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COLLEGE OF ENGINEERING
(A U T O N O M O U S)

PLANT NURSEY AND MONITORING SYSTEM

23MCA2045 - Mini Project

Scrum Master

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**DEPARTMENT OF
COMPUTER APPLICATIONS**



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ABSTRACT

Enchanted Eden is a plant nursery web application designed to provide a comprehensive platform for plant enthusiasts. The application allows guest users to explore a diverse catalog of plants, featuring detailed product listings, filtering options based on plant requirements, and customer reviews. Guest users can browse and explore but need to register to access personalized features.

Registered users benefit from enhanced functionalities, including the ability to purchase plants, view and access product information such as care instructions, view status orders in real-time, and manage their profiles. They can contribute feedback, register purchased plants for continuous monitoring, and book skilled farmers for systematic cultivation. Additionally, they can design virtual gardens using user-uploaded images and utilize machine learning for pest and disease detection. Note that delivery services and farmer availability are restricted to specific geographic areas.

Administrative staff utilize Enchanted Eden's backend tools to manage the platform effectively, including monitoring sales metrics, analyzing customer feedback, and maintaining inventory. They handle order management, user account administration, and moderation of user-generated content. Delivery personnel update order statuses in real-time, ensuring efficient and transparent delivery processes.

Agricultural experts interact with users through community forums, offer personalized plant care advice, and contribute educational content such as blog posts and tutorials.

Enchanted Eden aims to transform the digital landscape of plant cultivation and gardening by integrating practical e-commerce functionalities with educational resources and expert guidance. The platform fosters a vibrant community of plant enthusiasts, promotes sustainable gardening practices, and supports agricultural knowledge sharing.

Mini Project Functionalities

User Categories and Responsibilities:

Guest Users:

- Browse products across categories.
- View general product information.
- Filter products by sunlight, water needs, climate, and more.
- Login.

Registered Users:

- Create accounts to access personalized features.
- View styles of cultivation.
- Leave product feedback.
- Purchase plants and view delivery details.

Administrative Staff:

- Manage product inventory: add, update, and remove items.
- Provide planting details of purchased products.
- Monitor user activity and moderate feedback.
- Generate reports on sales and customer feedback.
- Update and monitor the status of delivered products.

Main Project Functionalities

Guest Users:

- Access blog articles and educational resources related to gardening.

Registered Users (Extended):

- Submit monthly reviews of plants with image uploads and view feedback.
- Register plants not purchased from the shop for monthly reviewing.
- Participate in Q&A sessions with ML.

- Request planting assistance from the nursery (provide workers for planting) as needed.
- Design and plan virtual gardens using user-uploaded images.
- Utilize machine learning for pest and disease detection from uploaded plant images.

Plant Care Specialists (Experts):

- Create and manage blog posts and agricultural news.
- Provide expert feedback on monthly plant reviews submitted by users.

Administrative Staff:

- Assign, update, and remove plant care specialists based on their expertise.
- Allocate skilled farmers to assist with planting requests and manage their availability.
- Set alerts for timely restocking based on inventory levels and demand trends.
- Interface for assigning orders to delivery personnel, ensuring timely and efficient order fulfillment.

Delivery Personnel:

- Access a list of assigned delivery orders for efficient management.
- View detailed information for each assigned order, including customer address and delivery instructions.
- Update the status of orders in real-time to keep customers informed.

TABLE DESIGN

