Plant Palace

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Abstract –

This research investigates the experience of farmers in accessing quality plants from nurs-ery owners under purchase arrangement using an online portal. The main research ques-tion lies in the observation that plant sourcing presently has several weaknesses, for ex-ample there is limited visibility and choice. In order to counter this, a web application was created, affording the nursery owners portfolio services while giving the farmers a conduit through which to efficiently select from.

The new method used included interviews, surveys and prototype testing to help give the impression of both the farmers and the nursery owners. Responses were reviewed to improve on features so that the application serves the users in the best way possible.
Some important findings are shown below: farmers care about a large number of plant choices and specific information about each type; nursery owners value a system that improves exposure and
integrated purchase procedure.

1.INTRODUCTION

The main aim of this study is to design a web application where nursery owners who are seeking to link up with farmers or buyers seeking quality plants may transact efficiently.

The problems highlighted in the study are centered on constraints in obtaining plants for planting crops such as low availability of diverse plant varieties, poor information about plant quality, and poor interaction with the owners of nurseries.Literature review indicates a gap between producers of plants and consumers, this implies that availability of plants in the agriculture value chain requires improvement . Small farmers directly approach local nurseries that have small stocks, providing poor quality planting materials most of the time that results in poor agricultural returns.

In addition, digital platforms have also been found to improve market access and information ex- change , which evidence the need for integrated solution.

Based on this, this study aims at suggesting that a stand-alone web application can act as a link between nursery owners or operators on one hand and practical farmers on the other in choice of plants that will enhance their satisfaction. This is a general approach of viewing user experiences and collecting opinions from both with an aim of designing a working and easily navigable platform.

2.Review of Literature

2.1 Study of Existing System

1. plant E-Commerce platform :

There is no digital platform available for bike and selling of plants between farmer and nursery owner so we are building platform to connect them digitally.

2. Time consuming :

In today's era the framers visit the different nursery for looking the different plant they want. This process is vary time consuming for framers to see and select varieties of plant in many different nursery.

3.Vendor involvement :

In current scenario farmer need to involve with nursery owner physically , for verifying nursery details , location , etc.

4. No features for prize comparison :

If framer buy the plants for higher rate there is no one to inform him for false prizing while buying.

2.2 Findings from Literature Review

By buy understanding and taking overview of above existing trade of plants. for this we provide a digital trading of plants through different interfaces for farmers and vendors by verifying them and help farmers to get the quality plants at their fingertips. Platform helps nursery owner to get more customer and this is a 24/7 digital platform for buying and selling of plants. This digital trading platform provider user friendly alternative for offline plants purchase.

2.3 Problem statement

Farmers have a very small pool of options when it comes to identifying the type of plants they want for their farm. Most of them however do not have an internet platform where they post what they have in their nurseries makes it difficult for farmers to check on what is available. This results into making wrong choices of planting and a lot of times are wasted. They still need a web-based system to link farmers to owners of the nurseries to enable farmers search for plants that may interest them in a convenient way. This solution will go a long way in enhancing the selection process and enhance better agricultural practices.

2.4 Project Scope

Hence the project seeks to build a web application interface for the owners of nurseries and farmers for better plant buying choices. This will include, among others; user registra- tion, an extensive plant database with search and filter functions, and order

functionality. Farmers can post images and comments while nurseries can post offerings and descrip- tions. Target users consist of own Farming individuals and small to medium sized Garden Nurseries. This means that the application will not do deliveries, delivery management issues or actual physical store. The goal is to provide satisfying platform for farmers and nursery owners.

3.Objective of Proposed System

Facilitate Connections: Design a system that enables easy matching of farmers with the owners of the nursery who supply plants.

Enhance User Experience: An easily navigable interface where farmers can go through the various plant options available and sort out based on specific category.

Showcase Nursery Offerings: Create a portfolio section that allows nursery own- ers to showcase information concerning plant varieties, how they should be main- tained and the amount of money that ought to be charged.

Promote Transparency: Allow customers to leave reviews and rating so as to try and build trust between farmers and nursery owners.

