

DESIGNING A WEBSITE FOR ONLINE NURSERY

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ABSTRACT

We found the information from various resources like internet, browser, chatgpt etc that people are getting tired of buying plants from regular nurseries. Why? Because sometimes sellers don't know much about the plants they're selling, and customers struggle to find specific information. Plus, comparing prices between different nurseries is a hassle, and many places only accept cash. So, the solution? An online nursery where you can easily compare plant prices and make payments online. The key is to focus on excellent customer service to keep people coming back and spreading the word. The goal is not just to sell plants but to create a positive shopping experience, encourage repeat purchases, and expand the business by offering a variety of plants and using creative advertising to connect with customers. This project is about building an online nursery website using PHP, HTML, CSS, Bootstrap, JavaScript, and MySQL. The main aim of this project is to make it easy for people to buy various plants related products from their homes. The website offers a wide range of items, including plants, seeds, ornamental flowers and more. It is a user-friendly platform and combination of both seller and buyer in which seller can upload the products, decide price for profits and buyer can able to buy the products which is placed by seller.

1. INTRODUCTION

A nursery, in the context of plants and gardening, is a facility or area where plants are grown, nurtured, and often sold for transplantation or landscaping purposes. It serves as a place for the cultivation of various plants, including flowers, shrubs, trees, and sometimes vegetables, during their early stages of growth. Nurseries play a crucial role in the horticultural industry, providing source for individuals, landscapers, and businesses to acquire healthy and well-cultivated plants



Figure 1: Nursery

1.1 Types of Nurseries According to the Type of Sale:

1. Retail Nurseries:

Retail nurseries raise plants for sale to the general public. These places are small, locally owned nurseries that sell seasonal, annuals, ornamental trees, other landscaping plants and garden decoration to the general public or companies that specialize in a

particular type of plant, such as tropical plants, citrus trees, bulbs or roses. 2. Wholesale Nurseries: Wholesale nurseries usually grow plants in bulk for the purpose of selling to large clients. These clients may include florists, garden centers or departmental stores. A wholesale nursery may fill a niche for particular types of plants, such as vegetables or houseplants, or they may grow a general selection of plants to sell such as fruits, vegetables and landscaping plants. 3. Private Nurseries: A private nursery grows plants exclusively for a single client. The private nursery may be owned by the client or it may be under contract for use by the client. Clients for private nurseries include large estates, corporations and institution.

1.2 WHAT IS AN ONLINE NURSERY?

An online nursery is a digital platform or website that facilitates the buying and selling of plants and related products over the internet. It extends the concept of traditional nurseries into the online realm, offering customers the convenience of browsing, selecting, and purchasing a variety of plants from the comfort of their homes. By leveraging technology and the internet, online nurseries provide a modern and accessible way for individuals to engage in gardening, landscaping, or simply adding greenery to their living spaces.

1.3 EXISTING SYSTEM: We can buy plants near nurseries at our surroundings but sometimes they may not be available near us or the required product may not be available at that time. Plant seller need to travel, different streets of different areas for sell plants to the people who need in the streets.

Sometimes the customers may not be at that time.



Figure 2: Nurseryman selling Plants in Streets

This website has been developed the online nursery. Now a days, demand for nurseries in all type's plants purposed is increased in both urban rural areas in India heavy demand for ornamental and flower plants is observed during festivals and general purpose also and seasons of fairs and nursery business. Therefore, come up in a large scale in online website there is an urgent need to get the nursery industry developed in the country. Here the website has been developed to override the problem of the selling nursery products. The buyer can buy the products which are placed by seller directly into the website. The seller can access the website any time and upload the necessary products easily, he can also get the details of orders from the website.

