

Crop- Online Plant Nursery

Team-Ushaswini Gorigay[N2], Varshini Argula[N9]

Abstract

The introduction of online plant nurseries has revolutionized the gardening sector by providing people with a practical and accessible means of buying plants and related goods. This study intends to present a thorough analysis of the development, advantages, drawbacks, and effects of online plant nurseries on the gardening community and the larger ecology. Online nurseries provide customers with simple access to a wide variety of options that might not be readily available in nearby nurseries offering a large selection of plant species. Customers can explore and search for specific plants with ease, get comprehensive information about how to care for them, and make purchases with just a few clicks online. The chance to interact with a larger group of plant lovers is one of the main benefits of online nurseries. Users can seek guidance, share experiences, and create a feeling of community within the gardening community through online forums, social media groups, and interactive platforms. This online networking promotes a culture of ongoing learning and development and advances the advancement of knowledge. Online nurseries are also quite important in developing sustainable practices. Many platforms put an emphasis on eco-friendly packaging materials, ethical cultivation practices, and responsible sourcing, which lessens the environmental impact of conventional nurseries. Online nurseries

support the global movement for conservation and responsible consumerism by placing a high priority on sustainability. In conclusion, internet nurseries provide plant lovers a practical and sustainable alternative by giving a wide selection of plants, instructional materials, and a lively community. This summary highlights the important benefits of online nurseries, allowing people to enjoy plant parenting while also making a positive impact on a greener, more connected world.

Keywords:

Virtual plant shopping, online plant sales, plant delivery services, web-based gardening, online plant selection, html, CSS.

Introduction:

People in the modern world are more attentive to their devices while working than to their surroundings. People that are extremely busy with their schedules have little to no time to buy plants and decorate their houses, places of employment, studios, or gardens. Having a space full of plants offers a person all the cheerful energy they need to work or rest. Plants also help people live calm, stress-free lives and purify the air we breathe. Plants can be used as decoration to brighten the workspace and inspire people to work more stress-free.

Our customers are the one who loves their place to be filled with positive vibes especially with plants and who wants to enlighten their garden. So, our website helps them in solving their problem by shopping plants online. To decorate their work space, home, studios, gardens, etc. with decorative plants to feel calm and soothing which helps them work or live stress free. Plants tend to brighten and liven up the room so people who aspire to have such cozy environment but have no time because of their busy schedules can use this website and can get their desired plants home delivered. This website is an online nursery that allows you to shop for plants from the comfort and convenience of your homes. Using this website customers can view all the available plants with details such as the plant's cost, level of maintenance required, watering schedules, and type of soil required and area in which it has to be stored, etc. Customers can view the plants and their details and add it to their cart or keep it in their wish-list. Customers can view their cart and make payments and get them delivered at their doorstep. To develop or to bring our website into the market for customers, the main technologies required are HTML, CSS and React JS. There are many other existing solutions in the market like Urban Stems, the Sill, Shopify, Magento, Presta shop. But our website is unique in its way because of its features any other existing apps or websites does not possess. We have our delivery partners with good amount of knowledge about the plants so they can help the customer know more about the plant and the area suitable for their growth and much more plant related.

Existing system:

There are several existing solutions for the online nurseries. Here are few options:

Shopify:

A reliable and simple to use solution for creating and running online nurseries is offered by Shopify, a well-known e-commerce platform. It provides editable website themes, safe payment processing, inventory control, order tracking, and interfaces with different shipping companies. Additionally, Shopify offers a large selection of plugins and apps made especially for selling plants and gardening supplies.

Magento:

Online nurseries can benefit from the scalability and flexibility of the open-source e-commerce platform Magento. It offers a number of services, including secure payment gateways, order processing, inventory management, and product catalogue management. Magento is appropriate for nurseries with complicated product lines since it offers a wide range of customization and integration options.

