

Novel Approach for E-Business in Agriculture

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Abstract— The Major Occupation in India is the Agriculture, the people involved in the Agriculture belong to the poor class and category. The people of the farming community are unaware of the new techniques and new arrivals in the agriculture departments, which would direct the world to greater heights in the field of agriculture. Though the farmers work hard, they are cheated by agents in today's market. Now a days, world is like a global village due to computerization and internet facility. Here, we are interested to introduce a new concept for advanced, well-educated and interested farmers who are adopting latest technologies in farming. We are providing the facilities like guidance regarding weather report and forecasting, market updates of different commodities, facilities and subsidies provided by central and state Govt., facilities and subsidies provided by non-government organizations in India and abroad. The government sees all the details of the merchant to prohibit the black market of the grains. Our project intended to provide reliable and efficient platform or Environment to interact with different marketing facility. Farmers are able to sale their goods (Crops, vegetables, fruits etc.) to the merchants giving the highest prize related to the product and the government authorizes person can watch all the transaction happened between the farmer and the merchant. The government has all the authority regarding to the transaction happened in our project. This serves as an opportunity to solve all the problems that farmers face in the current world

Keywords— Website, Market rate, Weather Forecasting, E-learning.

I. INTRODUCTION

E-Business Agriculture is an emerging field focusing on enhancement of agriculture and rural development through improved information and communication processes. Agricultural marketing involves many activities and processes through which the nutriment and raw material move from the farm to the final consumers. The marketing system should be so designed as to give proper reward to the efforts of the agriculturist. But unfortunately, in India, the middlemen enjoy the benefits at the cost of disability, illiteracy of the poor Indian farmers. E-Business Agriculture is the web application that will help the farmers to perform the E-bazaar leading to achieve success and increase in their standard of living. The E-bazaar would allow the farmers to have a view of the bills created and the related information in their accounts. A Merchant would serve as a way for the farmers to sell their products in the market. The Government authorize person will have control on the Agents through special type of the login. Website will also provide market-wise, commodity wise report to the farmer in interactive way. In rural area, this facility would give the required market information where internet cannot be availed. Government will put forward the

new schemes for the farmers. The government has a full authority to see all the transactions happened between the farmer and the Agent. The governments also see the Agent full report. Unique interface will be provided for applying and viewing the schemes Farmers and the Agents will be provided with a Unique ID for logging into their accounts leading towards secure access

II. LITERATURE SURVEY

Many studies have been conducted to implement the concept of E-Business Agriculture to make enhancement of agriculture and rural development with the deployment of website will help farmers from Indian villages to sell their products to different city Agents, under the supervision of the government. Some of these are reviewed as under: Reference [1] deploys a mobile based application for farmers which would help them in their farming activities. Updates of the different agricultural commodities, weather forecast updates, agricultural news updates can be provided through system proposed in this paper. Agriculture boost up and to maximize profit of farmers has been explained in reference [2]. Proposed methodology of developed interface for the Indian farmer community to access the agricultural information from the global internet repository and store them into local repository. Making farmers technology aware so that they can easily solve the problems faced in day to day life has been done in reference [4]. For improving productivity in agriculture advice is given to the farmer both in timely and personalized situation is explained in reference [5]. Reference [3] explained the concept of making farmer aware of e- agriculture platform and new technology that will help to maximize profit and to compete with farmers of developed countries in today's globalised market.

III. PROPOSED SYSTEM

E-Business Agriculture is for better communication between Merchants and Farmers is the web application that will help the farmers to perform the E- Business leading to achieve success and increase in their standard of living. E-Business in Agriculture will serve as a way for the farmers to sell their products across the country just with some basic knowledge about how to use the website. The site will guide the farmers in all the aspects, the current market rate of different products and the earned profit for the sold products, access to the new farming techniques through E-learning and centralized approach to view different government's agriculture schemes including the compensation schemes for farming. The main approach of this project is to prohibit the black marketing of the granary products. The government

authorized person has easily see the whole transactions between the farmer and the Merchants. Getting availed to the required information related to the markets and different products can be made possible through the facility provided by the system. By using this system the main aim is to make sure that the farmer will get the fully profit of their product without bargaining with Merchants or we can say the Agents.

IV. ARCHITECTURE DIAGRAM

The system architecture consists 3 modules: Farmer, Merchant and Government. Farmer and Merchant have to register him. After Farmer login, Farmer can add products details i.e. crop income in quintal and after Merchant login, Merchant can add product price per quintal. System gives information of Merchant who gives best price to Farmer from nearest AMPC. Also system gives information of Farmer who sale the product which are purchase by particular active Merchant from nearest APMC.

