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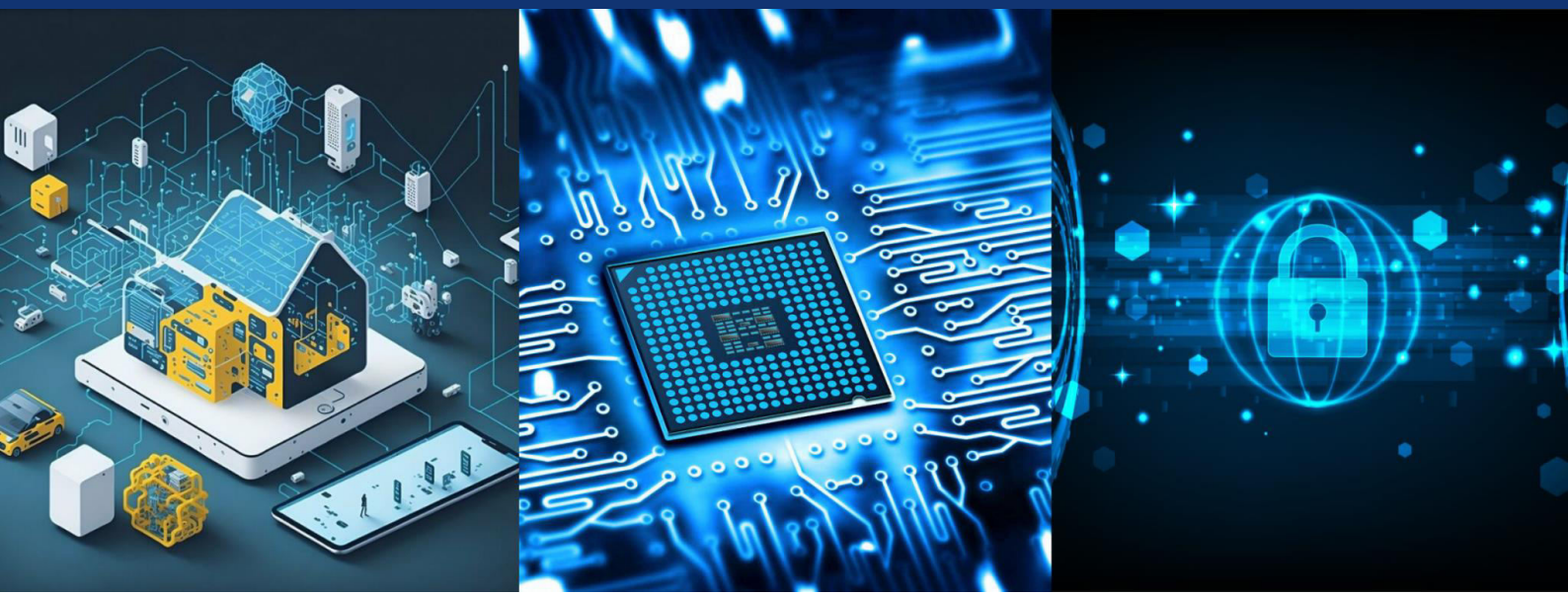

International Journal of Innovative Research in Computer and Communication Engineering

