

## 1 Introduction

In this Website We are giving detailed information about agriculture and its operations . The Website is designed in an interactive manner and is able to give the farmer the knowledge for better quality crops and best sale prize. our website also helps to connect farmer with the new technology and make farming task simpler A different section has provided for contacting the customers for different types of grains,vegetables, and fruits. Farmers can connect to the world via technology and can export Agri-products. Water scarcity farming can be achieved because of our FARM-TECH project. Farmer's is online shopping website where buyer can buy farm produce directly from farmer's . farming system is defined as a complex inter related matrix of soil ,plant,animals, implements,power,labour capital and other inputs controlled in part by farming and influenced to varying degree by political,economic,institutional and social forces that operate at many level.

An online Farming system refers to a digital platform or application that connects farmers,agricultural producers, and stakeholders in the agricultural industry through the internet. It facilitates various agricultural activities such as a crop management, livestock monitoring, market access, and resource optimization using digital tools and technology. online farming system often integrate data analytical , remote sensing , and communication tools to enhance efficiency.

### 1.1 Abstract

An online Farming System is digital platform that facilitates agricultural operations and management through the internet. It integrates various technologies to streamline Farming processes, including crop monitoring , resource management weather forecasting ,and market analysis. This system enables farmer's to access real-time data, make informed decision ,optimize resources usage, and enhance overall productivity in the agricultural sector. Farmer's E-market is online shopping website where buyer can buy farm produce directly from farmers. Various types of farmer's products are available for purchase at reliable price. Farmer's E-market basically focuses on user friendly interfaces and promotes user to purchase the product faster. It has registration facility and any information. Security is given utmost importance while designing the website. If any user is not valid or in any kind of illegal work in the website is blocked by the admin. Even the user is not activated unless admin approves. for any query buyer and producer both can contact admin through mail. they can use this facility any time.

## 1.2 Objective of project

1. Efficient Farm Management: Streamline and optimize farm operations through digital tools and automation .
2. Enhanced Productivity: Implement techniques and technologies to increase crop yield and overall agricultural output.
3. Cost Reduction: Utilize online Platform to compare prices,access cost-effective inputs ,and minimize expenditure.
4. Market Access and information: Provide farmers with real-time market updates, tends ,and opportunities to make on formed decision about selling their produce.
5. Weather and Climate Data Utilization: Integrate weather forecasts and climate data to help farmers plan their activities and mitigate risks associated with changing Weather pattern.
6. Crop Diversification: Promote the diversification of crops based on market demand, climate suitability and sustainability to reduce risks and enhance resilience.
7. Suitable Farming Practices: Promotes Eco-friendly farming methods ,conservation of resources , and sustainable agricultural practices.
8. Financial Inclusion and Support: Enable access to financial services, loans , and grants to support farmers in expanding their operations and investments.

## 2 Literature Survey

Sr. No	Title of the Paper	Authors	Publisher	Paper Gist
1.	Online Farming System	Ningning Ge, Hui Li, Lingwang Gao ,IP Mist Lab ,College of Agriculture and Biotechnology China Agricultural University , Beijing, P.R.China	2010	<ul style="list-style-type: none"><li>The Present era is modern age And information technology has A huge contribution in this modern age.most people in the world now rely on information online.</li></ul>
2.	Online Farming System	K. Sathish Kannan, G. Thiliagavathi	2013	<ul style="list-style-type: none"><li>Farming System does not provide proper guidance to former's how to sell their product through online.</li><li>The current system does not provide classes to former's to get knowledge about how to operate computer.</li></ul>
3.	Online Farming System	Abhishek A. G. Department of Information Technology , Eshwari Engineering College, Chennai , India agabhishek@gmail.com	2016	<ul style="list-style-type: none"><li>The smart farming system should be used so that the farmers can easily get all the information from the farm.</li><li>farmers will be able to access agriculture-related information from the smart farming system, not just from any part of the.we talked to ordinary farmer's and agricultural entrepreneurs ,about the art farming system and they welcome the initiative .</li></ul>

## 2.1 Existing System

Platform for buying/selling agriculture products. Links to Social media profiles . sharing option for website content. Personalized space for registered users . Quick access to relevant tools or information . Incorporates a feedback system for users to share their thoughts on the platforms effectiveness, allowing for continuous improvement based on user experiences.

key Features:

### A) User Registration and Login:

- Users need to register on the website to create an account. After registration, they can log in using their credentials.

### B) Product Catalog:

- The website has a catalog showcasing different types of plants, seeds, and other agricultural products available for purchase. Each product is likely to have detailed information, including images, descriptions, and prices.

### C) Search and Filters:

- Users can search for specific products or use filters to narrow down their options based on criteria such as plant type, seasonality, or price range.

### D) Shopping Cart:

- Users can add products to their shopping cart as they browse the website. The shopping cart typically displays the selected items, quantities, and total cost.

### E) Checkout Process:

- Once users are done shopping, they proceed to the checkout process. They provide shipping details and choose a payment method.

### F) Payment Gateway Integration:

- The website is likely integrated with a secure payment gateway to facilitate online transactions. Users can use credit/debit cards, digital wallets, or other payment methods.

## 2.2 Proposed System

Farmer's can open their site and sell the agricultural products online farmer's is online shopping website where buyer can buy farm produce directly from farmer's various types of Farmer's product are available for purchase at reliable price. Farmer's Basically focuses on user friendly interfaces and promotes user to purchase faster. It has registration table is very secure and no one can access the information .Security is given atmost importance while designing.

Key Features:

A) User Profiles and Farm Management:

- personalized profiles for farmers to manage and track their farm ,Crop,livestock, and activities.

B) Crop Planning and Monitoring :

- Tools to plan planting schedules,monitor growth stages ,and optimize crop management practices.

C) Marketplace and price Tracking:

- Access to an online marketplace to buy/sell produce and track market prices for informed selling decisions.

D) Resources Management:

- Efficient allocation and tracking of resources such as Water ,fertilizers, pesticides , and equipment.

E) Sustainability Monitoring:

- Tools to assess and monitor the sustainability of farming practices ,promoting Eco-friendly approaches.

