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Kisan Seva Kendra a Web-based Application

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Abstract: ***All humans mainly rely on cultivation for food. Agriculture acts as a backbone for many countries' economies One of the key factors of economic growth in Ghana is agriculture. It is believed that the agriculture sector forms a vital part of building a resilient economy. Food is an essential component of our daily existence and a significant portion of it is supplied by farms. The hard work of farmers who grow and cultivate crops sustains countless lives across the country and provides them with a source of income. Unfortunately, due to intermediaries involved in the selling of their final products, farmers often struggle to make a profit and are forced to live in poverty. Through 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 in the prices of the products currently available within the market because the profit will directly reach the farmers pocket. It will also provide personalized views for farmers, suppliers, and admin by their different logins by that handling of the webpage will be comfortable.***

Keywords: Agriculture, Resilient Economy, Farmers, Web-Based Application.

I. INTRODUCTION

As we move into the modern era of technology, engineering-related applications have the potential to significantly enhance society. With smartphones being a ubiquitous tool for completing daily tasks such as shopping, bill payments, and work management, we are immersed in a world of endless possibilities and convenience. The idea of this project is to add its features into the lives of the people so that the food they buy can be bought directly from the farm and this would enable profits to reach farmers directly. In India, the supply chain for farm products often involves intermediaries, leading to indirect sales for farmers. This arrangement often leaves farmers impoverished while intermediaries reap the profits, perpetuating wealth inequality. However, by utilizing a direct-to-customer application, we can disrupt this supply chain and allow farmers to connect directly with customers for a fairer and more profitable selling experience. The farmer's direct interaction with customers translates to affordable prices for their products, benefiting both parties. This mutually beneficial arrangement allows customers to save money while enabling farmers to earn the profits they deserve.

II. LITERATURE REVIEW

Agriculture decision support system using data mining [2017] the purpose of this system is to help the users to decide which crop can be grown. The membership-based system is used and customizes each user registration data. The system has a module that keeps up the data of the crops grown in past from different sources and the crops which can be grown [1]. The artificial neural network (ANN) is used for this system. The feedback system helps users to request changes required in the system and to complain about errors. E-farming helps farmers to sell their products in the overall country. Farmers should have some basic knowledge about how to use this website[2]. This site guides the farmers, the booming market rate of products, the total sale of the farmer, and the earned profit by the sold products, learning new farming techniques by e-learning and also knowing about different governments' agricultural schemes.

To know information about the markets and products is made possible through the SMS facility. E-Agriculture Information Management System [2014] engages in the design, improvement, estimation, and application of inventive ways to use developing information and communication technologies. "E-Agriculture" is a developing field in the connection of agricultural information services, improvement, and capitalism which is focusing on farming facilities, technology distribution, and information developed through the Internet.

We have made several researches works regarding our idea and have mentioned all about the papers and their research works in detail below. In, in order to handle water scarcity in underground, tanks, rivers, etc., and for the proper utilization of water, they have developed an algorithm along with moisture and temperature threshold values for controlling the quantity of water by programming with the micro-controller-based gateway.

With the aid of photovoltaic panels, the system is powered on. [3] Cellular internet interface-based duplex communication is established thereby allowing inspection of data and scheduling of irrigation that will be programmed with the aid of a web page. In, they have mentioned the possibility of usage of greenhouse parameter control and monitoring in precision agriculture which is made possible by a wireless sensor networking environment and this is considered to be a major technological development. In, they have researched various criteria in the agricultural field and they have found that crop yield is very much decreasing every day. In order to reduce the extra added manpower for increased production, technology usage plays a vital role in it.

It reviews three main research areas. Firstly, it traces the agricultural problems, technology adoption role, and issues through extension services particularly in India and in the world in general. [4] Secondly, by finding the factors that are affecting the extension services through proper use of ICTs or determining the factors of transfer of technologies. By doing so, this chapter helps build the fundamental concepts of ICT and decision-making at all levels of the agricultural decision-making process. Lastly, it presents a comprehensive review of various models used by previous researchers in facilitating the information content concerned with farmers in retrieving the information needed in their decision-making process.

III. PROPOSED SYSTEM

There are two modules in the proposed system:

1) Buyer
2) Admin / Farmer

A. Module 1 (Buyer)

1) The buyer will have to first register on the website. After that, they will login to their profile by filling in their login credentials.
2) Then they will get access to the website to buy any product from the farmer.