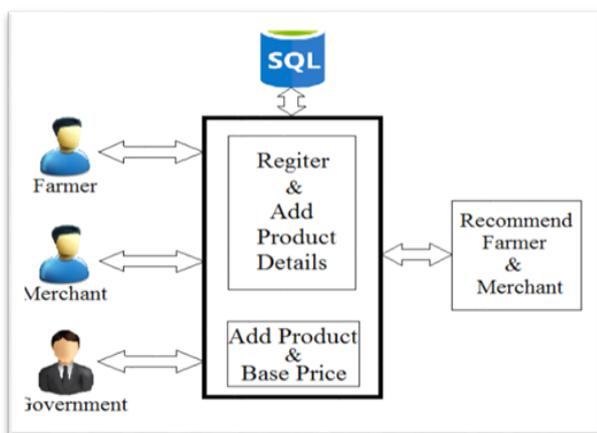


Figure 1: System Architecture

Government module has responsible to add products and its base price into the system. Government has an authority to view all Farmers and Merchants information in all APMC'S. Also he has authority to check transaction details of all Farmers and Merchants to stop black marketing.

V. PROJECT MODULE

There are 4 modules in our system and that are as follows:

- A. **Farmer:** Farmer register and log in to the system, enter his details information, display stocks, update the prices and finalize the deals.
- B. **Government:** Government APMC department keep updating prices, schemes and policies and supervise the communication between farmers and the merchants.

- C. **Merchant:** Merchant register and login to the system, check the prices, update the prices, finalize the deals.
- D. **Admin:** Admin keep track of data used by end users and mine the data to show weather forecast, predictable prices and graph of consumed commodities.