PrestaShop:

An adaptable solution for online nurseries is offered by PrestaShop, a free and open-source e-commerce platform. It has features like order processing, inventory management, safe payment methods, and product management. Additionally, PrestaShop provides a huge selection of modules and extensions to improve the functioning of the online nursery.

WooCommerce:

A flexible and adaptable solution for online nurseries, WooCommerce is a WordPress plugin that turns your WordPress website into a fully functional online store. It offers

features like product listing, shopping cart functionality, secure payment gateways, inventory management, and order management.

Literature survey:

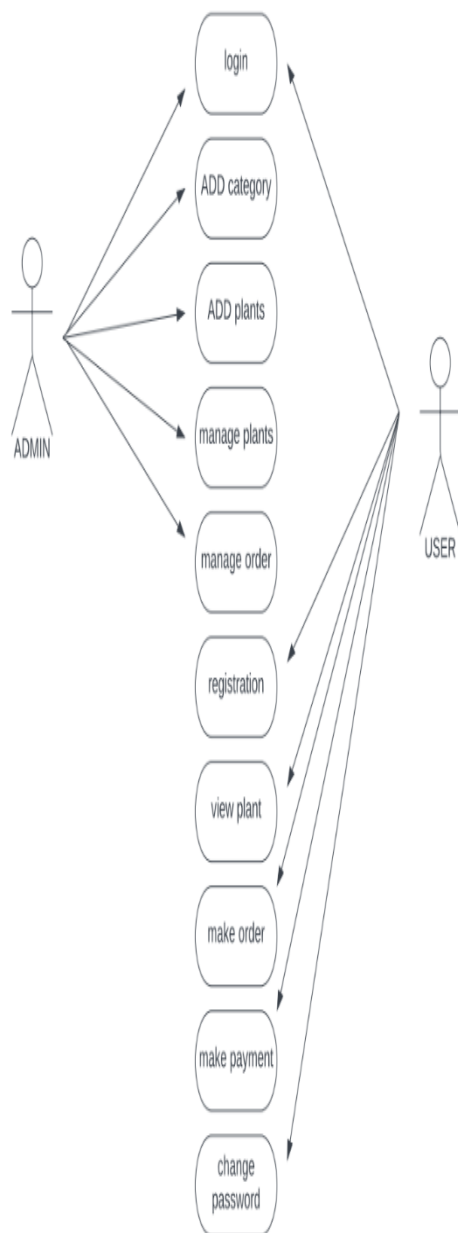
S.no.	Title	Author	Key findings
1.	E-commerce and Online Plant Sales: Opportunities and Challenges.	Subhajit Sengupta and Shampa Sen.	The advantages and potential of selling plants online are covered, including their wider appeal, customer convenience, and market accessibility. The study also discusses issues like consumer trust, logistics for delivery, and plant quality assurance.
2.	Consumer behaviour in online plant purchases.	Julia Kröner, Martina Ziefle, and Rüdiger Zarnekow.	It looks at the elements affecting customer confidence, risk perception, and pleasure while purchasing plants online. The study uncovers important influences on consumer attitudes and intentions towards online plant nurseries, including the calibre of the product information provided, the visual presentation, and online reviews.

3.	E-commerce Strategies for Online Plant Sales: Insights from Dutch and German Plant Retailers.	Koen J. van Veenendaal, Richard M.W. Visser, and Aad van Tilburg.	It examines issues such product selection, website layout, user engagement, and logistical difficulties encountered by online nurseries. The study emphasises the significance of an intuitive user interface, precise plant data, and effective order fulfilment procedures for profitable online plant sales.
4.	Online Plant Sales: A Growing Market with Opportunities for Green Industry Businesses.	Bridget K. Behe, Patricia Huddleston, and Patricia Thomas.	It talks about convenience, product variety, and client demographics as factors influencing the rise in popularity of online plant nurseries. Insights on consumer preferences, marketing tactics, and difficulties experienced by companies trying to break into the online plant sales sector are also provided by the research.
5.	Exploring Factors Affecting Consumer Adoption of Online Plant Purchases.	Daiane Scaraboto and Jeffrey Inman.	It examines topics like perceived product quality, trust in internet retailers, and how social and environmental concerns affect purchasing decisions. The study emphasises the value of establishing credibility and trust in online plant nurseries through open