Buyer: Buyer module contains:

- Log in and Sign up
- Buyer details
- Post Advertisements/complaints
- Crop Received

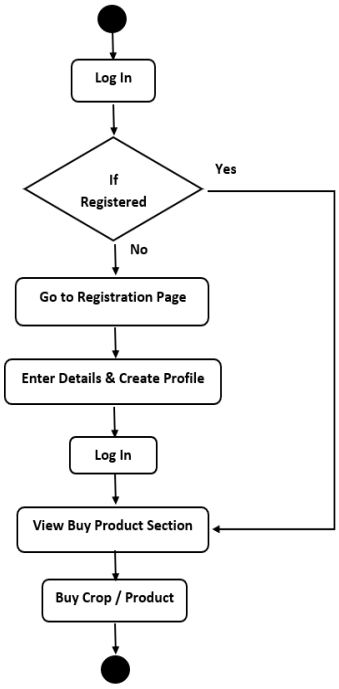


Fig 1. Activity diagram for buyer side

B. Module 2 (Admin / Farmer)

1) The Admin / Farmer will have to first register themselves on the website through an admin login. After that, they will login to their profile by filling in their login credentials.

2) After login they will redirect to the crop details page where they will have to add the farmer's crop details that they want to sell.

3) Admin/ Farmer module contains: Farming Tips, Sell Crop Section, Sell Crop Details, View Complaints

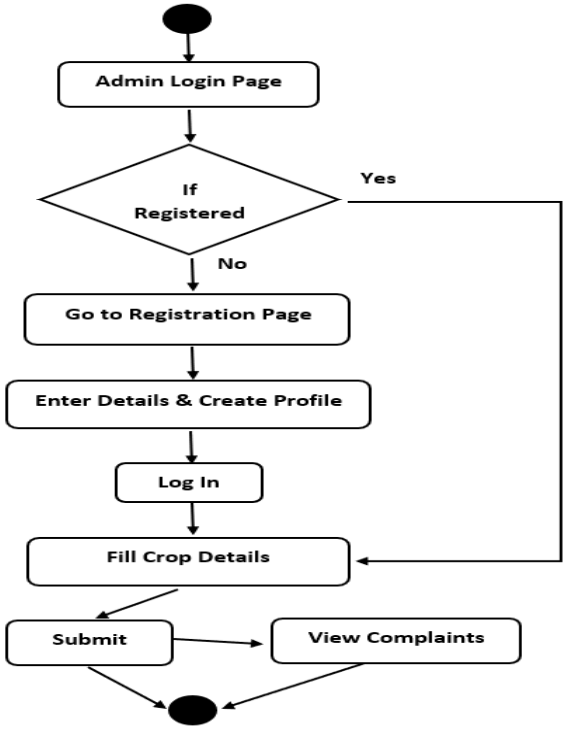


Fig 2. Activity diagram for admin side

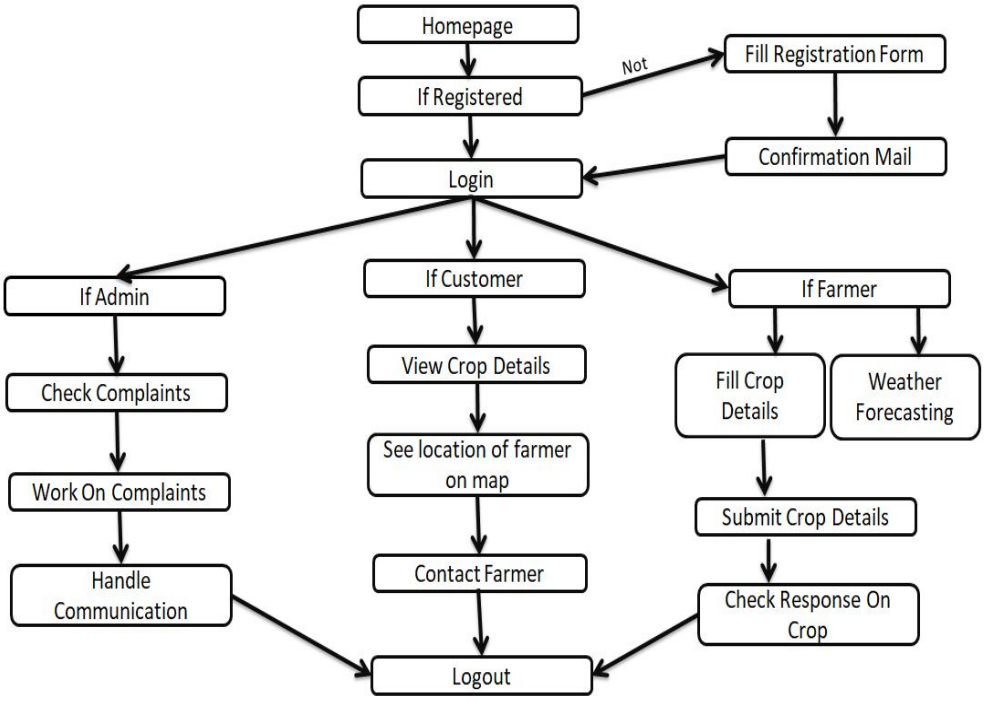


Fig.3 – PROPOSED SYSTEM

IV. IMPLEMENTED SYSTEM

A. *Home Page*

1) This is the first page that will be shown after opening the website.