### 3 Requirement Analysis

#### 3.1 Hardware and Software Requirement

Sr . No	Name of Resources/ material	Specification	Quantity	Remark
1.	Hardware	RAM 4GB Intel core 13 or above, Hard disc 16 GB ,Windows 8 above,	1	To type the data
2.	Internet	2 mbps	1	To Collect information
3.	Software	HTML ,CSS, Google Chrome, Firefox	1	To compile and run the program
4.	Database	XAMPP	1	To Store the data

## 4 System Design

### 4.1 System Architecture

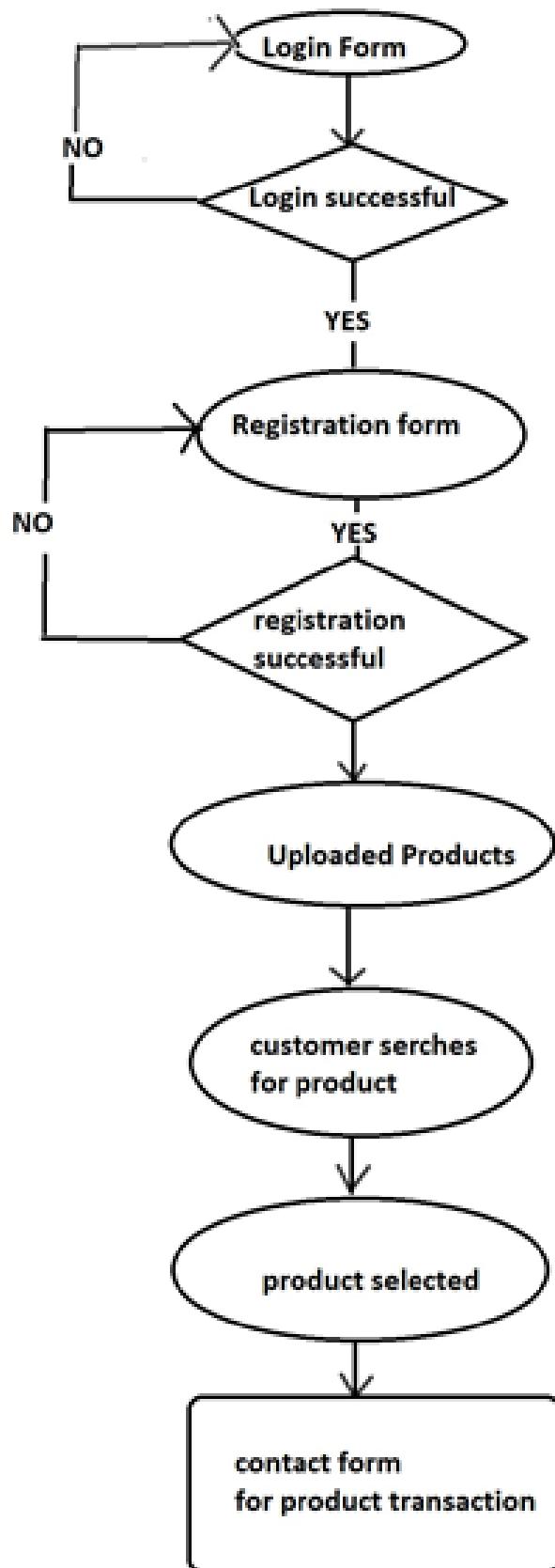


Figure 4.1 System Architecture

#### 4.2 Data Flow diagram

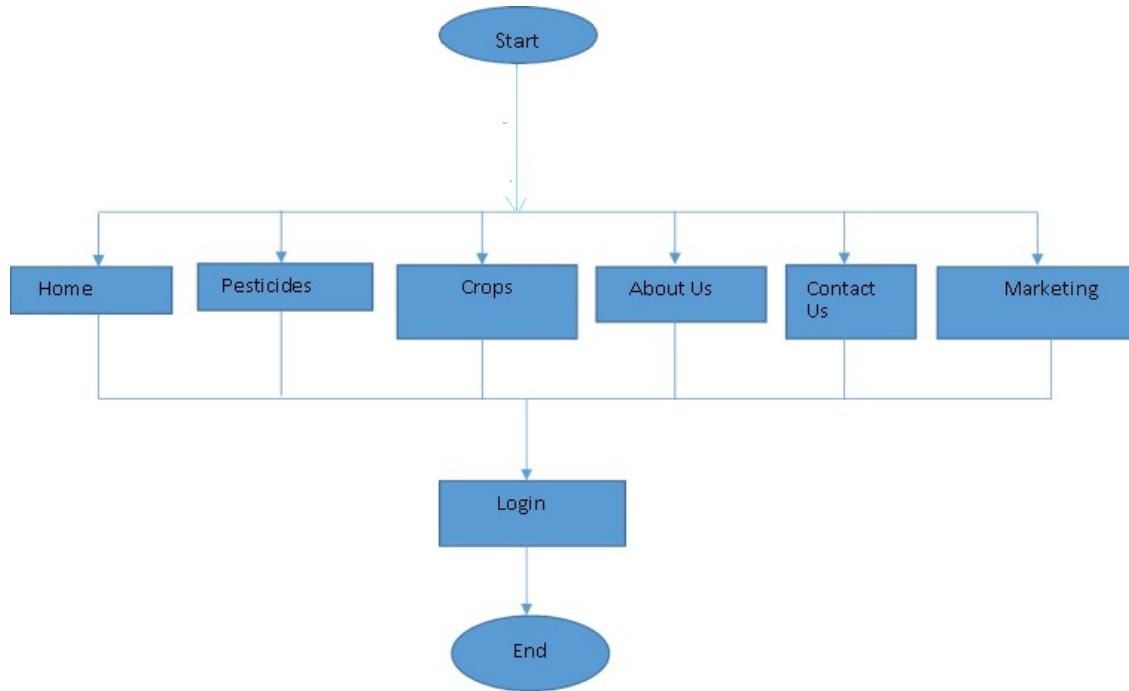
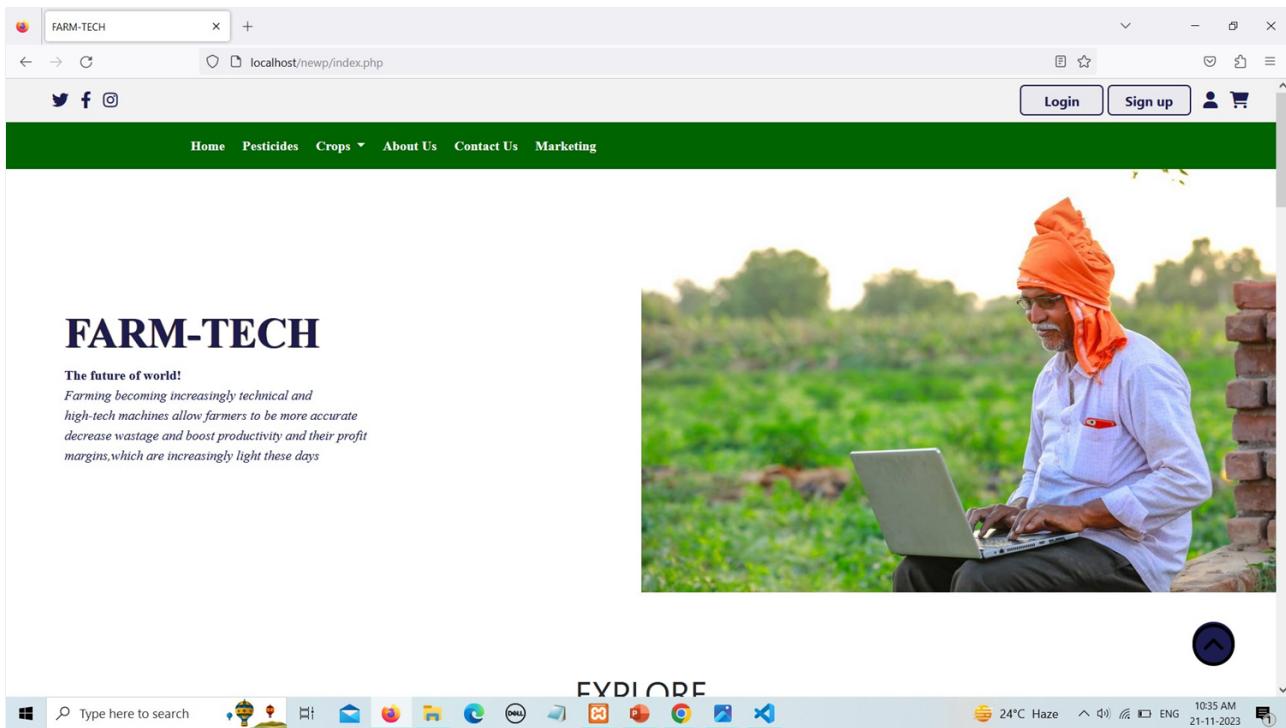
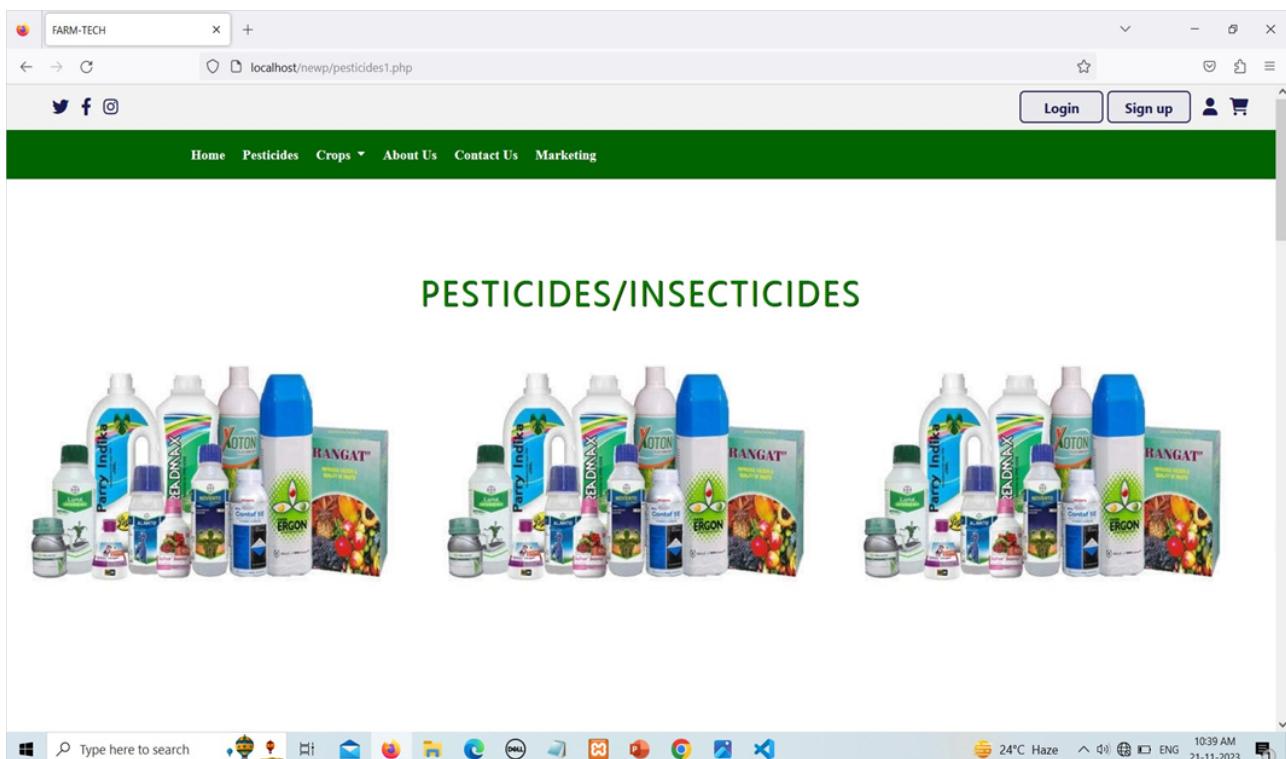