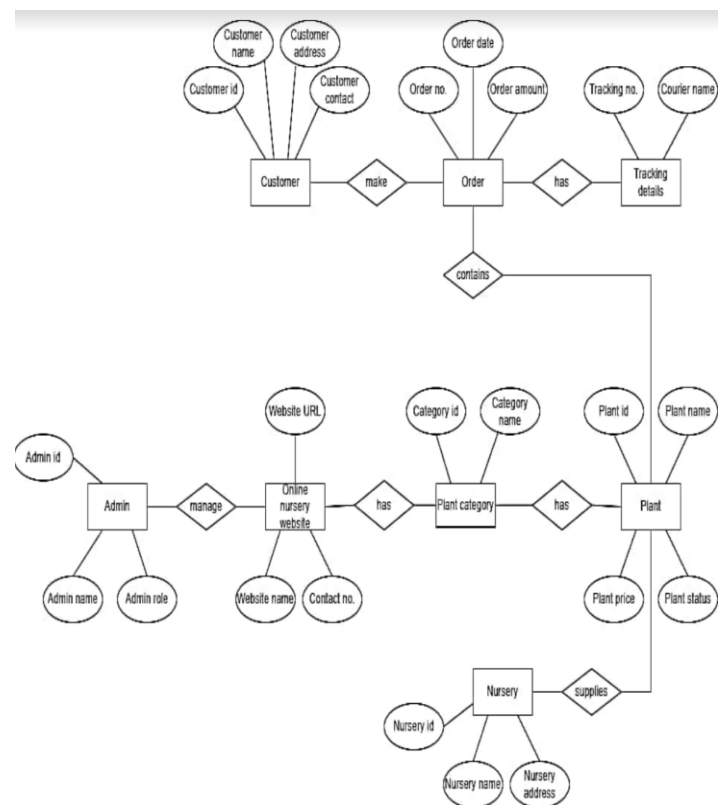
			communication, positive customer feedback, and quick response times.
--	--	--	--

Methodology:

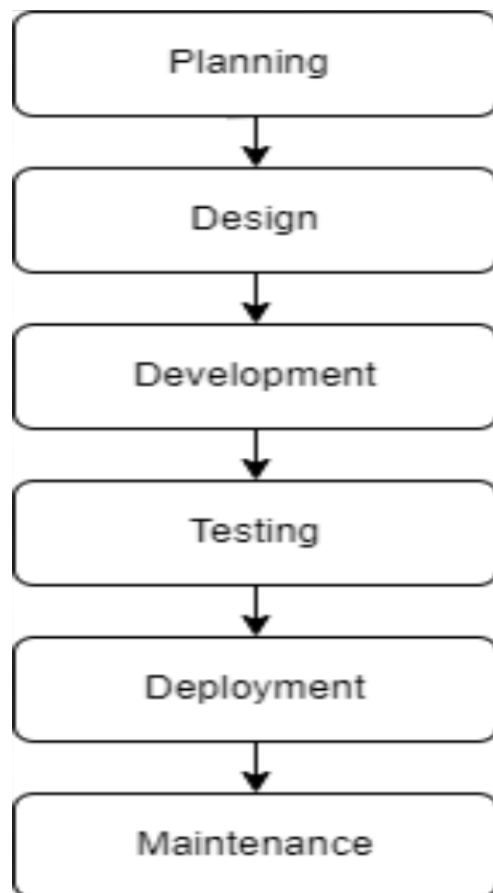
A. Use case diagram:



B. ER-Diagram



C. Phases of Design



Several steps are included in the technique for an online nursery project. An overview of the main steps is provided below:

Planning

The first step entails defining the project's goals, pinpointing the target market, and deciding what features and services the online nursery website will need.

