Online organic food shopping using Artificial Intelligence and Android

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ABSTRACT

Online Organic Food Shopping Using AI and Android Application, can lead to error-free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather concentrate on the record keeping. Thus it will help society in better utilization of the resource. The society can maintain computerized records without redundant entries. That means the one need not be distracted by information that is not relevant while being able to reach the information. The valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically, the project describes how to manage for good performance and better services for the clients.

Keywords — Artificial Intelligence, Organic food

1. INTRODUCTION

It is a webpage and mobile application which helps to particular farmers to sell their products. The “Online Organic Food” has been developed to overcome the problems prevailing in the existing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by its existing system. Moreover, this system is designed for the particular need of the company to carry out the operation in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all, it proves it is user-friendly. Online organic food, as described above, can lead to error-free, secure, reliable and fast management system. It can assist the user to concentration their other activities rather concentrate on the record keeping. Thus it will help the organization in better utilization of resources.

Every organization, whether big or small, has challenges to overcome and manage the information of stocks, vegetables, customers, bill, and payment. Every online vegetable store has different vegetable needs, therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning and will help you ensure that your organization is equipped with the right level of information and details for future goals. Also, for those busy executive who is always on the systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources. This project shows the information about farmers and details of the farmers. This information and quality of the product are surveyed by us. We create the farmers profile based on products which farmer is growing which product and give the product rate and then we buy the products from farmers.

This project shows the information of products and details of the farmers. This information and quality of the product are surveyed by us. We create the farmers profile based on products which farmer is growing which product and give the product rate and then we buy the products from farmers. After uploading the products to the website and application we will set the product of the rate. We are creating the profile of the farmers based on their product qualities and deliver must be done on time and provides a better quality of the product. Based on the quality level the rate will decrease. Then the customers visit the website and check the quality of the product and we accept the requests from customers as and produce the product within time.

1.1 Objectives of the proposed work with justification

The main objective of the project on Online Organic Food is to manage the details of vegetables, stocks, order, customer, payment. It manages all the information about vegetables, bill, and payment. The project is totally built at the administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the vegetables, stocks,
bill, and order. It tracks all the details about the order, customer, payment etc.

It may help in to collect perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passing year perfectly and vividly. It also helps in current all works relative to Online Organic Food. It will also reduce the cost of collecting the management and collection procedure will go on smoothly. Our project aims at business process automation that is we have tried to computerize various processes of Online Organic Food.

Creates the profile of the farmers and provides the exact details of the product. It helps in increasing the farmer’s income. The farmer’s product remains within the local economy by being locally produced and eliminates the need for long distance transportation. After surveying, we will check the quality of the product and then upload it to the farmer’s profile. It also helps local farmers and small business owners.

The proposed system assures the quality of the product and there can be no fake farmers profile because it will be surveyed by us. In some areas, there cannot be an adequate amount of crops grown so we will make sure that the farmers who are able to produce their crops in large quantity will reach the market where there is not sufficient amount of product. Since we are developing website as well as a mobile application and thus there can be many users which will be helpful in rural areas as well as urban areas.

For improving agricultural productivity expert agricultural advice is given to the farmers both in timely and personalized situations. Here, in this system agricultural experts generate the advice by using modern agriculture which is highly knowledge-intensive which also requires timely, reliable and accurate information on natural resource endowments and their

2. LITERATURE SURVEY

The following papers have been analyzed and studied the existing approach and the following issues:

2.1 Marketing research on farmers’ junction: Farmer junction is an India based platform, created to bridge the gap between urban consumers and rural farmers. It is an online farmers market where farmers around the country have one-stop easy access for buying and selling agriculture products without the hassle of middlemen and price cuts. Our goal is to provide superior quality farm products at an affordable price and to bring awareness to farmers on the benefit of selling products directly online with ease.

Disadvantages
(a) No farmers profile.
(b) Registration can be done by anybody.

2.2 Online Fresh Box: Orders fresh box George and Ben love to share their knowledge of health and well-being and see a need for the food industry to change for the benefit of us and our children. We supply organic foods that are free from synthetic pesticides, fertilizers and herbicides. These foods are high in nutrient at a time of nutrient deficiency in both soil and our physical body. It is common in conventional agriculture to grow food on dead soil with synthetic fertilizers that embody only a small spectrum of soil nutrients and the wrong type of nitrogen in the form of nitrates. Furthering our concern is the manufacture of GMO crops that contribute to the global problem of soil depletion. We are also concerned about the signs we are seeing in our youth today with high rates of illness and allergies, poor stomach flora and more.

Disadvantages
(a) No references for alternate prices.
(b) No link with farmers

2.3 Vegetable Market on the Web: Information technology can bring about considerable change in the way systems work in India. Especially systems in which the rural economies cater to the urban consumers for e.g. agro products, vegetables, milk sectors etc. The paper proposes to organize the vegetable market and bring about a change in the way things work. Milk, one of the consumers/buyers of vegetables. The main challenge for the system is to intervene starting with products that are highly dependent on the rural section of the country has developed into such an efficient system that ensures that every household in the country gets fresh milk early in the morning with all due remuneration to the producers. The paper proposes on interface for the current set up and incrementally bring the benefit of improved efficiency.

Disadvantages
(a) Lack of time, late hours of buying results in getting a poor quality of vegetables.
(b) Due to lack of price information, generally, end up buying on the higher side.

