ABSTRACT

This plant nursery web application is a multi-functional platform designed to serve different user roles, enhancing the gardening experience. Guest users can browse products, utilize advanced filters for personalized plant searches, and view product details. Registered users gain access to personalized plant care recommendations, purchase items, and track their orders in real-time through GPS. Additionally, they can engage in live Q&A sessions with gardening experts, diagnose plant health issues using AI tools, and use augmented reality (AR) to visualize plant placement. Administrative staff manages inventory, order tracking, and expert sessions, while also moderating user feedback and generating reports. Experts provide real-time guidance, review plant health reports, and contribute educational content to help users. Delivery personnel are responsible for managing order deliveries, updating delivery statuses, and ensuring timely communication with users. This integrated system provides an all-encompassing platform that combines shopping, expert advice, and efficient delivery for a seamless gardening experience.

User Categories and Responsibilities

Mini Project Features:

Guest Users:

- Browse products and view basic information.
- Use simple filters (sunlight, water needs, climate).
- Login to create an account.

Registered Users:

- Create accounts and manage personal profiles.
- View basic plant care recommendations.
- Purchase plants.
- View and track order details.

Administrative Staff:

- Manage product inventory (add, update, remove items).
- Provide basic planting details for purchased products.

- Generate basic sales and activity reports.
- Monitor and update order statuses.

Main Project Features:

Registered Users:

- Track orders in real-time using GPS integration.
- Confirm deliveries using QR code scanning.
- Participate in live Q&A sessions with gardening experts.
- Submit plant health reports (images and descriptions) for expert feedback and personalized plant care recommendations.
- Diagnose plant health issues, pests, and diseases through AI tools.
- Visualize plants in their space using augmented reality (AR).
- Read and contribute reviews and feedback on products.
- Chat or call with gardening experts for personalized advice and support.
- Interact with an AI-powered chatbot for instant query resolution.

Administrative Staff:

- Organize and schedule live Q&A sessions with experts.
- Monitor reviews and user feedback.
- Generate detailed sales and activity reports.
- Provide expert feedback on plant health reports.
- Manage and schedule expert availability for chat or call support if needed.

Experts:

- Offer real-time guidance during live Q&A sessions.
- Review and analyze monthly plant health reports submitted by users.
- Provide personalized plant care advice based on user queries.
- Create educational content (blogs, tutorials) on gardening techniques, tools, and technologies.
- Engage with users via chat or call features for direct consultation.

Delivery Personnel:

- Access order details and delivery routes via GPS integration.
- Confirm deliveries by scanning QR codes.
- Update order delivery statuses in real-time.
- Communicate with users for timely delivery.