2) Home page consists of a navigation bar that has different sections like:

- About
- Service
- Product
- Contact
- Login
- Admin Login

B. *Services*

The services Section consists of two major components:

1) Fresh Fruits Section

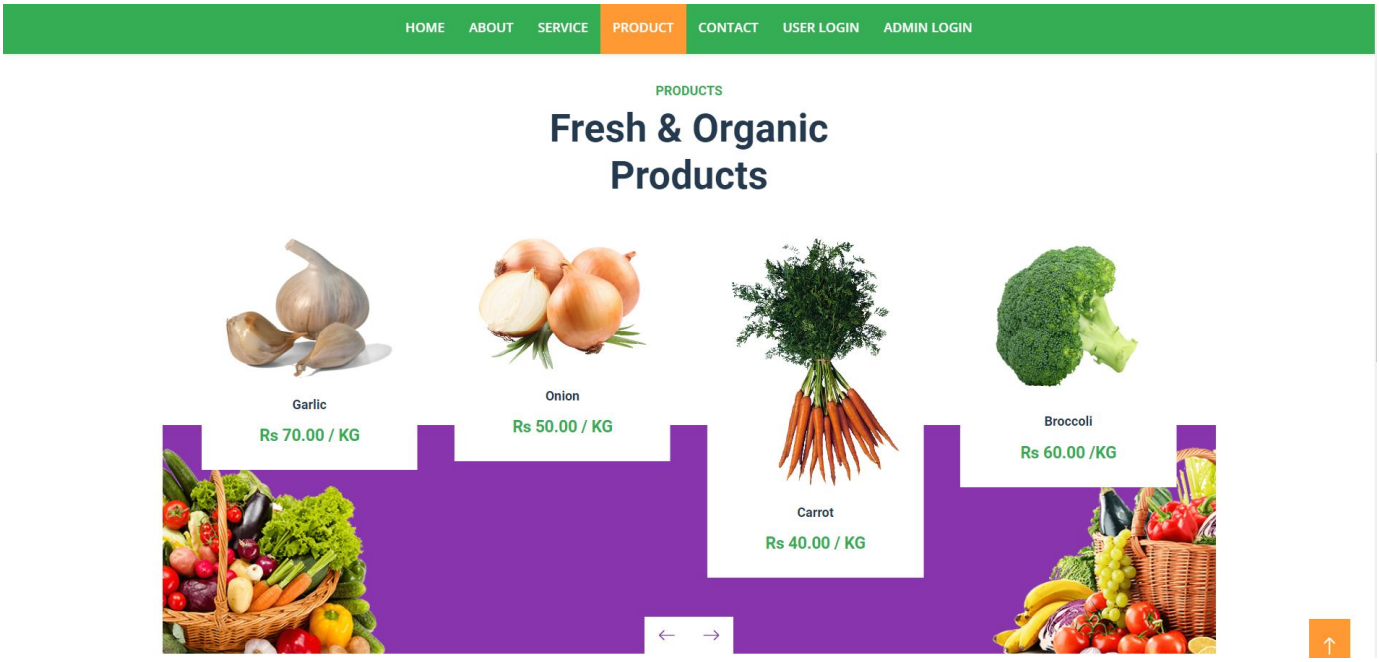
2) Fresh Vegetable Section

a) Fresh Fruits Section provides the service of buying fresh fruits to the customers as per their choice and requirements. Here, a variety of fruits are available to fulfill the customers' demand.

b) Fresh Vegetable Section provides the service of buying/purchasing fresh vegetables to the customers as per their necessity. Good, healthy vegetable stocks are maintained to satisfy the need of customers.