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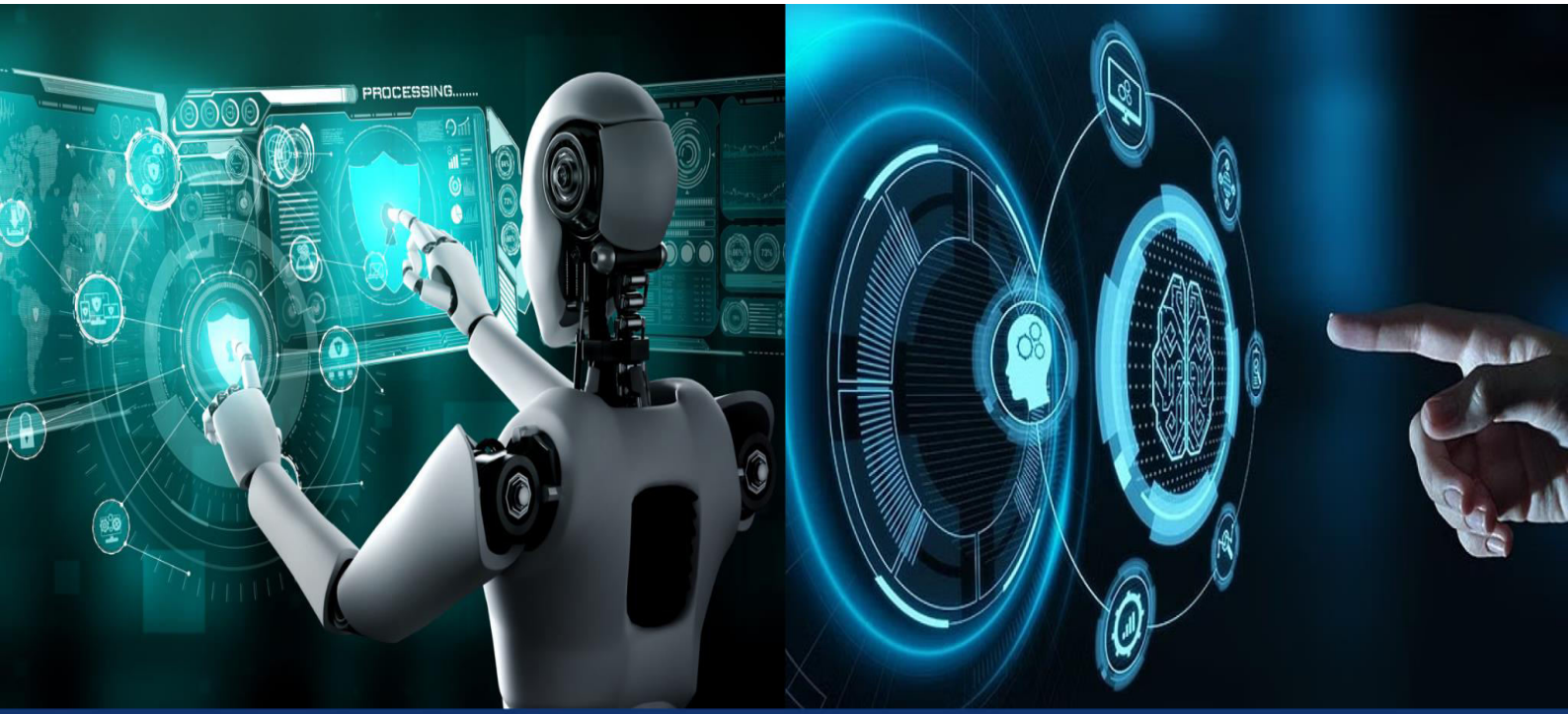

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International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)

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Study & Development of Web based Nursery Application

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ABSTRACT: This project is aimed at development a Web application that depicts online shopping of plants, seeds ,fertilizers and flowers etc. products .Using this software , companies can improve the efficiency of their services. Online Shopping is one of the applications to improve the marketing and sale of the company's products. This web application involves all the basic features of online shopping. As getting the information from various research papers and other sources we analyze that many peoples want to buy a plants and they directly concerned to nursery but sometimes people doesn't know specific information about particular plant items as well seller is not technically skilled. Customer doesn't compare plants pricing with different shopkeeper as well as in nursery there is no facility for online payment only cash may consume. So, in this case e-nursery is platform where customer can compare plants pricing and make online payment easily. Customer service is extremely important. We want each customer to have a pleasant shopping experience, and it is the intention of our staff to answer questions with expertise and to offer advice when we feel it is needed. Retain customers to generate repeat purchases and make referrals. Continue to expand daily sales by adding to the variety of plants we sell. Communicate with our customers through creative advertising.

KEYWORDS: Energy efficient algorithm; Manets; total transmission energy; maximum number of hops; network lifetime