VI. RESULT

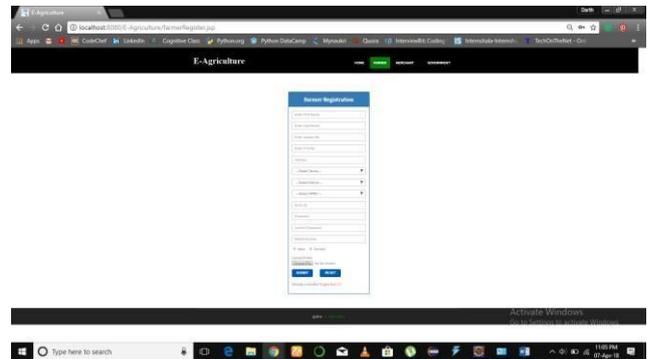


Fig 2: Registration Page

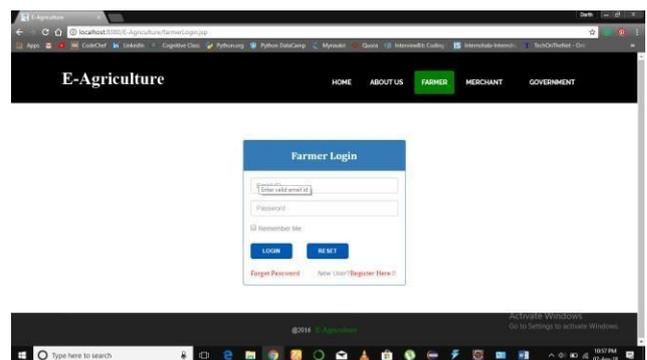


Fig 3 :Login page



Fig 4: Home page



Fig 5 : About Page

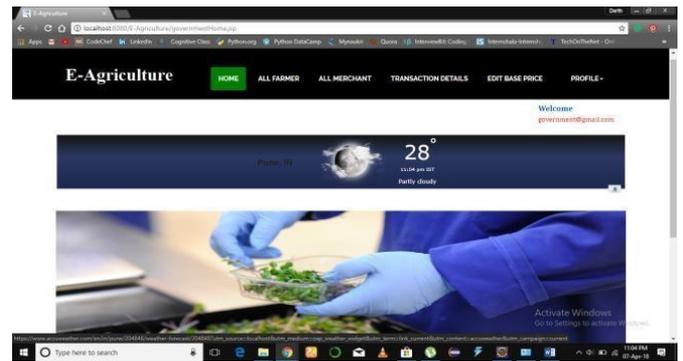


Fig 9 : Govt. login page

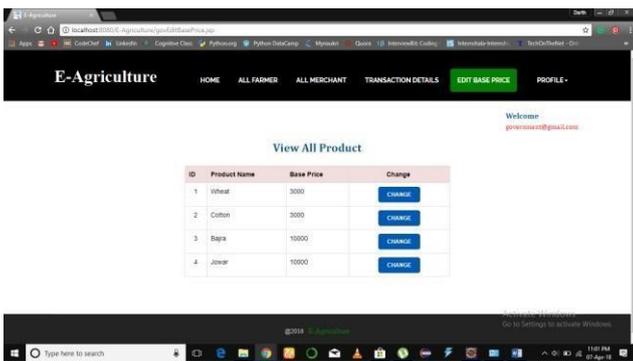


Fig 6 : View all Product

VII. IMPLEMENTATION

The Major Occupation in India is the Agriculture, the people involved in the Agriculture belong to the poor class and category. The people of the farming community are unaware of the new techniques and new arrivals in the agriculture departments, which would direct the world to greater heights in the field of agriculture. Though the farmers work hard, they are cheated by agents in today's market. Now a days, world is like a global village due to computerization and internet facility. Here, we are interested to introduce a new concept for advanced, well- educated and interested farmers who are adopting latest technologies in farming. We are providing the facilities like guidance regarding weather report and forecasting, market updates of different commodities, facilities and subsidies provided by central and state Govt., facilities and subsidies provided by non-government organizations in India and abroad. The government sees all the details of the merchant to prohibit the black market of the grains. Our project intended to provide reliable and efficient platform or Environment to interact with different marketing facility. Farmers are able to sale their goods (Crops, vegetables, fruits etc.)to the merchants giving the highest prize related to the product and the government authorizes person can watch all the transaction happened between the farmer and the merchant. The government has all the authority regarding to the transaction happened in our project. This serves as an opportunity to solve all the problems that farmers face in the current world. In this paper we have build a project in which farmers and merchant can register themselves using there basic personal information such as name email ,govt. id and contact number. After logging in farmer can upload there information about there product such as stock available photos and market retail price. In merchant login merchant can view the desirable product and there market price and nearby farmers available. During this process merchant send request to required farmer. After viewing the request of the merchant farmer accept there request and start communication. Both farmer and merchant start negotiating and end up closing a deal. After a decent deal both can trade the business .

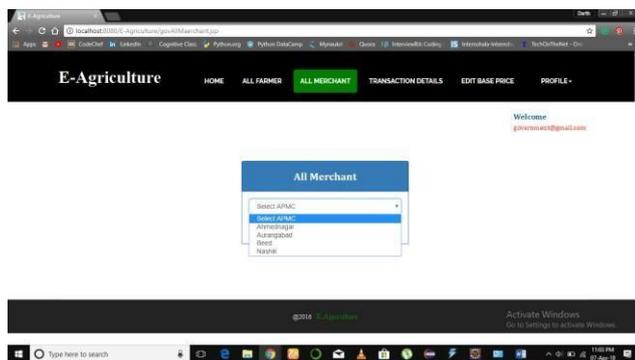


Fig 7: All Merchant Page

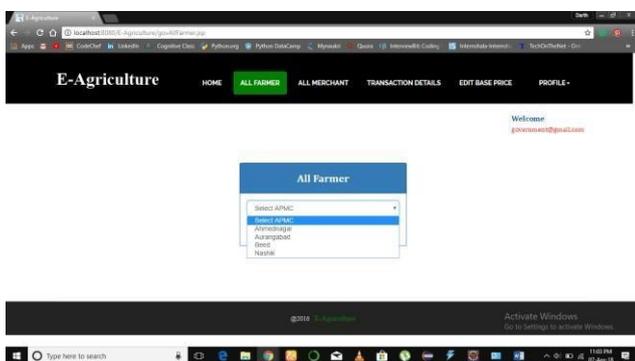


Fig 8: All Farmer Page

VIII. CONCLUSION

In this paper, we have exhibited E-Business in Agriculture for effective communication between Merchants and Farmers for providing more help to all farmers and to stop black marketing. This project will be helpful for farmers to know more about market information. The site will guide the farmers in all the aspects, the current market rate of different products and the earned profit for the sold products, access to the new farming techniques through E- learning and centralized approach to view different government's agriculture schemes including the compensation schemes for farming. The main approach of this project is to prohibit the black marketing of the granary products. The government authorize person has easy see the whole transactions between the farmer and the merchant. Through this they will be always in touch of new technique and trends of farming. But some extends, new user may feel some kind of stress about its use. Overall this system is faster, secure and comfortable.

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