Issue 4, April 2022

DOI: 10.17148/IJARCCE.2022.114170

supply chain is a process that involves companies and partners in an integrated manner that allows the sharing of processes, objectives and information relevant to the entire value chain [15]. The concept of the supply chain is to manage relationships with parties inside and outside the company by providing customers better value at a lower cost throughout the supply chain. The key value of the SCM philosophy is that the overall performance of the entire supply chain automatically improves by optimizing all links in the chain, and optimizing the results as a whole [16]. To be more competitive, companies need to upgrade into the organization's network. Companies that ignore this challenge lag behind their competitors. The integration of companies into the network has led to a greater emphasis on supply chain management.

Beside the change to online shopping, in the pandemic consumers prefer goods which is very needed not by the wants. The continuity of pandemic which can not be predicted cause this change. Work from home policy also encourage housewives/husbands to cook foods and utilize their time in different ways. This condition demand many restaurants to change their sales pattern by dine in toward online. Covid 19 pandemic has an major impact to increased agricultural commodities online almost 350% to 400%[8]. Mobile devices[5] are used extensively by the individuals for communication, music, diversion, web and social networking.

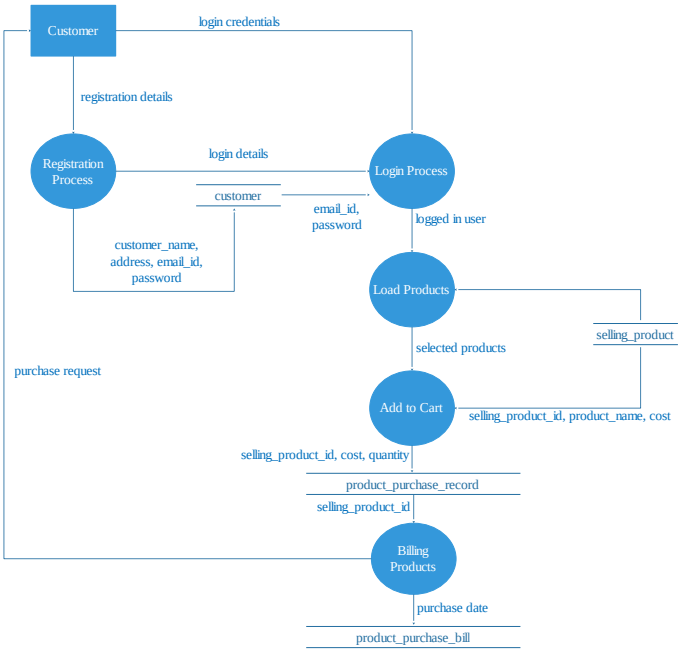
There's a insufficiency of applications, which might be very helpful for the professionals entrepreneur to enhance their operating capabilities. Although mobile phones are utilized by individuals living in rural areas, however there are hardly any relevant applications for them to enhance their productivity. During this paper, we've planned and enforced a system for farmers which might be operated on their mobile phones. The system is developed for service that is design (SOA) using spatial knowledge method and mental object.

The mental object is maintained within the sort of ontologies.

The system will fill the gap between farmers and customers. A farmer will give inputs associated with crops being cultivated and site data to induce specific suggestions, alerts and proposals to enhance productivity. It will generate victimization for mental object.

III. PROPOSED SYSTEM

System is providing platform such as android app and website app at government level wherein farmer can sell his crop products at different layer of marketing chain (market, merchant or end user) with multiple option. This platform will help farmers to find out nearest markets, its current stock details and its demand for particular product within less time & with less effort. This analysis will thereby help to determine which market will be more profitable for his crop/product. Here we are providing a complaint box for farmers to launch complaint, e.g. :- suppose any merchant offers less price than the government's specified price for minimum quality of crop/product then farmers can directly launch complaint against him via the complaint box. This complaint will be registered in government's database so that government can take action on it. Government module has the authority to set minimum price for minimum quality of crop/product (Hamibhav) as well as to set and update different rules and regulations time to time. In some cases, we observe overhead raised price of food product due less availability of stock in market.