I. INTRODUCTION

A nursery is a place where plants are propagated and grown to a desired age. They include retail nurseries which sell to the general public, wholesale nurseries which sell only to businesses such as other nurseries and to commercial gardeners, and private nurseries which supply the needs of institutions or private estates. Nurseries may supply plants for gardens, for agriculture, for forestry and for conservation biology. Some produce bulk stock, whether seedlings or grafted, of particular varieties for purposes such as fruit trees for orchards, or timber trees for forestry. In present era, the importance of Online Nursery Store is growing up day by day, user needs a simple interface to order Plants online this project Online Nursery Store fullfils all the requirements of user and it provides an easy interface to navigate. We have simplified the flow of Plants ordering in this project so if a person wants to buy Plants then he can easily order online on some clicks only. The Online Nursery Store is based on ordering of the Plants online. This Online Nursery Store allows the user to select the desired Plants from a list of available menu items. The customer can easily place orders for the Plants items of their choice For ordering the Plants customer needs to register into the system with their details and after the registration customer can filtered out the Plants according to the Nursery Type Company, he will add the Plants into the cart and make payment. Some produce stock seasonally, ready in springtime for export to colder regions where propagation could not have been started so early, or to regions where seasonal pests prevent profitable growing early in the season.

II. RELATED WORK

Plant Nursery Inventory Management Effective inventory management is one of the primary challenges for nursery owners. Traditional methods of tracking plants (e.g., paper logs or spreadsheets) can be time-consuming and prone to errors. In their study, Kumar et al. (2016) emphasized the importance of accurate inventory management in nurseries to minimize wastage, reduce the risk of overstocking or understocking, and ensure plant health. The study proposed a database management system that tracks plant species, quantities, and care requirements. This allowed for more precise

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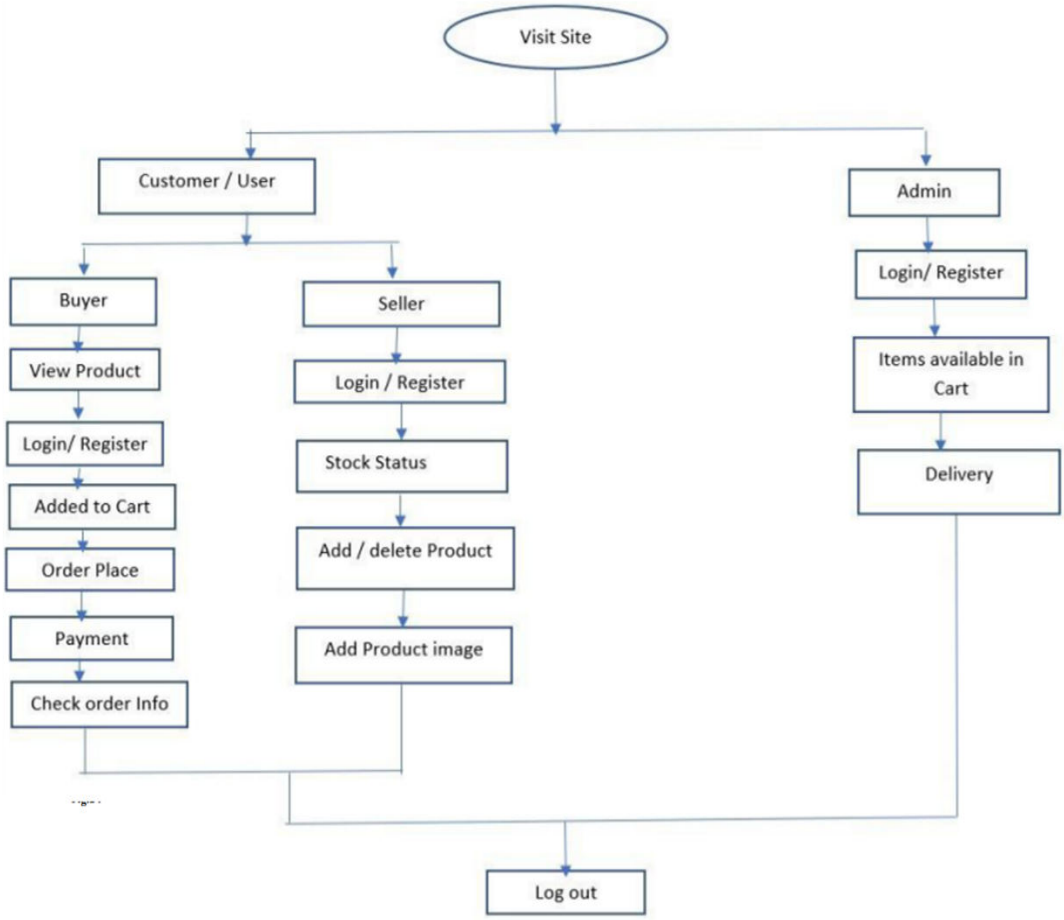
planning and forecasting of plant demand. Ravi and Ramasamy (2018) further explored the use of barcode and RFID technologies to streamline inventory management in nurseries. They highlighted the need for real-time stock monitoring and the role of automated systems in enhancing operational efficiency. These systems could track not only plant inventory but also details like growth stages, required fertilizers, watering schedules, and diseases.