Year	Number of People Buying Plants in Traditional Nursery	Number of People Buying Plants in Online Nursery
2018	80000	20000
2019	90000	60000
2020	100000	100000
2021	110000	140000
2022	120000	180000
2023 (Estimated)	130000	220000
2024 (Estimated)	140000	260000

Figure 3: Table Data from 2018-2024

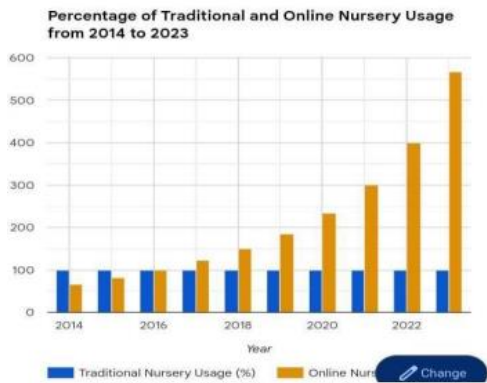


Figure 4: Analytics from 2014-2024 As you can see,

the number of people buying plants from both traditional and online nurseries has been increasing steadily over the past few years. This is likely due to a number of factors, including the convenience of online shopping, the wider selection of plants available online, and the increasing popularity of gardening. It is interesting to note that the number of people buying plants online has been growing at a faster rate than the number of people buying plants from traditional nurseries. This suggests that online nurseries are becoming increasingly popular, and that they may eventually overtake traditional nurseries in terms of market share. Overall, the data suggests that the future of the plant nursery industry is bright. Both traditional and online nurseries are likely to continue to grow in popularity in the years to come.

Benefit of ordering plants online:

- Doorstep Delivery.
- Less Expensive.
- Short time to order.
- Simple payment method (online payment).
- Ordering the multiple products at a time.
- Buyer can get the details of the nursery.

- Seller can easy upload the products in our website.

- Seller can get the ordered list of products.
- Seller can contact the call centre and even upload the product using SMS.

2. LITERATURE SURVEY

The literature survey found that the following factors are important for the design of an online nursery website:

- Usability: The website should be easy to use and navigate.
- Product information: The website should provide detailed product information, including photos, descriptions, and care instructions.
- Shopping cart: The website should have a secure shopping cart that allows customers to easily add and remove items from their order.
- Payment processing: The website should have a secure payment processing.
- Customer support: The website should provide customer support.

PAPER: Small Scale Private Plant Nursery Enterprise (1.Larine, S.L, 2.Ruth Santos)

ANALYSIS: Small-scale enterprises certainly play an important role in the production of goods and services and in the generation of substantial employment and income in almost all countries, both developing and Income generated in small-scale enterprises would depend largely on the nature of local demand and the overall state of the local economy. **PAPER:** Plant Nursery Management (1.P.Ratha Krishnan, 2. Raj K. Kalia ,3.J.C.Tewari ,

4.M.M.Roy) ANALYSIS: It provides employment opportunities for technical, skilled, semi-skilled, unskilled labor. They are an important source supplying the

seedlings for meeting the fruit, pulp and paper, fuel wood, timber and other demands of the industries.

PAPER: High Tech Nursery Management in Horticultural Crops (1.A way for Enhancing Incomer. Singh, L.K.Meena2* and Parameter Singh) In this paper authors describe the high tech nursery management system in horticultural crops. The aim of good nursery management is to make available planting material of the highest possible quality for new development areas and replanting.

3. SYSTEM DESIGN

An online nursery website is a crucial tool for businesses in the horticulture industry to expand their reach, enhance customer experience, and boost sales.

3.1 PROPOSED SYSTEM ARCHITECTURE:

Our main aim is to digitalize products in nurseries and safe doorstep delivery. This project is to create a website that helps both buyer and seller to connect directly and sell or buy the nursery products within a short time. The application is flexible and can easily access by the customers and seller can decide the price of each product.