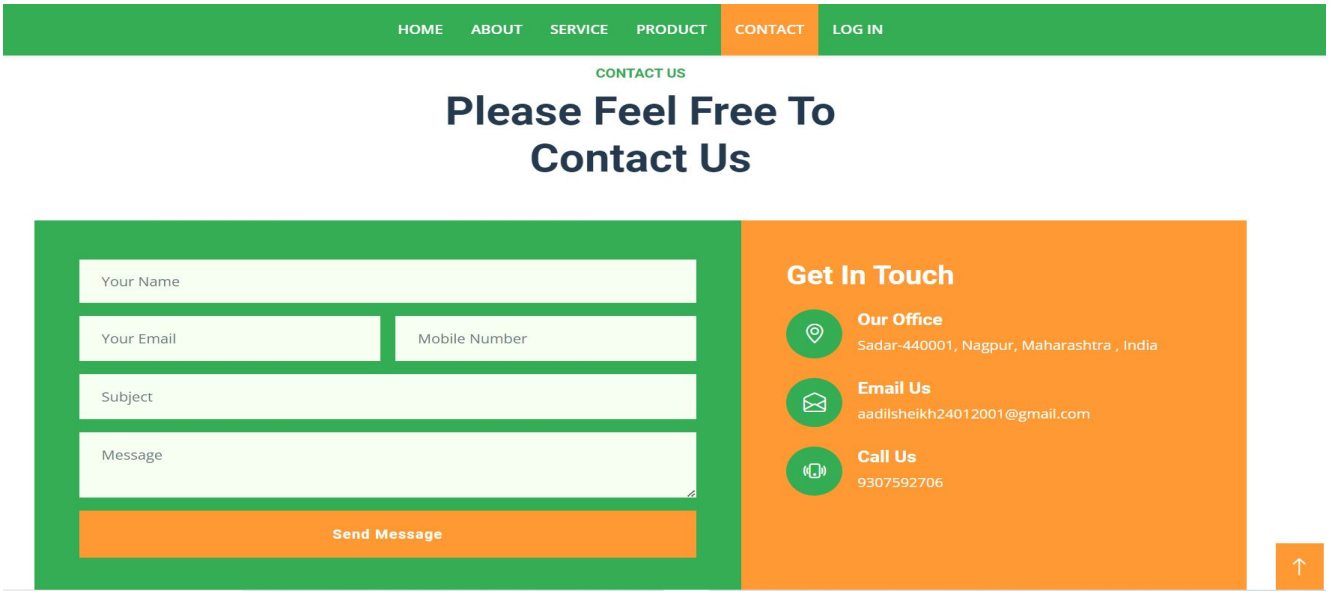
C. Product

This Section consists of the services that are provided by the farmers to the customers. All goods which are available are uploaded in the product section by the farmers so that the customer could view their price and other details and add it to their requirements and buy it. Prices are shown below the product's image so that it will be convenient for the customer to check.



D. Contact

If anyone customer or farmer has any query regarding the crop, product or the website then they can write their query there and submit it. Then the authority will work on that query and it will be resolved and the confirmation will be send to that particular person.