Figure 4.2 Data Flow Diagram

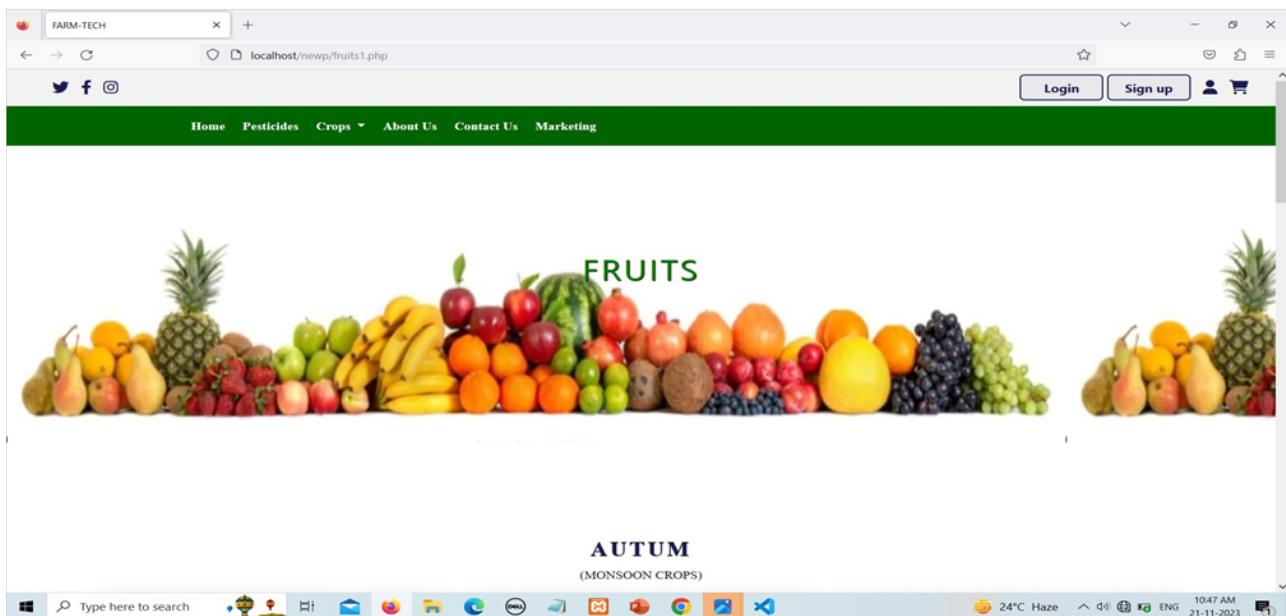
## 5 User Interface



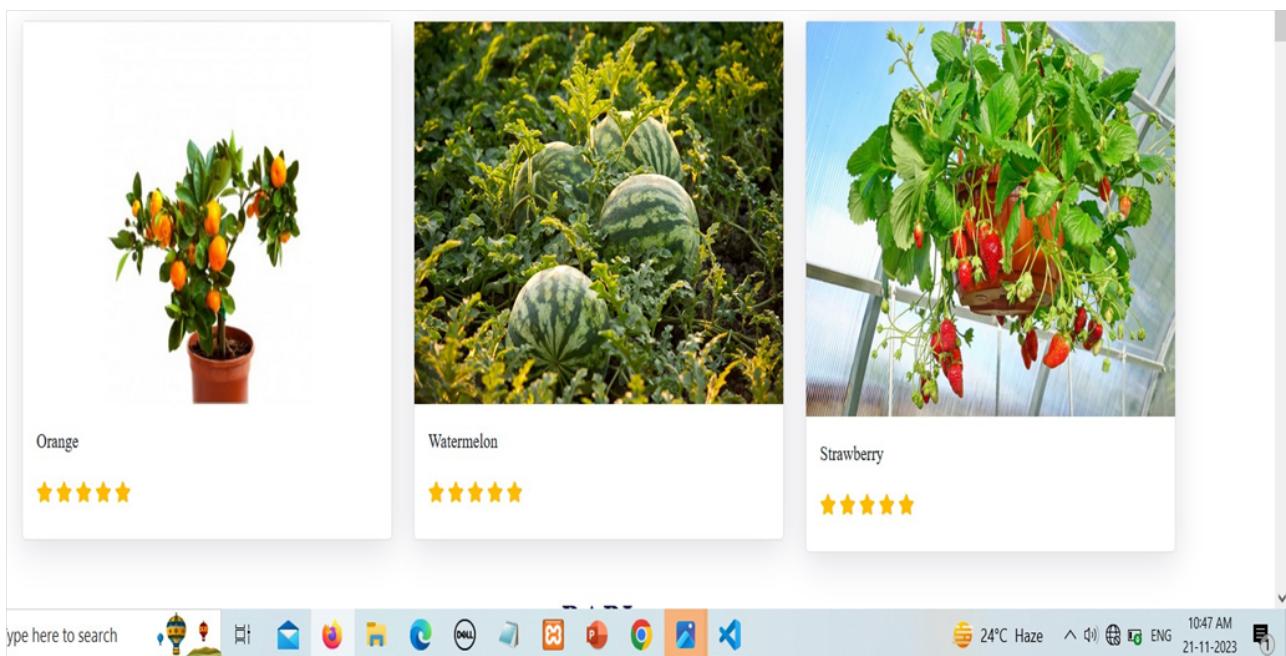
Screenshot 5.1 Homepage



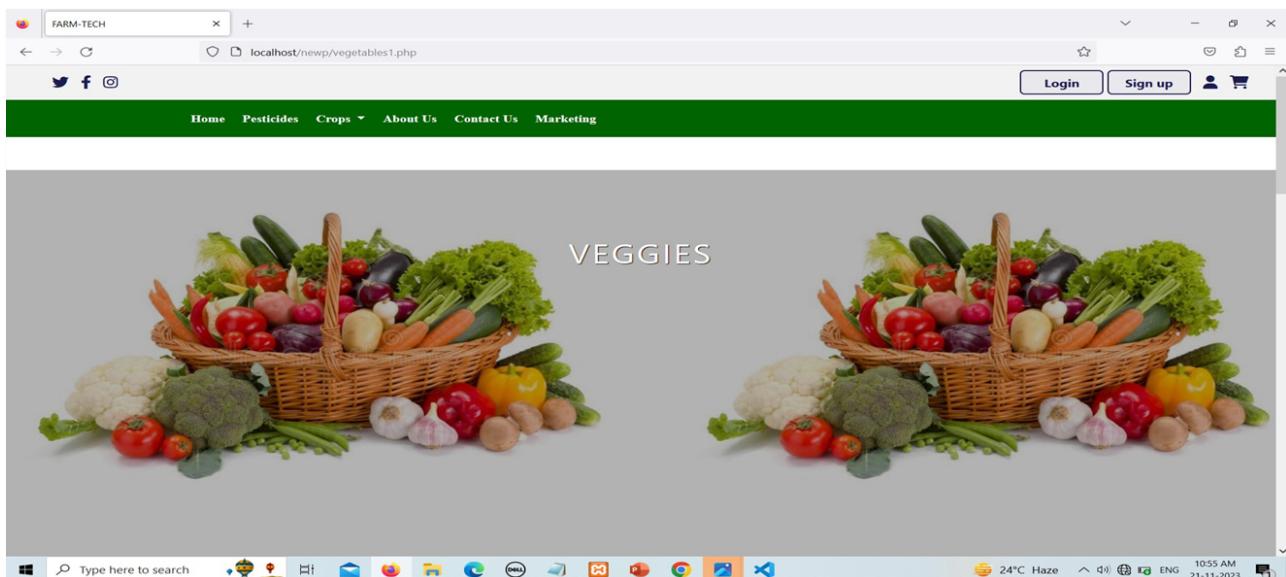
Screenshot 5.2 Pesticides



Screenshot 5.3 Fruits



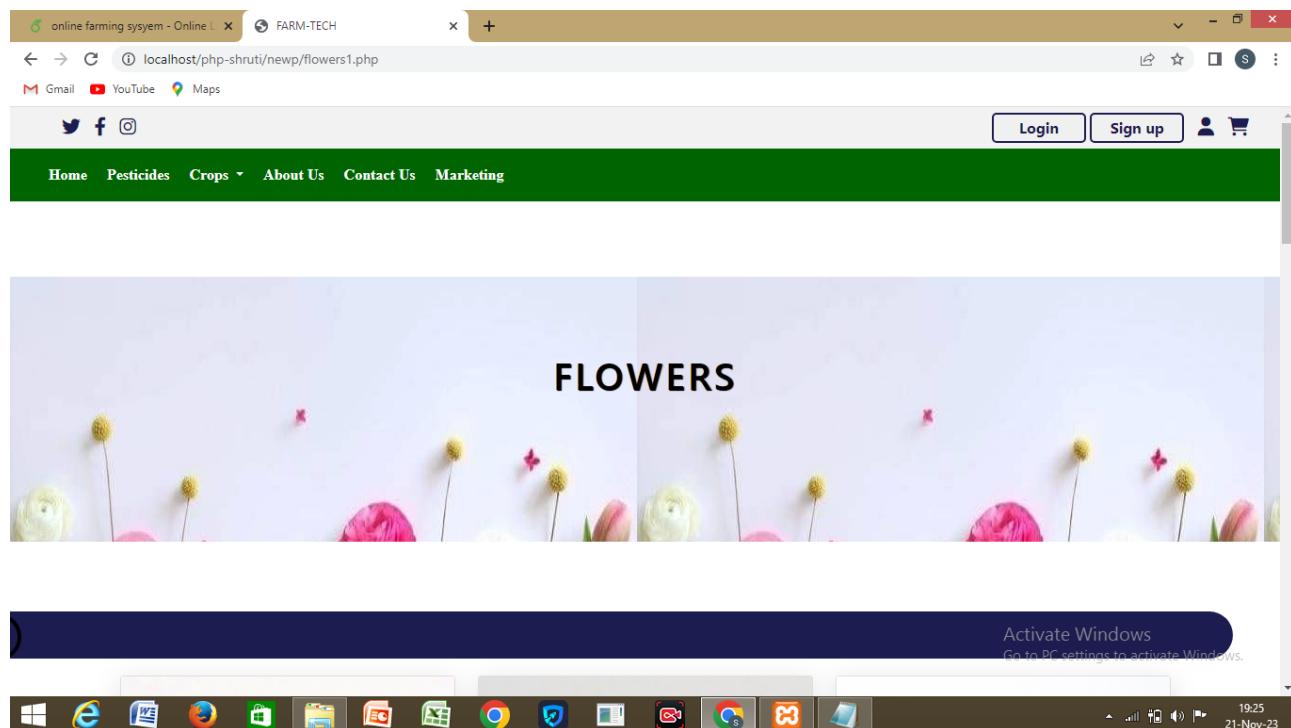
Screenshot 5.4 Autumn



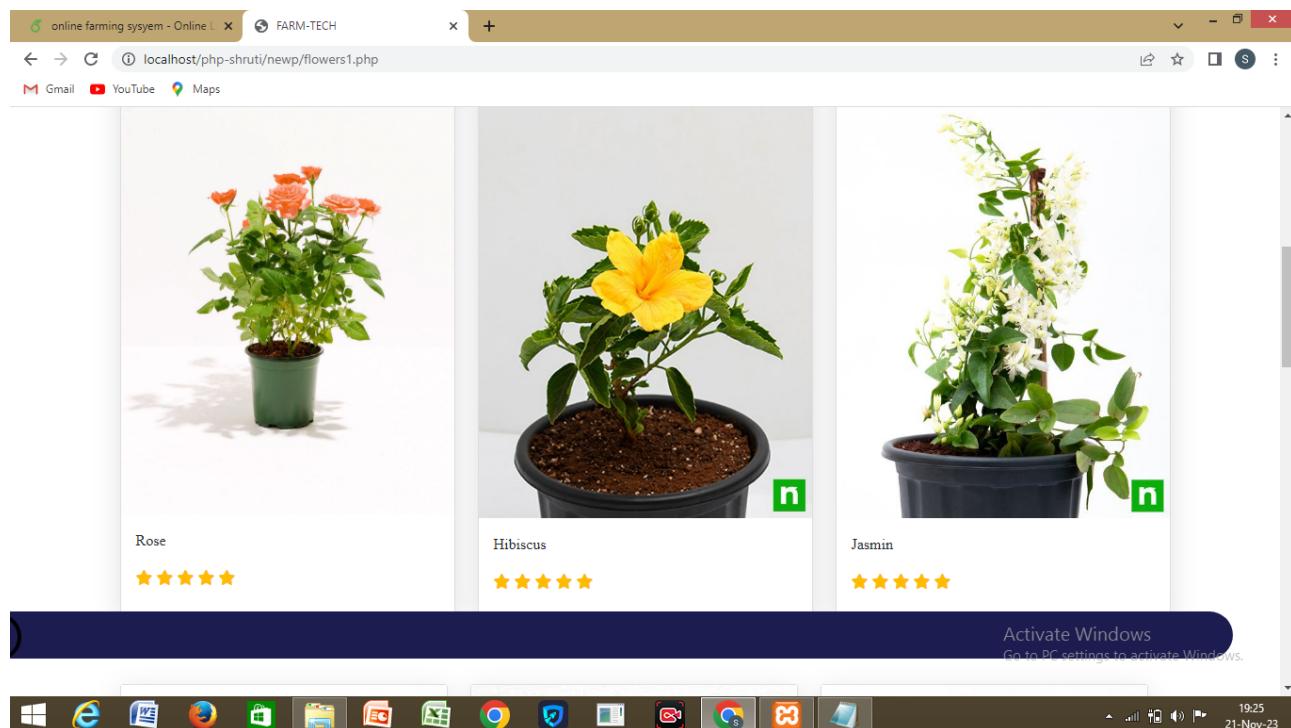
Screenshot 5.5 Veggies

A screenshot of a web page titled "FRUITY VEGETABLES". It features three product cards: 1) "Potato" showing several potatoes in the soil with their green plants above ground, accompanied by a 5-star rating icon. 2) "Tomato" showing two small potted tomato plants with a few red tomatoes in front, also with a 5-star rating icon. 3) "Chilli" showing a close-up of a chili plant with many green chili peppers hanging from it, with a 5-star rating icon below. The background is white and the overall layout is clean and organized.

