Green Market Oasis

T. Rani Mangammal[1], T.Abinaya[2], G.Y.Asmetaa[3], M.Josephine Jesila[4]

[1]Assistant Professor, Dept of CSE
[2, 3, 4]Dept of CSE
[1, 2, 3, 4] SSM Institute Of Engineering and Technology, Dindigul,India

Abstract- Organic food products and other organic ingredients are grown without the use of pesticides, synthetic fertilizers, sewage sludge, or ionizing radiation. Conventional fruits and vegetables are often sprayed with pesticides. When peoples buy such fruits and vegetables, these stubborn chemicals remain on the food. The second big difference between conventional and organic food is that many conventional foods are genetically modified or contain genetically modified organisms. Organic food is not easily available in the market. There are only some particular shops where organic food is available. Organic food application is a form of electronic shopping where the buyer is directly online to the seller's computer usually via the internet. To overcome the difficulty of organic food shopping. Proposed the best online organic store which provides organic foods by just sitting at home and follows online mode of shopping. This system has three modules namely, Admin, Seller and User. Admin has authority to add organic product on the website. Seller can register and login into the website view organic product and then booking. After that seller can add food details view the customer's order. Customers can register and login using credentials. Customers have authority to view food, desire products and can add to cart and do payment for it; they can view their previous order history and also can view status of the order.

I. INTRODUCTION

Consumers are more interested in "the green aspect" of items, as well as their impact on the environment, as human awareness for the natural environment grows. On the other hand, customers' primary concerns in purchasing things, particularly food, are becoming increasingly health-related. This appears to be the primary motivator for people to buy organic foods. Food is our body's fuel but health required healthy food. The Indian food business is on the verge of a massive expansion, with its share of global food commerce expanding year after year. Because of its tremendous potential for value addition, the food business in India has emerged as a high-growth and high-profit sector, particularly in the food processing industry. The Indian food market is the sixth largest in the world, with retail accounting for 70% of total sales. The Indian food processing sector, which accounts for 32 percent of the country's overall food market and is rated fifth in terms of production, consumption, export, and predicted growth, is one of the country's largest industries. The term "Organic" has originated from the term bios from Greek, which means giving meaning to life or way of living. It refers to the methods used to produce particular foods. The term "organic" refers to an overall farm management and food production system that aims for sustainable agriculture, high-quality products, and the use of environmentally friendly processes, as well as human, plant, and animal health and welfare. In this application have mainly 3 modules. Seller can easily buy organic product from farmer. With this application, purchasing organic food is simple for consumers.

II. RELATED WORK

TITLE: A Theoretical Implementation: Agriculture-Food Supply Chain Management using Blockchain Technology

AUTHOR: S. Madumidha; P. Siva Ranjani; U. Vandhana;
The important food crops that are cultivated in Tamil nadu are rice, cotton, tea, coffee, redgram, greengram, blackgram, jowar, bajra, maize, sugarcane, coconut, etc., Many technical implementations has been brought in the AFSC and farmers are also ready to welcome them. As the Supply Chain involves many problems like the sudden increase in demand for a product occur and the producer runs out of stock, Supply Chain management becomes necessary. Also, customer satisfaction can also be achieved in a better way through Supply Chain Management. Supply Chain which involves all processes, flow of goods, information, etc., Fig.1 explains that the people involved in these activities such as producers, suppliers, distributors and retailers has to work together to supply a product to the consumer satisfying their needs. The traditional Supply Chain's traceability is based on centralized systems like cloud database uses IoT that provides no transparency and leads to security threats, tampering, data loss, etc., The main drawbacks of traditional Supply Chain are 1. Food safety cannot be assured at any stages 2. The detailed information about the origin of the product will not be available 3. Failed to provide transparency and traceability 4. Controllability – Life span of Control

III. PROPOSED WORK

The innovative idea behind the proposed Organic Food Ordering application is to completely change how people find and buy organic products. With the use of this app, consumers can easily peruse a large assortment of organic food products, including dairy products, fruits, vegetables, and pantry essentials. Customers can quickly browse through different categories, examine product descriptions, and add products to their cart with only a few taps thanks to the user-friendly design. Transparency is given priority by the app, which offers comprehensive details about each product's origin, including its organic certification and agricultural methods. The software supports sustainable agriculture methods and guarantees freshness and quality through a smooth connection with nearby organic farms and suppliers. Additionally, the app offers flexible delivery options, which improves convenience for time-pressed customers by letting users plan deliveries at their favourite times or choose pick-up locations when available. The Organic Food Ordering App seeks to facilitate access to wholesome, sustainably sourced food options while encouraging good eating habits in a user-centric way.