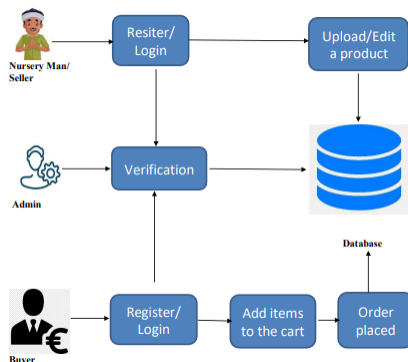


Figure 5: Proposed System Architecture

Activity Diagram: Activity diagram is another important diagram in UML which describes the dynamic aspect of the proposed system. It is basically a flow chart to represent the flow from one activity to another activity. The activities can be described as an operation of the proposed system. Activity diagram gives a high level understanding of the systems functionalities. Before drawing the activity diagram, we must have a clear understanding about the elements to use. In the proposed system, the main elements of an activity are the activity itself. An activity is a function performed by the proposed system. After identifying the activities, we need to understand how they are associated with constrains and conditions

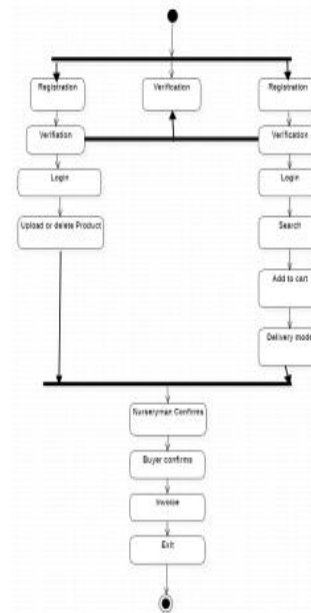


Figure 6: Activity Diagram

4. OUTPUT SCREENS

Interface for Seller/Buyer: This interface which has Buyer/Seller will take you to their login pages respectively. Interface option1 connects you to the Seller’s login page, while option 2 links to the Buyer’s login page.



Figure 7: Interface for Seller/Buyer
Seller's Login Page: Sellers can register/login into the website to manage products and they have the ability to add or delete products based on their correct logins.

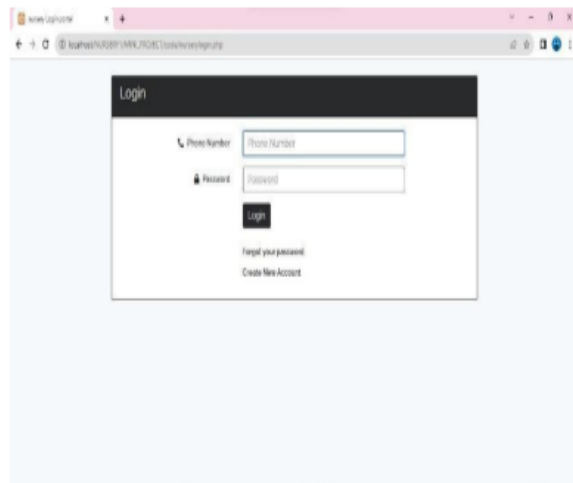


Figure 8: Seller's Login Page
Seller's Registration Page: A Seller registers when he wants to create an account.

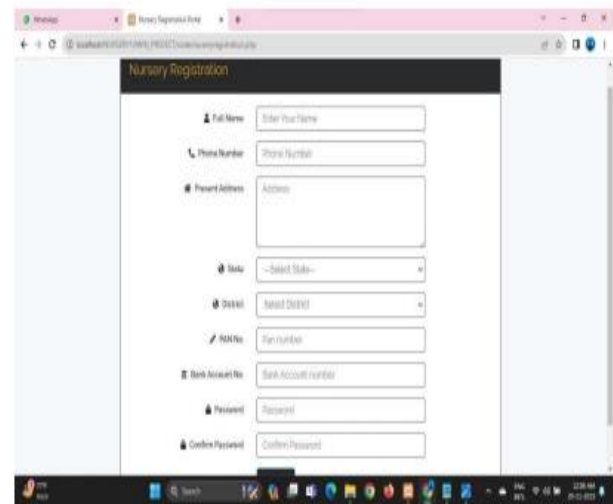


Figure 9: Seller's Registration Page
Seller's Home Page: Interface of seller's Home Page.