(Proposed System Diagram)

IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

Impact Factor 7.39 ⁜ Vol. 11, Issue 4, April 2022

DOI: 10.17148/IJARCCE.2022.114170

This price can be 2 to 4 times greater than actual price. It affects common people budget and daily life as well. With the help of the market details government can predict such conditions before facing the actual problem. This will give a little more time to figure out possible solutions for such conditions. Load balancing technique can help to share load balance between different markets so that shortage of particular product can be reduced. This will help us to handle the overhead price of crop/product due to less availability in the market. This platform can accommodate traditional marketing method as well as modern marketing methods. This web based application will provide the information like market detail, list of merchants ,list of farmers ,list of end users , list of complaints etc. This will leads to a better management for government

IV. MATHEMATICAL MODEL

Let S be the solution perspective of the given problem such that, S = {s , e, x, y, DD, NDD, Fme, cpucorecnt, failure, success,} S - s be the initial state X - x be the input of the system. Y - y be the output of the system. Fme - be the main algorithm resulting into outcome y. DD - The DD be the deterministic data, it help identifying the customer Validation record. NDD - NDD be the non-deterministic data of the system to be solved. These being computing function or CPU time or ALU time complexity. CPUcorecnt - is the no of core of the CPU. Success- desired output is generated. Failure Desired output not generated, forced exit due to system error. In our problem statement: Admin (A) Farmer (F) Merchant (M) Grains Æ G Æ The set of available grains globally.For each G there is least price Pr.

Farmer Æ F – G Fr Æ set of grains available for sale. F Æ will put images, quality, & prices of all grains from set G Fr. F has a location with lat. Long. – L f. Merchant Æ M Æ G Mp Æ set of grains of demand from merchant or market. Location for merchant Lm. Step 1Æ Exploring merchants from nearby location Æ Lf fetched from database from lat. Long. Find nearest M from comparing with each Lm. Input Set: 1)Username={
(Farmer:cropinformation,price),(Merchant:crop price)} 2)Password 2 variables: 1)Farmer expected price 2)Merchant offered price 3)Government declared price Processing Set : Execution={Searching module} ->nearestplace ->input >current location ->latitude and longitude check Similarly it will be done by merchant. On customer side : ÆCheck out the grain requirements (it is stand-alone module) ÆIndependent approach Resources : ÆGovernment declared price ÆArea Name ÆCrop Information Output Set: ->explore the nearest merchant ->list displayed to farmers as output Outcome analysis: Let Fme be a function that perform the core function in the problem to be executed successfully.. Fme-y1 - > x1

V. METHODOLOGY

Feature Extraction for Farmkart:-
User friendly- The Mobile friendly web interface has been designed completely user friendly, to facilitate the access even to an illiterate farmer.
Sell and purchase module- It is complete package of farmer management system. The farmer can sell their productions through web portal and the customer can purchase the seeds and products through web portal.
Articles and blogs – This is the public page and any one can read it without login. This contains useful information about agriculture.
Users-
i. Farmers- can sell their production on web portal after registration. ii. Workers- can get work request from farmers.
iii. Customers- can buy the production of farmers and also send purchase request to farmers to check the product quality.
iv. Admin- can have the full privilege of the web portal. They can sell agricultural equipment and pesticides on web portal. Reports- For every billing activity reports are generated.

VI. CONCLUSION

The Covid-19 pandemic has resulted in changes in consumer shopping behavior. The government's policy of 'lockdown' or 'semi-lockdown' (PSBB) has increased the number of transactions for agricultural products through e-commerce. The implementation of ecommerce will make transactions more effective and efficient, improve distribution channels for agribusiness products that have been done traditionally, and reduce transaction costs, prices, and save time.

VII. REFERENCES

[1] Rakhmadi, Roby and Junaidi, Junaidi (2022) Digital Economy Through E-Commerce in Agriculture i

Manisha Bhende;Mohini S. Avatade;Suvarna Patil;Pooja Mishra;Pooja Prasad;Shubham Shewalkar " Digital Market: E-Commerce Application For Farmers"

[3]Vaishnavi Desai;Isha Ghiria;Twinkle Bagdi;Sanjay Pawar "KRISHI BAZAAR: An E-Commerce Application For Direct Farmer-to-Consumer Trading"

International Journal of Advanced Research in Computer and Communication Engineering

Impact Factor 7.39 ⁜ Vol. 11, Issue 4, April 2022

DOI: 10.17148/IJARCCE.2022.114170

[4] MansiShinde, Kimaya Ekbote, Sonali Ghorpade, Sanket Pawar, ShubhadaMone, " Crop Recommendation andFertilizer Purchase System"2016

[5]Ju Yang;Zhe Wang "Research on the application of ecommercial modes for agro-food in mainland China: O2O and B2C"

[6] A case-based distance approach to agricultural product's vendor evaluation in e-commerce Wangquan Sun;Ye Chen;HaiYan Xu