Sales and Order Management Sales and order management are crucial for maintaining a profitable nursery operation. Patel and Desai (2017) developed a prototype system for managing customer orders and sales transactions. The study explored the integration of a Customer Relationship Management (CRM) system with the nursery's sales database. This allowed sales personnel to track orders, provide accurate pricing, manage customer inquiries, and generate invoices with ease. The system also featured a user-friendly interface, making it easier for nursery staff to manage customer relationships and handle orders efficiently. Similarly, Singh and Choudhary (2020) proposed a web-based platform for nursery management that combined sales tracking with inventory control. Their approach emphasized the importance of a cloud-based system that allowed managers to track plant sales in real-time, update inventory levels, and provide instant quotations to customers. This system also integrated payment gateways, making transactions smoother for customer.

III. PROPOSED SYSTEM

The Plant Nursery Management System aims to create an efficient, automated, and user friendly platform for nurseries to manage their operations effectively. By integrating inventory management, sales tracking, plant care, and customer relationship tools, the system will significantly improve operational efficiency, reduce manual errors, and enhance customer satisfaction, making it a valuable asset to any nursery business.



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IV. MODULES

1. User Management Module Purpose: To manage user accounts and roles. Features: User registration and login. Role-based access (e.g., admin, staff, and customers). Profile management.
2. Product Catalog Module Purpose: To display plants and related products. Features: Categories of plants (e.g., indoor, outdoor, succulents, seeds). Product details (name, price, description, care instructions). High-quality images of plants. Real-time stock availability.
3. Order Management Module Purpose: To manage customer orders efficiently. Features: Order placement (cart, checkout). Order tracking and status updates. Payment processing integration (e.g., online payments, COD). Invoice generation.
4. Admin Module Purpose: To provide administrative control over the system. Features: Dashboard with key metrics (sales, orders, inventory). Manage users, products, and orders. System configuration (e.g., tax rates, discounts). Generate reports (sales, inventory, user activity).
5. Plant Care Guide Module Purpose: To educate users about plant care. Features: Articles and tutorials on plant maintenance. Seasonal care tips. Troubleshooting common plant issues (e.g., pests, diseases).
6. Notifications Module Purpose: To keep users informed. Features: Email and SMS alerts for orders and payments. Notifications for offers, plant care tips, and system updates. Admin notifications for low stock and new orders.

V.CONCLUSION AND FUTURE WORK

The plant nursery web application is a simple way for people to buy plants online, and for nurseries to manage their plants and customers. The proposed system can guarantee to keep the records are safe and privacy which is stored in the database. It converts unstructured data into structured data and sorted format. The system can be implemented with different classifier for comparison to see accuracy and number of products recognized at a time. The website ca be enhanced for more products and with variety. Speed can can be increased with enhanced filtration of machine leaning algorithms.

REFERENCES

1. Kumar, S., & Gupta, M. (2016). A Database Management System for Plant Nursery Inventory Management. Journal of Agricultural Informatics, 7(1), 45-58
2. Ravi, V., & Ramasamy, P. (2018). The Role of RFID and Barcode Technology in Nursery Inventory Management. International Journal of Smart Agriculture, 4(2), 33-47.
3. Patel, R., & Desai, R. (2017). Design of a Web-Based Plant Nursery Management System with CRM Integration. Proceedings of the International Conference on Agricultural Technology, 145-153.
4. Singh, A., & Choudhary, R. (2020). Cloud-Based Sales and Inventory Management System for Plant Nurseries. International Journal of Computer Applications, 171(3), 23-30.
5. Ghosh, S., & Sinha, M. (2019). Leveraging CRM Systems for Enhancing Customer Loyalty in Plant Nurseries. Journal of Business Retail Management Research, 14(1), 65-73.
6. Nair, D., et al. (2021). Mobile Applications for Enhancing Customer Engagement in Plant Nurseries. Proceedings of the International Conference on Mobile Computing, 78-85.

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