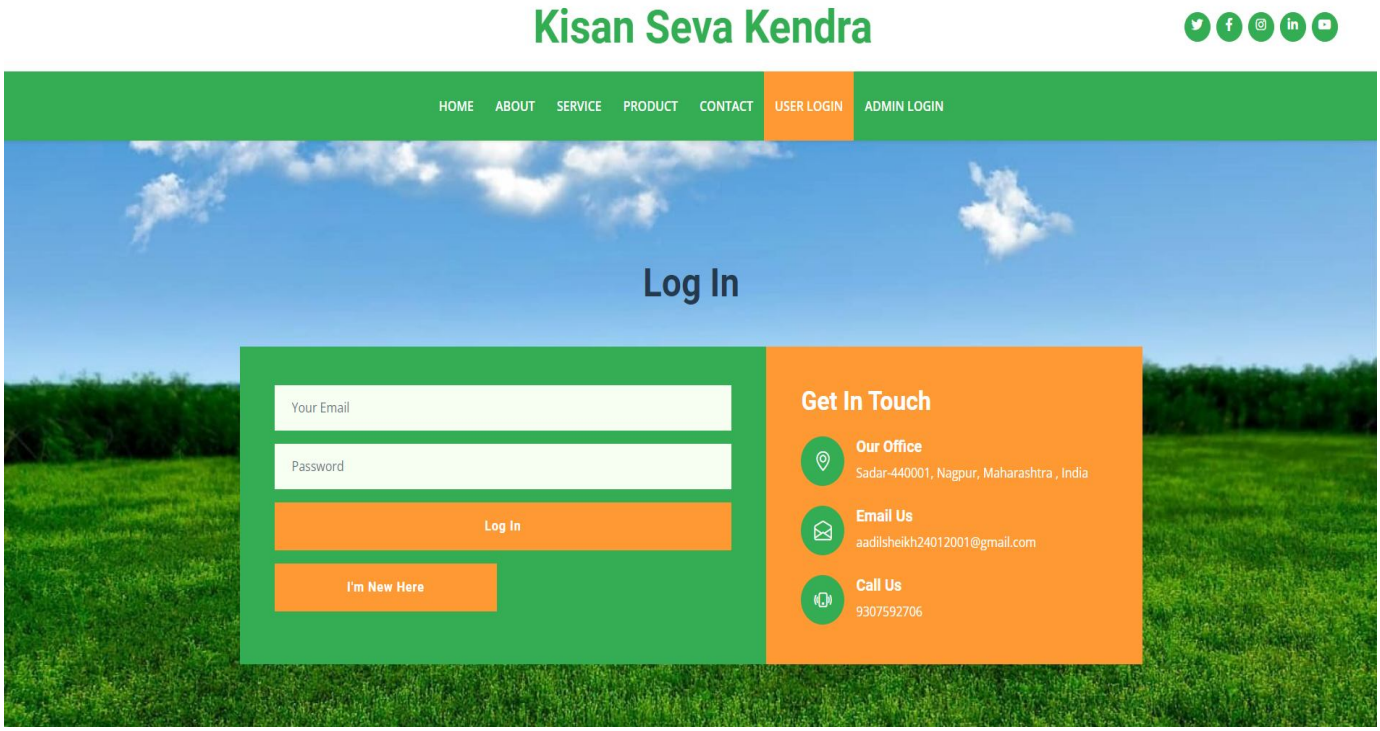
E. Login

There are two different logins:

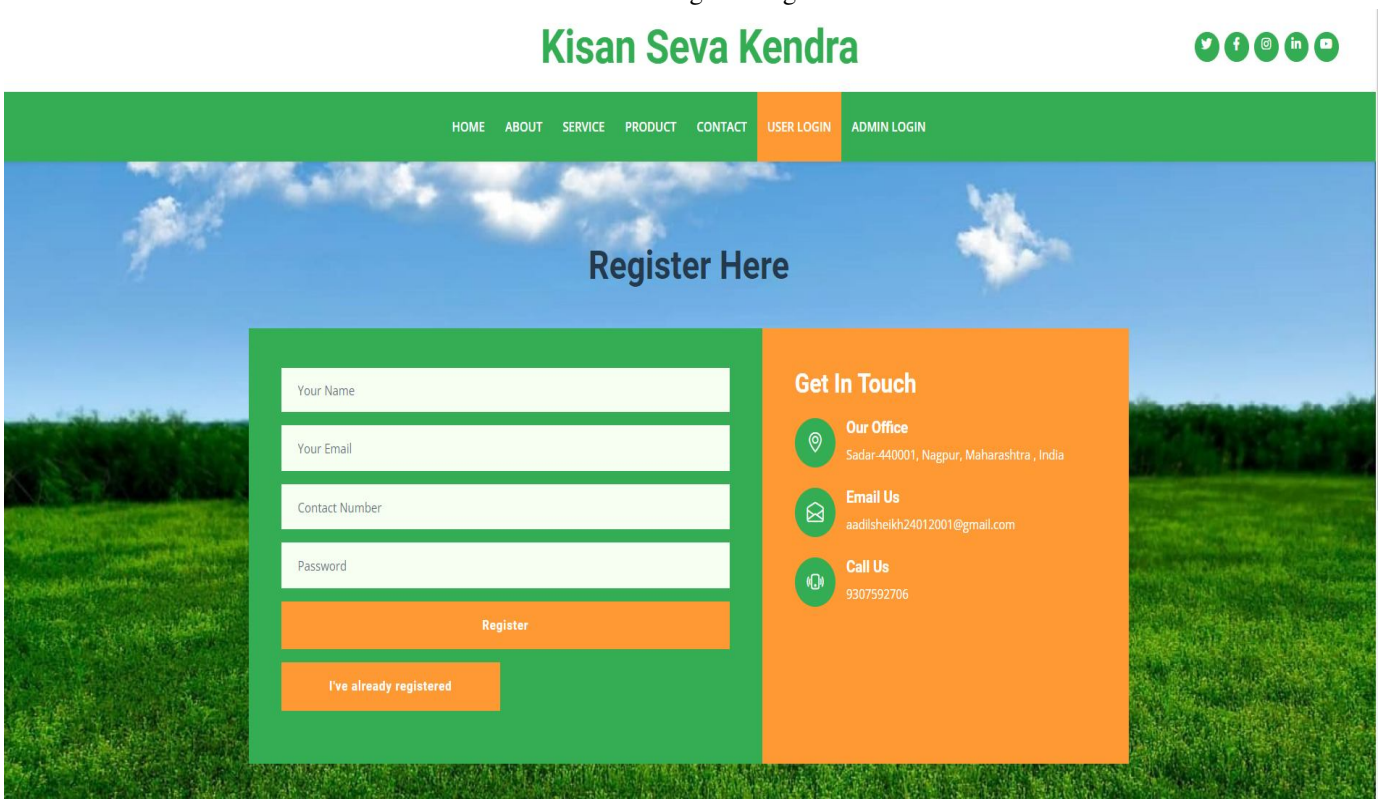
- User Login
- Admin Login

1) User Login

The customer who will buy the product will first have to login into the website. If he doesn't have an account he first has to register through the login page and fill in all the details and create an account.