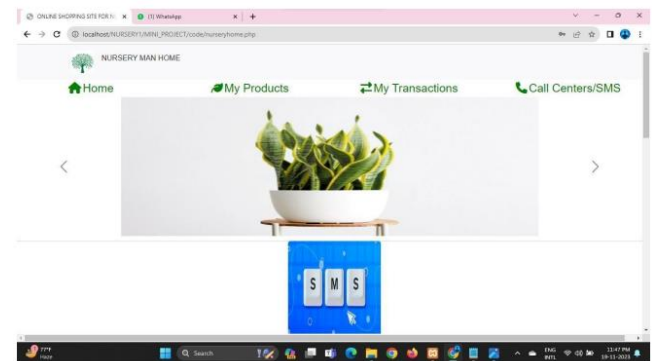


Figure 10: Seller's Home Page
Seller's Functionality: Seller can Upload/Edit/Delete a product when needed.

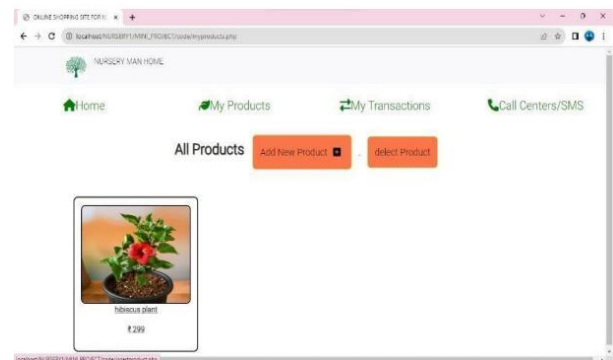


Figure 11: Seller's Functionality
Buyer's Login Page: Interface of Buyer's Home Page.

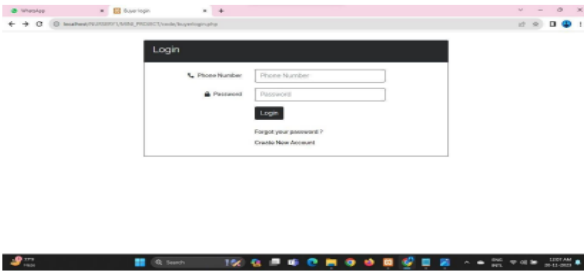


Figure 12: Buyer's Login Page

Buyer's Registration Page: A Buyer registers when he wants to create an account

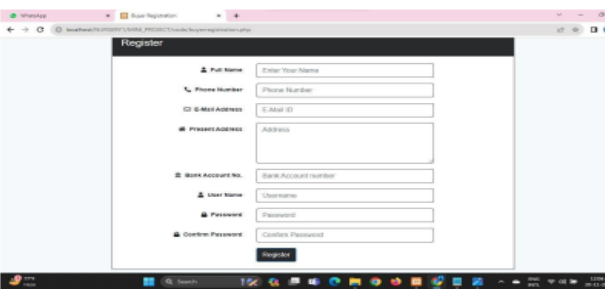


Figure 13: Buyer's Registration Page

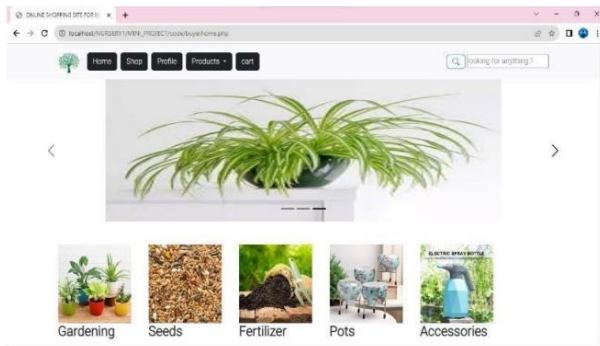


Figure 14: Buyer's Home Page

Searching a product: Here the buyer searches for the product of his/her wish.

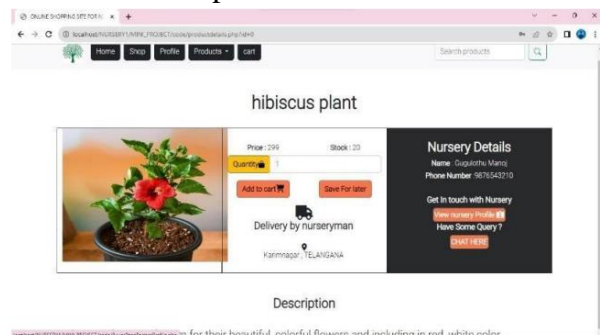


Figure 15: Searching a product

Add Items to Cart: Buyer add items to their cart and then go to checkout.