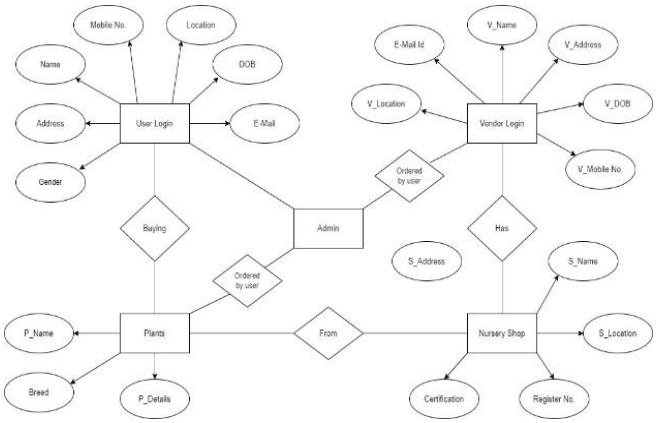
Support Business Growth: Avail professional nursery owners the means to broaden their client base and boost sales due to improved web presence.

Monitor Performance: That is, set up specific KPIs to track the activity and satis- faction of users to boost the quality of the platform constantly.

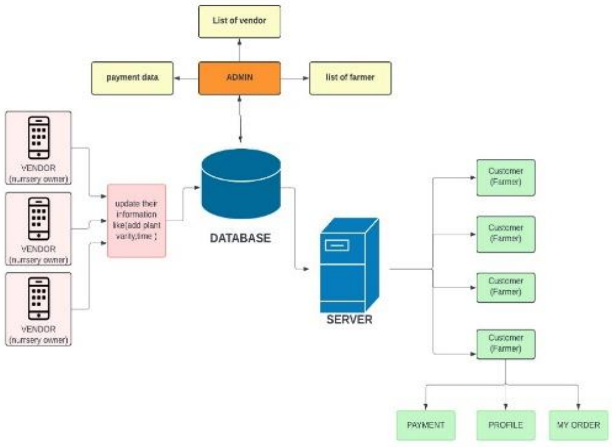
4. Methodology

The designing of a digital plant trade will come through various stages of require- ment analysis based on the specified process. Then from the system design, outlining what architecture and select proper technologies and paying most attention on user inter-face and user experience. While in development, it has to keep in mind the front-end and back-end aspect and needs to seamlessly go along with those existing transit systems and payment gateways. Training and support must be provided to guide the users in using the system, and at the same time, technical support should always be available for resolution.

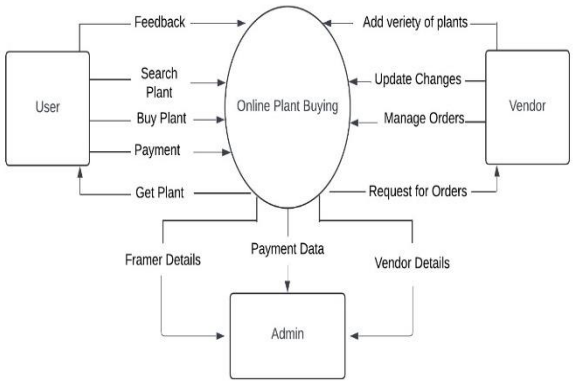
ER Diagram



System Architecture



5.1 Data Flow Diagram



Modules of Software System

Registration Module : In this their are two accounts first is user account in which user have to fill a valid data and second is business account in which vendor have to fill there personal details and business details.

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My Account Module : In this user can see their personal details which he/she fills at time of creating an account.

My order Module : In this user can see the order history, the product which they ordered and they can also track a delivery of product

Vendor Module : In this module vendor fill their product details like product im- age, product specification, top highlight and product price.

5.Requirements

Software Requirements

Frontend

- Html
- CSS
- ReactJS

Backend

- MongoDB
- NodeJS

Hardware Requirements

- Ram: 4 GB
- Processor : intel core i3
- Storage : 256 GB or Above

6. Application of proposed System

User Management: Registration and Profiles: Users can create accounts to manage their Profile, track usage, and update personal information.

Admin Management: Registration and Profiles: Admin can create accounts to manage their Plants, add new plants into system, and update nursery information.

Payment Processing: Online Payments: Integration with payment gateways allows users to Donate for new update.

Route Management: Provides information about different type of nursery.

7.Advantages and Disadvantages

a. Advantages

1. Less Time consuming.
2. Provide fast and easy access
3. User Friendly interface
4. Digital Platform for Framers for buying plants.

b. Disadvantages

1. Delay in plant delivery.

8.Conclusion and Future work

In Conclusion, we provide a interactive platform for framers and nursery owner for buying and selling of plants . By digitalizing the traditional plant selling business, this system not only saves time but also provide better facility for framers in buying plants. Further in future we will launch the application of this platform and it will be more advanced , real-time and will be more corrective

Bibliography

1. https://www.gardencentermag.com/news/ship-my-plants-buy-plants-online-marketplace/
2. https://www.fynd.com/en-in/blog/sell-plants-online
3. https://rootbridges.com/collections/plants