IV. MODULES

Farmer

- Register

There is registration form available where new farmer can create their account by providing required information to the system. The registration form details are like name, email, gender, mobile number, address, and etc. These details are stored in the database. And then can getting to the username and password in the system.

- Login

In this module, the farmer can login the system using his/ her user name and password.

- Add Organic Product

The organic food details module offers comprehensive information on organic food products, catering to consumers' growing interest in healthier and environmentally sustainable options.

- View Booking

In this module, the farmer can view the booking information like product name, quantity, price, image details etc.

Seller

- Register

There is registration form available where new seller can create their account by providing required information to the system. The registration form details are like name, email, gender, mobile number, address, and etc. These details are stored in the database. And then can getting to the username and password in the system.

- Login

In this module, the seller can login the system using his/ her user name and password.

- View Product

In this module, the seller can view the product details like product name, id, image, price, quantity and product description etc.

- Booking / Payment

Customers can reserve and buy organic products through an online platform with ease thanks to the product booking and payment module. This module makes the booking process easy for customers by letting them browse the products that are offered, choose the things they want, and enter booking data like quantity, date, and location. It offers a safe payment gateway so that users may finish purchases with a variety of payment options, such as online payment systems and credit/debit cards.

- Add Food Details

In this module, the seller can add the organic food details like food name, Id, price, quantity details and description details etc.

- View Booking

In this module, the seller can view the booking details like, food details food name, price, quantity, total amount and customer details.

- Update Delivery Status

In this module, the seller can update the delivery status to this application.

User

- Register

There is registration form available where new user can create their account by providing required information to the system. The registration form details are like name, email, gender, mobile number, address, and etc. These details are stored in the database. And then can getting to the username and password in the system.

- Login

In this module, the user can login the system using his/ her user name and password.

- View Food Details

In this module, the user can view the food details like food name, id, image, quantity, price details and description details etc.

- Booking

A particular feature created to make it easier to reserve and buy organic food goods online is the organic food booking module.
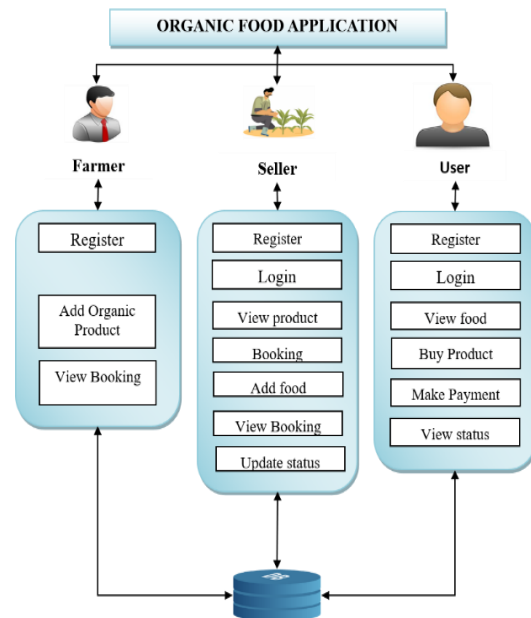
- Payment

In this module used to make payment. This module contains user's card details like name, card no, amount etc.

- View Status

In this module, the user can view the delivery status through this application.

V. SYSTEM ARCHITECTURE

VI. CONCLUSION

In conclusion, the development and implementation of an organic food ordering application represent a significant step forward in meeting the growing demand for healthy, sustainable food options. By providing a user-friendly platform dedicated to organic products, we empower consumers to make informed choices about their food purchases while supporting local farmers and producers committed to organic practices. Through transparent sourcing information, convenient ordering features, and a seamless user experience, our application not only simplifies the process of accessing high-quality organic goods but also fosters greater trust and engagement within the organic food community. Ultimately, this initiative contributes to promoting healthier lifestyles, reducing environmental impact, and advancing the growth of the organic food industry in alignment with evolving consumer preferences and values."

REFERENCES

[1] Heinold, Brian. "A practical introduction to Python programming." (2021).

[2] Kneusel, Ronald T. Practical deep learning: A Python-based introduction. No Starch Press, 2021.

[3] Dhruv, Akshit J., Reema Patel, and Nishant Doshi. "Python: the most advanced programming language for computer science applications." Science and Technology Publications, Lda (2021): 292-299.

[4] Sundnes, Joakim. Introduction to scientific programming with Python. Springer Nature, 2020.

[5] Hill, Christian. Learning scientific programming with Python. Cambridge University Press, 2020.

[6] https://medium.com/javarevisited/10-free-python-tutorials-and-courses-from-google-microsoft-and-coursera-for-beginners-96b9ad20b4e6

[7] https://www.bestcolleges.com/bootcamps/guides/learn-python-free/

[8] https://www.programiz.com/python-programming

[9] https://realpython.com/

[10] https://www.codecademy.com/learn/learn-python