2.4 Big Basket: Vipul Parekh, Abhinay Choudhari, Hari Menon, VS Sudhakar, VS Ramesh the founders of the Big basket it is founded on October 2011 bigbasket.com (Innovative Retail Concepts Private Limited) is India’s largest online food and grocery store. With over 18,000 products and over 1000 brands in our catalogue, you will find everything you are looking for. Right from fresh Fruits and Vegetables, Rice and Dals, Spices and Seasonings to Packaged products, Beverages, Personal care products, Meats – we have it all. Choose from a wide range of options in every category, exclusively handpicked to help you find the best quality available at the lowest prices. Select a time slot for delivery and your order will be delivered right to your doorstep, anywhere in Bangalore, Hyderabad, Mumbai, Pune, Chennai, Delhi, Noida, Mysore, Coimbatore, Vijayawada-Guntur, Kolkata, Ahmedabad-Gandhinagar, Lucknow-Kanpur, Gurgaon, Vadodara, Visakhapatnam, Surat, Nagpur, Patna, Indore and Chandigarh Trinity You can pay online using your debit/credit card or by cash / Sodexo on delivery.

Disadvantages
(a) No communication between the farmers and intermediate.
(b) Lack of facilities in rural areas.

2.5 Current status of E-Agriculture and global trends: A Survey Conducted In Transnzoia County, Kenya Peter Namisiko et al.,2013 have proposed as A study which is conducted at the majority of farmers in Kenya who are not able to sell their produce at a market price due to lack of sufficient information available. As, agricultural productivity is being lessened due to the lack of information and resistance developed by agricultural universities. For such farmers to produce and sell their products at market-based competitive prices, information communication technologies (ICT) tools have been availed to them. This is because the development of agriculture is dependent on how fast and relevant information is provided to the end users. The study concentrated in Trans Nzoia County since it is the heart of Kenya.
Disadvantages
(a) Quality segregation is not proper.
(b) Bargaining results in unpleasantness.

2.6 Impact of SMS-Based agricultural information on Indian farmers marcel fachamps et.al. 2012 have proposed as: This paper estimates the benefits of the Indian farmers if the market and weather information is delivered to their mobile phones. And this has been conducted with a randomized experiment in 100 villages of Maharashtra. This service has been sent in by a commercial service called Reuters Market Light (RML). The treated farmers’ associate RML information with a number of decisions they have made in agriculture, and we find that the treatment affected spatial arbitrage and crop grading. But the magnitude of these effects is small. We find no statistically significant average effect of treatment on the price received by farmers, crop value-added, crop losses resulting from rainstorms, or the likelihood of changing crop varieties and cultivation practices.

Disadvantages
(a) Pricing is very high compared to the market.
(b) Quality seems good but no facility of choosing.

2.7 Informative learning of agricultural environment: A brief survey NizarGrira, Michel Crucianu et.al., 2010 have stated as follows: the information [3] that are relevant of the required quality always has the potential of increasing efficiency in all spheres of activity of an Indian farmer, therefore the emerging scenario of the deregulated agriculture, has brought a „need” and urgency to ensure it is an integral part of decision making. Subsequently, exploring IT as a strategic tool for the benefit of rural India of assumed importance. Here the information meets the Indian farmers in general which are documented extensively. The broad information inputs can be classified as:

- **Awareness Databases**: Those that facilitate proper understanding of the implications of the WTO on Indian agriculture,
- **Decision Support Systems**: Information that facilitates farmers to make a proper SWOT analysis to take appropriate decisions,
- **Systems that facilitate Indian farmers to forge appropriate alliances for collective benefit**,

2.8 E-Agricultural Developments: Tnau 2012 Recent publications demonstrate the following: First and foremost, it is essential to provide unambiguous interpretation and implications for ordinary people. The jargon and the language under various articles of WTO require to be distilled by experts and their implications are clear to be spelt out for all the segments of Indian agriculture and allied activities. The implications for all the stake holders and the time frames are to be spelt out.

3. METHODOLOGY
3.1 System architecture
This modelling shows the surveyed farmers profile and gives the product list of the farmers and gives the information about the product and quality also a delivery time of the product. After surveying, we will check the quality of the product and then upload it to the farmer’s profile. Then it can be accessed by the consumer and based on his requirements we can deliver the product.

This project shows the information about farmers and details of the farmers. This information and quality of the product are surveyed by us. We create the farmers profile based on products which farmer is growing which product and give the product rate and then we buy the products from farmers. After surveying quality of the product then it will be uploaded to the website and Android application.

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4. CONCLUSION
We come to the conclusion that our proposed work “Online Organic Food” is designed to help the farmers as well as customers. We are developing the application as well as a website which will help the rural areas as well as urban areas. It helps the farmers to increase their productivity and it will also help the farmers in increasing their income. The product remains the local economy being produced and eliminates the need for long distance transportation.
5. REFERENCES

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[8] orders@freshbox.com.au George and Ben love to share their knowledge of health and wellbeing and see a need for the food industry to change for the benefit of us and our children.

[9] Vipul Parekh, Abhinay Choudhari, HariMenon, V S Sudhakar, VS Ramesh Are the founders of the Big basket it is founded on October 2011 bigbasket.com is India”s largest online food and grocery store.