User Register Page

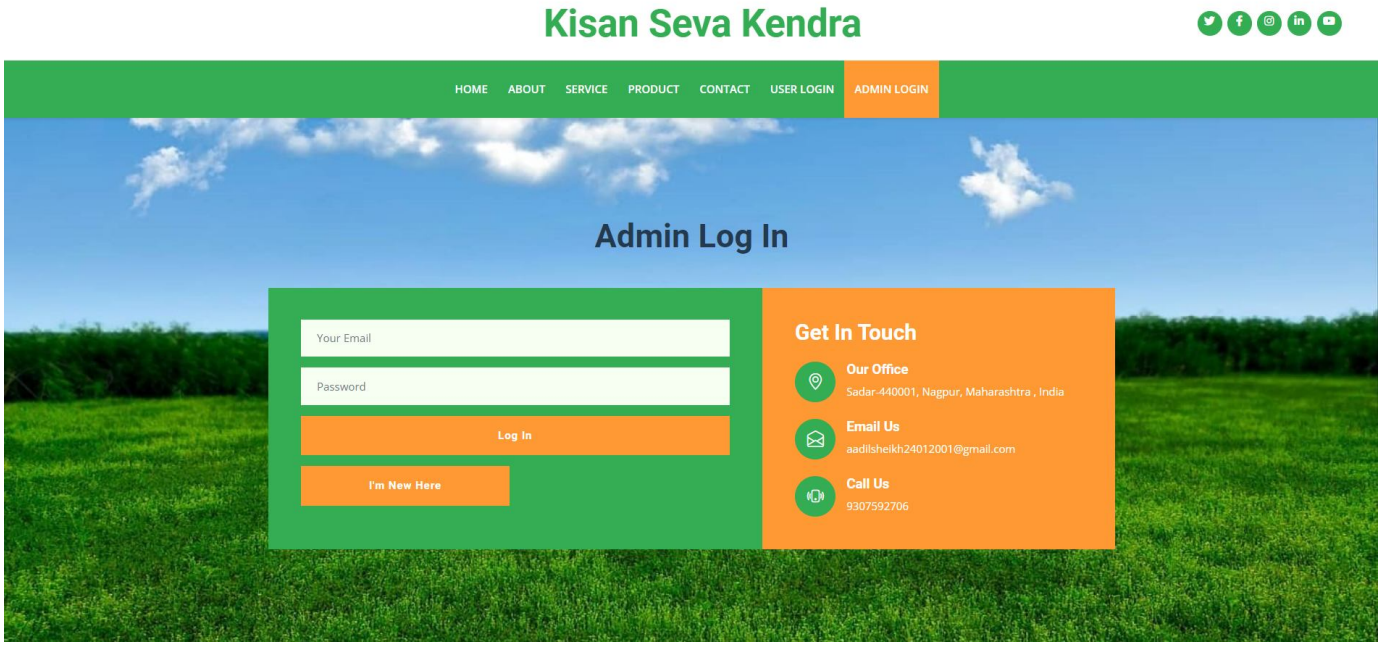


2) Admin Login

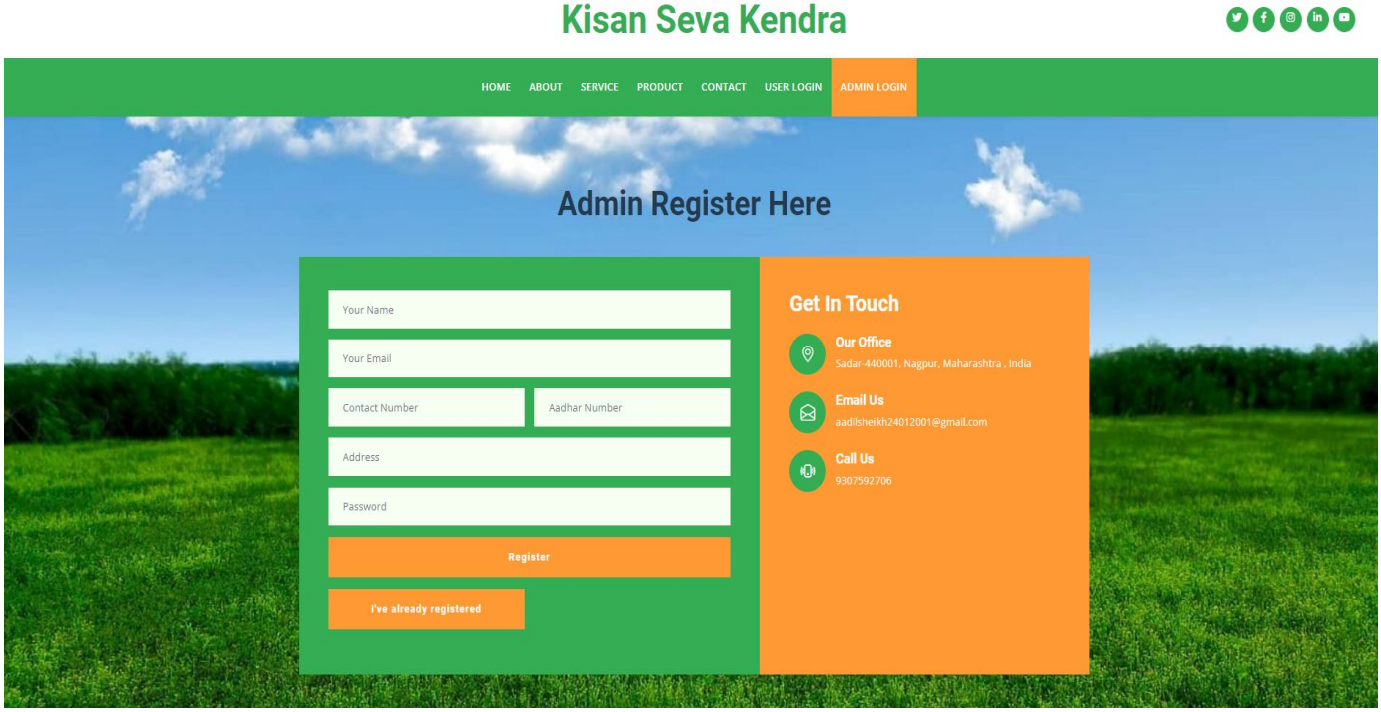
The farmer who wants to sell his product will have to make his account in this website. First, he has to register by filling all the details and then login in the website.

After login in the website he will redirect to the crop details page where the farmer has to fill all the details of the crop or the product that he wants to sell.

