Farming assistance web service

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Abstract— In our day to day life we consume food and our survival is predicated on mainly food. A considerable amount of our food is coming from farms and other means too. These farmers do their hard work for growing and serving many lives across the country, which pays for their source of income. But thanks to intermediates within the selling of their final products the farmers are unable to form their profit and mostly live poor. By this project we will be able to connect farmers directly to the customer so that direct dealing of products can be accomplished. This will end in a big decrease within the prices of the products currently available within the market also because the profit will directly reach the farmers pocket..

Keywords—Farmer, Dealer, Shopping cart. JSON,Parser

I. INTRODUCTION

As we step forward into the modern era of technology, we may find many engineering related applications very beneficial for improvements into the society. This is the world of technology where people use smart phones for completing their daily tasks like shopping, paying bills, managing work and much more. The idea of this project is to add its features into the lives of the people so that the food which they buy can be bought directly from the farm so that the profit can reach directly to the farmers. Because in India we follow a supply chain of farm product making things too much indirect for the farmers due to which the farmer still reaming poor and the intermediates are gaining profit which ultimately makes them rich. So in order to break that supply chain of indirect sales, we can make use of this application so that the farmer can be connected directly to the customer and the selling can be done accordingly.

1 Problem On Hand

Since the farmer will be dealing with the customer directly so the prices of the products offered by the farmer to the customer will also be affordable to customer, which will help both the farmer and the customer where the customer can save some money and the farmer will gain extra profit that he deserved. The reason to establish a direct farmer-to-consumer marketing outlet is primarily to increase your financial returns from farm production. The opportunity to increase returns stems both from reducing marketing costs attributed to "middlemen" and from consumer desire to buy riper, fresher fruits, vegetables, and other commodities. These two factors can combine to allow higher gains for you in several ways. Farmers do not understand about proper fertilizers and their uses.

II. LITERATURE SURVEY

Qingmin Yuan introduced this paper starts from the concept of the supply chain of the agriculture products. The characters of the agricultural products and its supply chain are discussed in the paper. Agricultural supply chain management and development of the rural economy, and increase the incomes of the farmers [1]

Qian, Yongfeng, et al. This paper tries to analysis the brand agricultural products' supply chain that contrast with Japan, then we find several questions which exist in china's brand agricultural products supply chain. This paper argues that the quality of agricultural products is the brand of agricultural products supply chain management, pre-elements of the supply chain through the joint efforts of all partners to reduce the total supply chain costs and improve supply chain performance. [2]

Pereira, Nymphia this article critically reviews the scenario of agriculture supply chain management in India by throwing a light on role of agriculture supply

chain management, Agri food supply chain management, Agriculture marketing in India, market place for agriculture products, APMC, contract farming and private sector initiatives. Better control product quality and safety through tracking, tracing, and certification. [3]

Wang introduces The main goal of this project is to provide a bridge of communication between the farmers and customers across the country so that they can get together and do business that is beneficial for both ends. every farmer reach the homes in there nearby locality or cities by the medium of this web portal [4]

Zhao says the farmers to manage their expenses, get proper schedule regarding cultivation of sugarcane, facilities provided by sugar factories, get more and more information about new technologies in farming this application will work as an advisory and information system for farmers. [5].

III. PROPOSED WORK

We are going to develop e-farming application that fulfill all needs of the farmer and give the solution. We have multiple sections like login for farmer/people to use it on their own way. As per requirement of our application who will using the application via Web Application .Next section there is web panel from this the government agency and bank committee will login and feed up their important data and information. In this application we also included another one feature Weather Forecasting which helps to farmer to take prediction and get fruitful result and work according to weather. Our main goal is to help the farmer which is in trouble and give him to user friendly application.
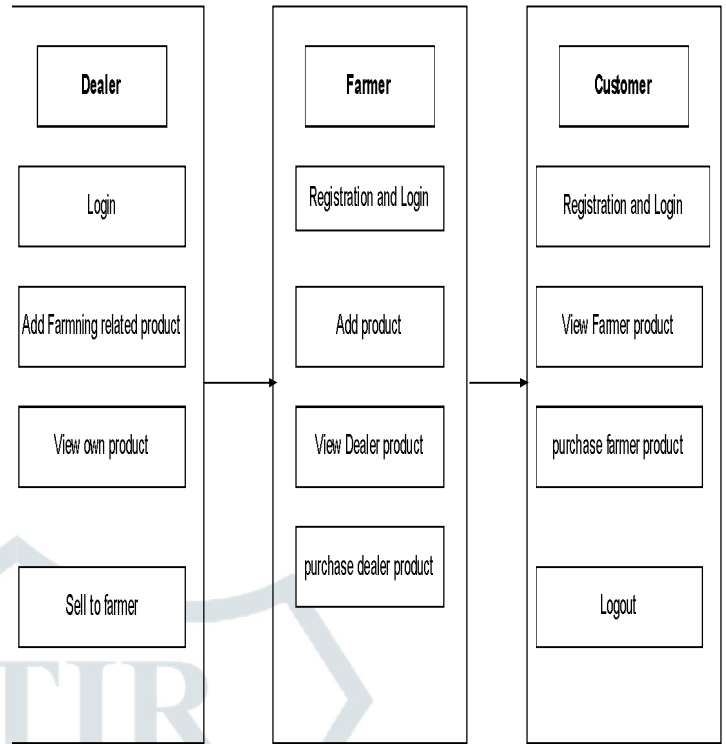