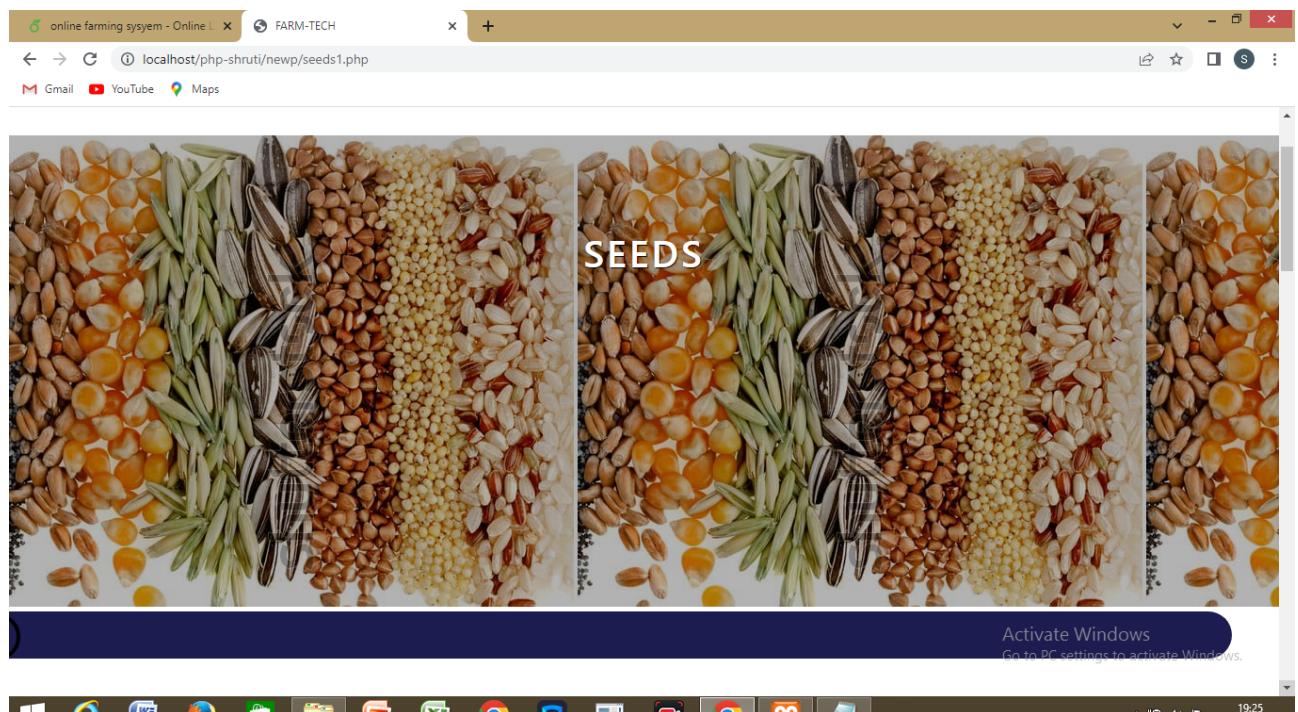
Screenshot 5.6 Fruity Vegetables



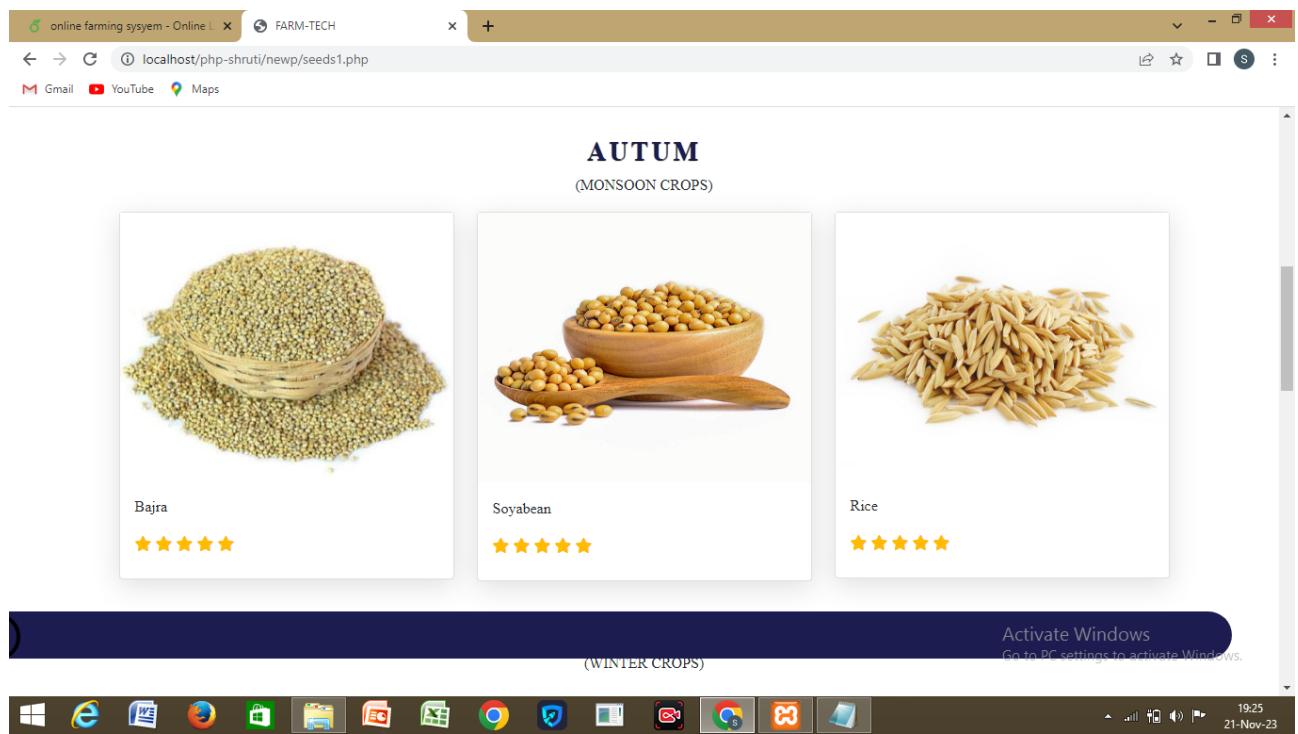
Screenshot 5.7 Flower



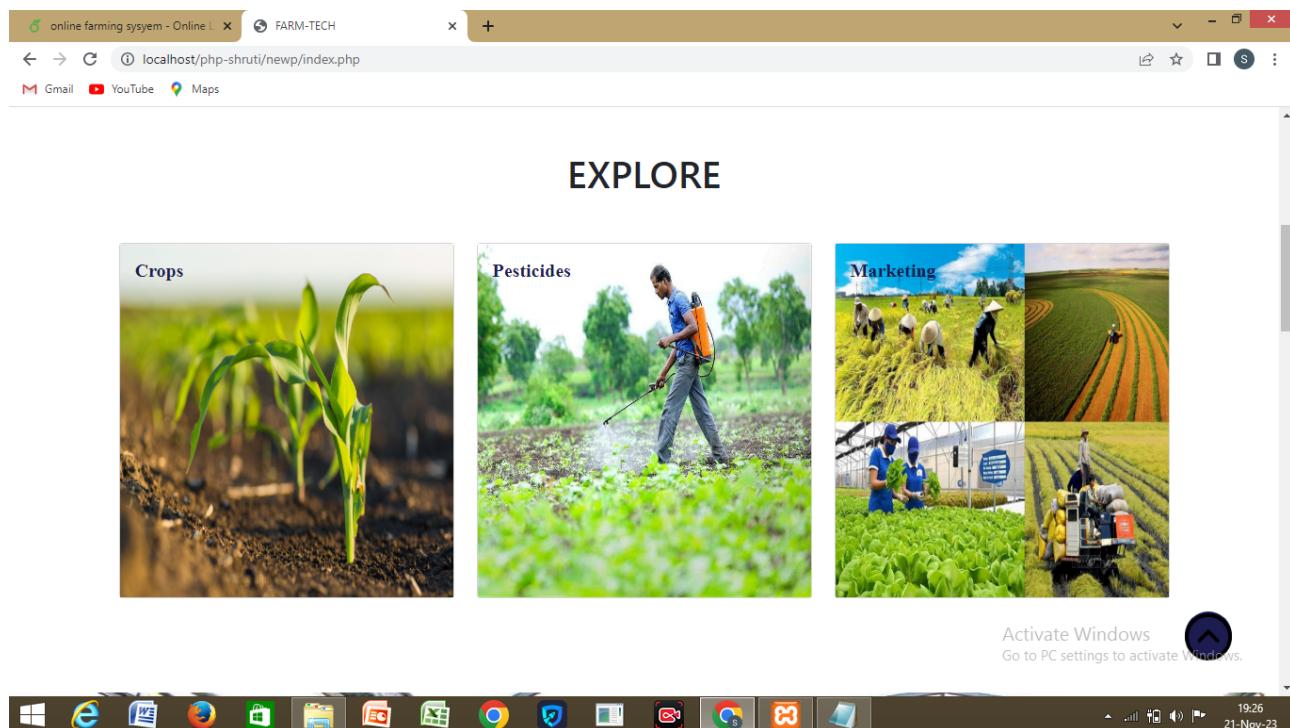
Screenshot 5.8 Flower Types



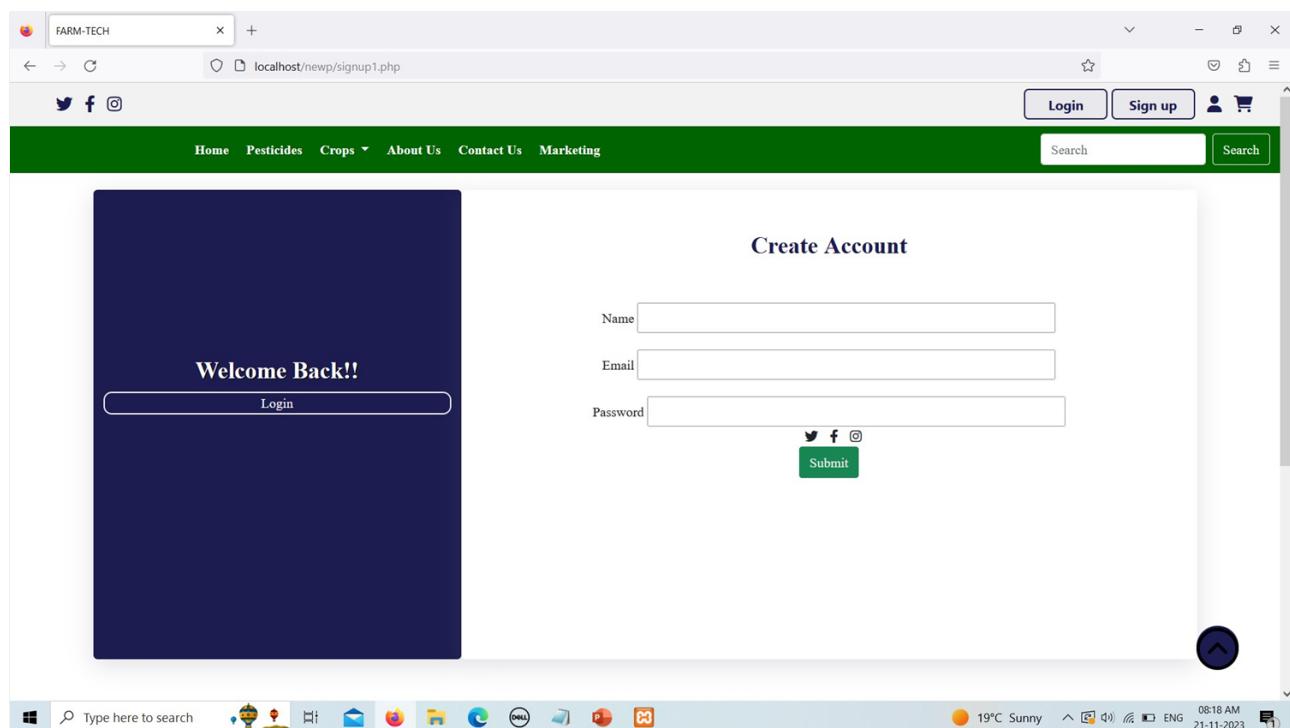
Screenshot 5.9 Seeds



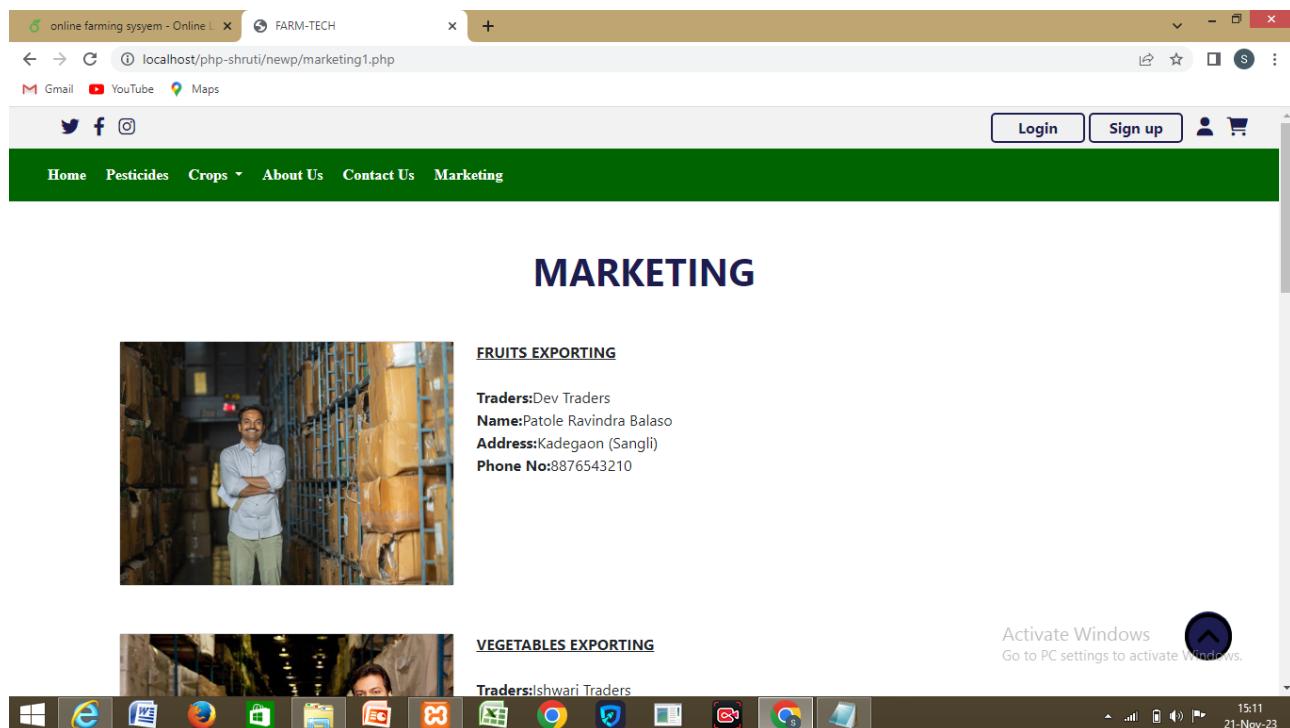
Screenshot 5.10 Seeds Types



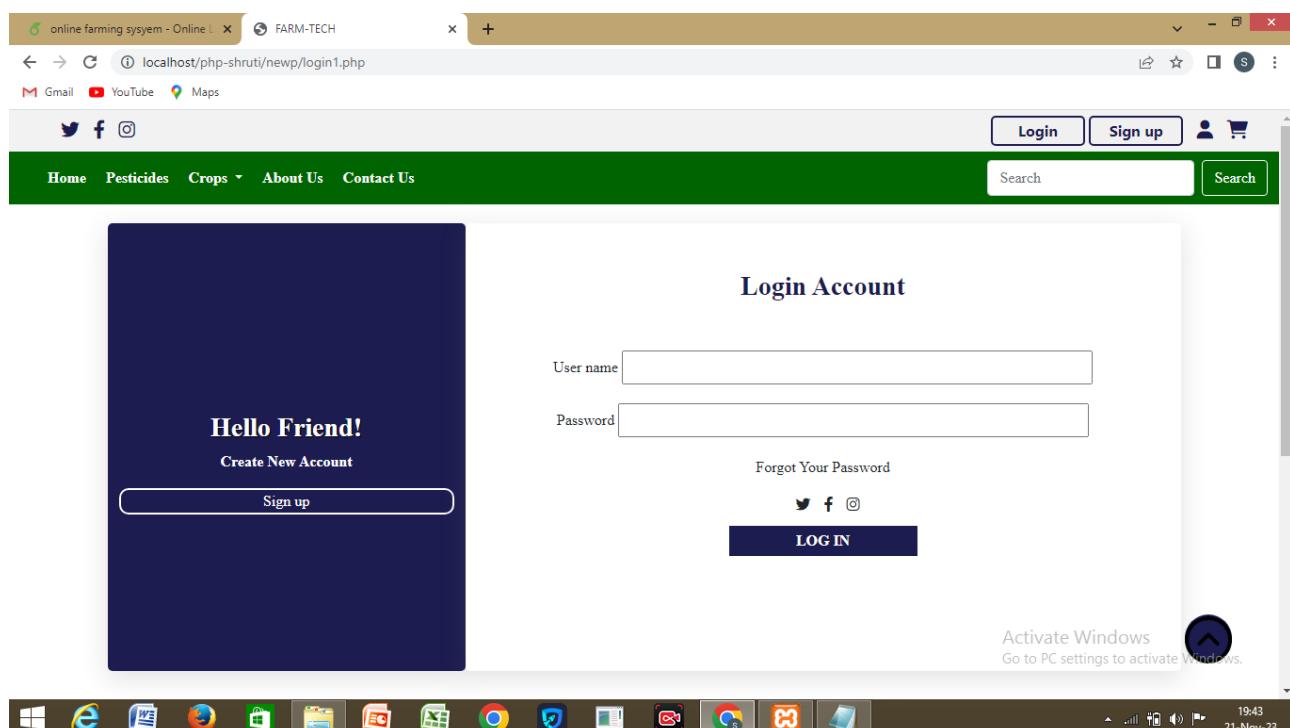
Screenshot 5.11 Explore



Screenshot 5.12 Sign UP



Screenshot 5.13 Marketing



Screenshot 5.14 LOGIN

## 6 Future Scope

Farming is complex and involves various costs such as those for labor and land. Farmers use expensive machines and equipment, fertilizers, and pesticides, and ensure proper irrigation . The Agri-food sector is challenged by population growth and climate change, which results in environmental degradation (land, water, and air) in addition to loss of biodiversity and increase in food disease.