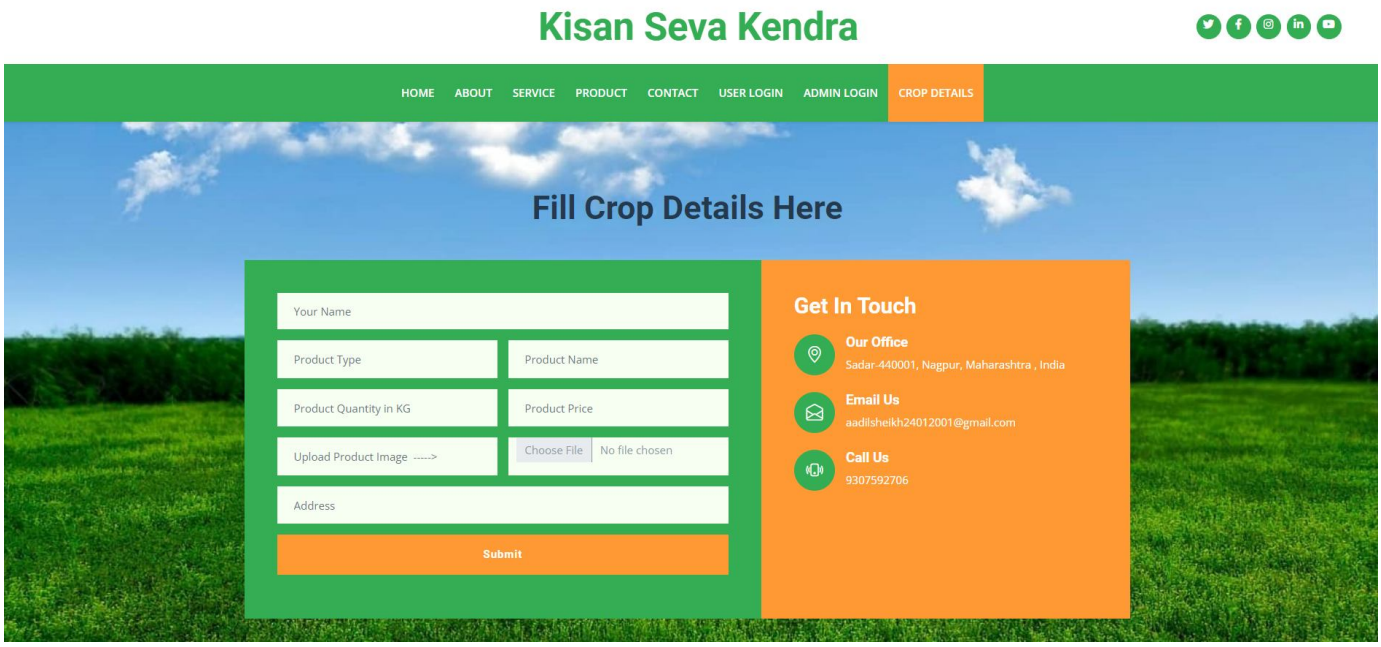
Admin Login



Admin Register Page



Crop Details Page



V. CONCLUSION

In conclusion, this project will help farmers reach their homes in their locality or nearby cities. This project uses a simple database and reference algorithm for displaying images of products related to a buyer's purchase. This project also implements customer login, and farmer login which makes this project user-friendly. With the help of this