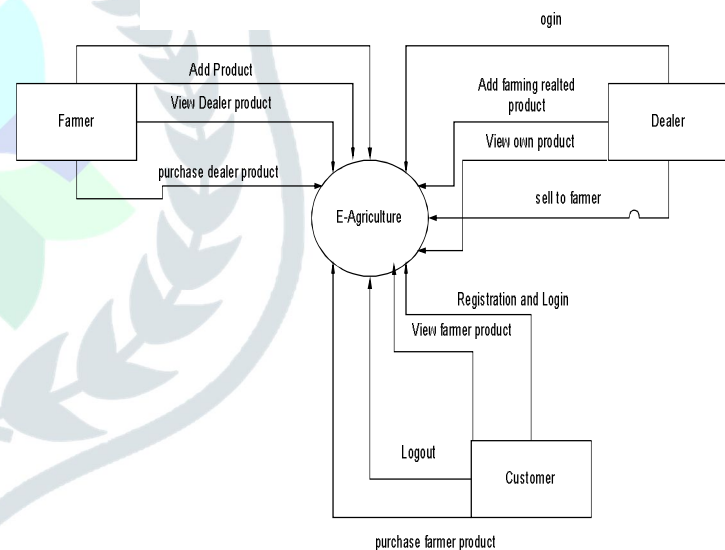*Fig1: Architecture Diagram*

Fig2: DFD level0

METHODOLOGY

The system will be having only one User-name and Password section on the front page, as per the user-name and password the system will know whether user is Farmer/Dealer/Customer/Admin.

6.1 Scenario of Project

Scenario 1: Farmer

• Farmers can create new account, log-in to their existing accounts which will give them the authority to use the services provided by the system.

• Authenticated farmers can sell their product and view their product.

Scenario 2: Dealer

• Dealer sells the product to registered Farmer.

• Dealer View their product

Scenario 3: Customer

• Customers can create new account, log-in to their existing accounts which will give them the authority to use the services provided by the system.

• Authenticated Customer can buy farmer product and view their product.

• Customer make payment which they ordered.

Scenario 4: Admin

• Create and monitor accounts of farmer and Customer.

• Maintain the website.

• Login in system

IV. FUTURE SCOPE OF THE PROJECT

We can implement the language option ,through which anyone can communicate in their comfortable language than English. If anyone cannot communicate in English than he/she can choose another language. We have implemented the chat option, guest login to the system making system more users friendly. By the help of this portal people will be able to get fresh food

to eat and will be able to explore parts of their nearby villages for picking up their purchases and exploring the place establishing relation with farmers and gaining profit by saving their money , adding profit directly to the farmer helping farmers too.

V. CONCLUSION

The paper speaks about the project in which we took the idea that will make every farmer reach the homes in there nearby locality or cities by the medium of this web application. In this we have used some simple database and used a reference algorithm for displaying the images on the left side termed as related product in the purchase product. We have implemented the Customer login, Farmer Login as additional features to the system making system more users friendly. By the help of this application people will be able to get fresh food to eat and will be able to explore parts of their nearby villages for picking up their purchases and exploring the place establishing relation with farmers and gaining profit by saving their money , adding profit directly to the farmer helping farmers too.

VII. References

[1] zWilliams, J. E. Lueg, and S. A. LeMay, "Supply chain security: An overview and research agenda," Int. J. Log. Manage., vol. 19, no. 2, pp. 254–281, 2008.

[2]Y. Sheffi, "Supply chain management under the threat of international terrorism," Int. J. Log. Manage., vol. 12, no. 2, pp. 1–11, 2001.

[3] INTERPOL, Global scale of food fraud highlighted in INTERPOL.

[4] Europol report, 2016. [Online]. Available: https://www.interpol.int/News- and media/News/2016/N2016-139. Accessed on: Nov. 30, 2016.

[5] ABC News, Clues Sought in $75 million record-breaking drug heist. Reported by Y. Denies and L. Ferran, 2010. [Online]. Available: http://abcnews.go.com/GMA/TheLaw/75-million-drugs-stolen-dramatic- connecticut-

heist/story?id=10133205#.T3x29tXy83E.　　Accessed on: Apr. 03, 2012.

[6] Specification for security management systems for the supply chain, ISO 28000-2007, 2007. [Online]. Available: http://www.iso.org/iso/ catalogue_detail?csnumber=44641 [7] C. Speier, J. M. Whipple, D. J. Closs, and M. D. Voss, "Global supply chain design considerations: Mitigating product safety and security risks," J. Oper. Manage., vol. 29, pp. 721–736, 2011.

[7] T. J. Pettit, J. Fiskel, and K. L. Croxton, "Ensuring supply chain resilience: Development of a conceptual framework," J. Bus. Log., vol. 31, no. 1, pp. 1–21, 2010.

[8] S. Chopra and M. S. Sodhi, "Managing risk to avoid supply-chain breakdown," MIT Sloan Manage. Rev., vol. 46, no. 1, pp. 53–61, 2004