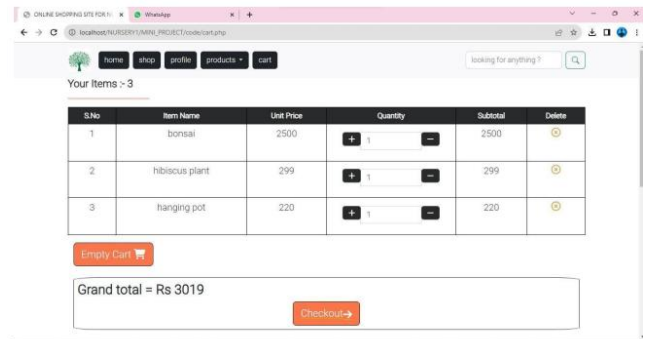


Figure 16: Buyer's Cart

Payment Option's: Buyer select delivery address, delivery options and mode of payment.

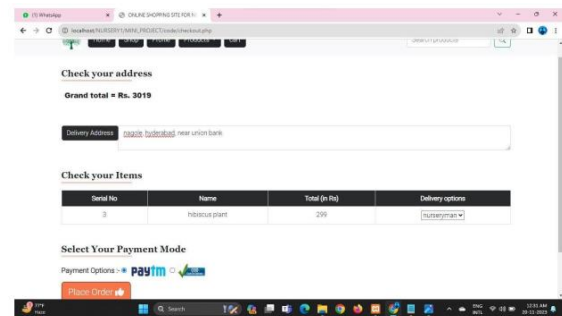


Figure 17: Payment Option's

Transaction history: The transactions that are done will be saved here.

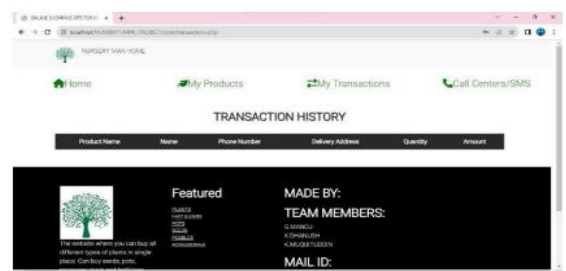


Figure 18: Buyer's Transaction history

5. CONCLUSION

Designing a website for online nursery is useful to solve the buying plants generally it will available in offline mode but our main intention is to made it online. This platform is very useful to the buyer and seller to buy



or sell the products within the short period of time, seller can upload the products and decide the price to. This website built with PHP, MySQL, HTML and CSS it was hosted locally using XAMPP. The objectives like creation of database adding the data to database (MySQL) and running the website on XAMPP are achieved successfully.

6. FUTURE ENHANCEMENT

The future work is as follows: -

1. In near future, the system interface could be improved with more attractive,
2. interactive and, meaning images.
3. We evolve the system by developing sever versions through user feedback.
4. In future we to add new features to project like issuing of any products or any
5. material related plants and provide the performance of the products.
6. When the new products are arrived then it notified, to the customers through SMS.
7. Improve the security of the website.
8. Number of shopkeeper's can register to the web portal for increase their sale.
9. This application can be used by any user to purchase the online plants and get appropriate information by viewing short summery about the plants items through videos.
10. If any changes to make customer can purchase the plants through different payment schemes like debit card, credit card, pat, phonepe, cash on delivery etc.
11. Implementing robust encryption and secure gateways for seamless online payment transactions.
12. Utilize machine learning algorithms to analyze user preferences and environmental factorsto suggest suitable plants.

13. Incorporate climate data to suggest plants that are well-suited to the user's local climate, minimizing environmental impact.

14. Integrate advanced e-commerce features, such as secure payment gateways, multiple shipping options, and order tracking systems.

7. REFERENCES

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