application, people will have access to fresh and organic raw materials and will also be able to explore parts of their locality and nearby cities. This application will also help farmers and buyers build a relationship by means of business and also help farmers gain direct profit from the business relationships.

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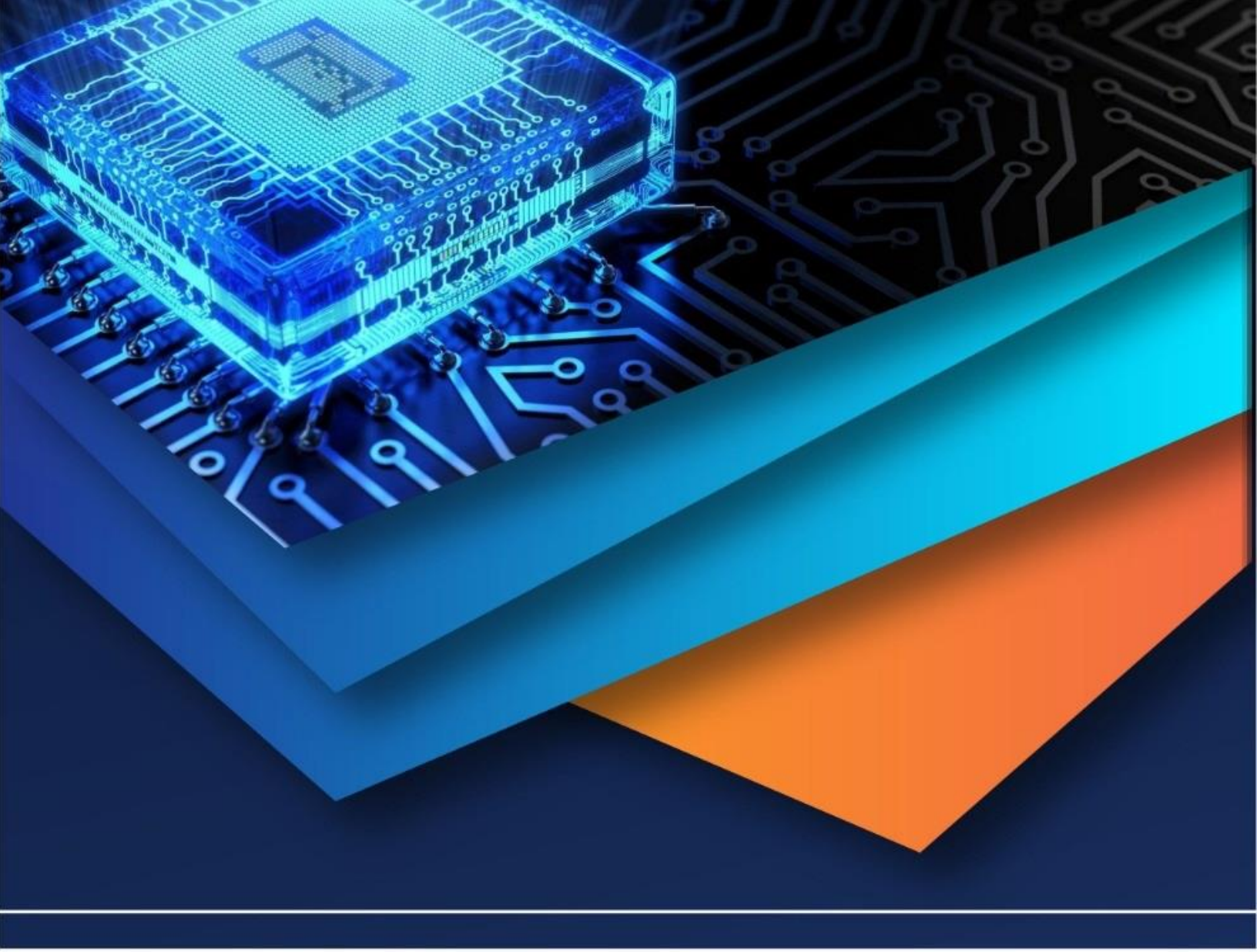

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