Design

The website's layout, color palette, and user interface must all be created as part of the design process. In order to test the design

and make sure it matches the project objectives, this step also entails generating wireframes and prototypes.

Development

In this phase, programming languages like HTML, CSS, and JavaScript are used to create the website. The website must also be integrated with a database that houses data on the plants, seeds, and gardening supplies in this step.

Testing

The website is tested after it is created to make sure it is reliable and user-friendly. This process entails performance, usability, and functionality testing of the website.

Deployment

The website is uploaded to a web server and made accessible to the general public after it has been tested and approved.

Maintenance

To ensure that the website stays current and continues to fulfil the needs of the target audience, it is routinely updated and maintained.

Overall, the technique for an online nursery project entails careful planning, design, development, testing, deployment, and maintenance to build a user-friendly and efficient website for online plant, seed, and gardening supply purchases.

Result:

As we complete writing the code, we need to execute it and it redirects to the web page. As shown in the image below, it displays plants in the home page.



To explore more varieties of plants we need to go to product link and there we get to search for more plants which we can buy according to our wish.



In case of any queries customer can call to the customer care which is provided in the contact's section.

Conclusion:

For enterprises in the plant and gardening industries, an online nursery website can be a useful resource. Online nurseries may reach a wider audience and boost their sales by offering customers a simple and fast option to buy plants, seeds, and gardening equipment. There are a number of options for building an online nursery website, including e-commerce platforms like Shopify and WooCommerce as well as already-established online nurseries like Nature Hills Nursery and Spring Hill Nurseries. Businesses should carefully assess their needs before selecting the platform or solution for their online nursery website and make sure that it will meet all of their expectations. An online nursery website for companies in the plant and gardening industries can be a successful and lucrative operation with careful planning, design, and implementation.

In addition to the advantages already mentioned, an online nursery website can offer users a wealth of knowledge on plants, gardening, and landscaping. Online nurseries may assist clients make educated judgements about their purchases and advance their gardening abilities by offering thorough plant descriptions, care guidelines, and gardening advice. Online nurseries can also include a variety of gardening materials, including articles, videos, and discussion boards, to assist clients in learning more about gardening and establishing connections with like-minded individuals.

Furthermore, businesses can reach customers and broaden their market through an online nursery website at a reasonable price. Online nurseries are able to offer competitive prices and raise their profit margins by doing away with the necessity for a physical storefront and

cutting costs associated with overhead. Online nurseries can also connect with clients in various areas and nations, growing their clientele and boosting their prospective earnings.

In general, a website for an online nursery can be a great resource for companies in the plant and gardening sector. Online nurseries may boost sales, boost customer happiness, and grow their market by giving clients a simple and convenient option to buy plants and gardening materials, as well as a wealth of knowledge and resources.

Society for Horticultural Science, Jan. 2002, pp. 727–31. Crossref, <https://doi.org/10.21273/horttech.12.4.727>.

References:

Song, Yu-jin, et al. “The Current Condition and Improvement Plan of Native Herbaceous Plants in Selling Online.” *Journal of Korea Society for Plants People and Environment*, vol. 18, no. 4, Korean Society for People, Plants, and Environment, Aug. 2015, pp. 289–97. Crossref, <https://doi.org/10.11628/ksppe.2015.18.4.289>.

AKIN, Betül, and Nüket AKANIL BİNGÖL. “Heavy Metal Accumulation in Wetland Plants and Water-Sediment Relationship in Köprüören-Kütahya.” *Journal of Limnology and Freshwater Fisheries Research*, vol. 5, no. 2, *Journal of Limnology and Freshwater Fisheries Research*, Aug. 2019, pp. 76–82. Crossref, <https://doi.org/10.17216/limnofish.416601>.

Garber, M. P., et al. “Survey of Container Nursery Irrigation Practices in Georgia.” *HortTechnology*, vol. 12, no. 4, American