- **Mark place and Supply Chain Management:** Online platform connecting farmers to buyers,streamlining the selling process. Efficient supply chain management to reduce wastage and improve delivery times.
- **Financial and Resources Management:** Budgeting and financial management tools tailored for farmers. Online farming from sourcing equipment ,seeds, and other farming essential.
- **Mobile Application for Farmer:** Mobile apps providing real-time weather updates,market prices, and advisory services. Apps for monitoring livestock health and performance.
- **Environmental Monitoring:** Using sensors and satellite imagery to monitor the environmental impact of farming practices and promotes sustainable farming.
- **Global Collaboration:** Online Platforms can facilitate collaboration and knowledge sharing among farmers globally. This can lead to the exchange of best practices ,innovative solutions, and technologies tailored to specific region.

## 7 Conclusion

Farming has a very high potential to exploit Multi functional activities and provide multiple outputs. In particular between farming and rural landscapes a strong joint relation can be found. Any type of farming inevitably has an impact on the landscape. In the past, the skewed remuneration systems in markets made modern farming practices put less emphasis on non-marketable outputs, which were before produced for free ( weak disposability ). However, because of growing importance of rural areas as consumptive areas, farming should again emphasize this role.

## 8 References

1. Ningning Ge, Hui Li, Lingwang Gao , (2010) “Online Farming Management”, IP Mist Lab, College of Agriculture and Biotechnology Vol. 4, No. 2.
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3. Abhishek A.G .(2016) “Creating Agriculture marketing using Web and Mobile Based Technologies Web Pages, 1st Edition.
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7. <https://agricrop.gov.in>