Heaven's Light is Our Guide

RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOGY

Department of Computer Science & Engineering

Project Proposal

Course Code   : CSE 2100

Course Name   : Software Development Project I

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Project Proposal

Project Title: Plant Care Reminder

Objective:

To create a user-friendly, web-based application that helps plant enthusiasts efficiently manage the care routines of their plants by scheduling tasks, setting reminders, and offering helpful care tips. This website aims to assist users in keeping their plants healthy while reducing the stress of remembering care schedules.

Rationale:

Many plant owners face difficulties in maintaining consistent care routines for their plants due to busy schedules or lack of proper planning. Forgetting to water, fertilize, or check plant health often leads to the decline of plants, especially for beginners. The "Plant Care Reminder" website addresses these challenges by providing an organized platform where users can record plant details, set customized care schedules, and receive timely reminders for tasks like watering, fertilizing, and pruning. Additionally, the website serves as a knowledge hub by offering plant care tips, making it an ideal tool for both beginners and experienced plant enthusiasts.

Proposed Features:

The website will include the following features:

1. **Homepage:**

    o A welcoming interface explaining the purpose and benefits of the platform.

    o Quick-start guide for new users to learn how to add plants and set schedules.

2. **Plant Management Dashboard:**

    o A central page displaying all added plants with images and their care schedules.

- Visual indicators for upcoming or overdue tasks.
- Filters to search plants by name or type.

3. **Add/Edit Plant Page:**
   - A form to input plant details such as:
     - Plant name.
     - Type (e.g., flowering, succulent, indoor).
     - An optional image upload feature for plant identification.
     - Care tasks with customizable schedules (e.g., water every 3 days).
   - The ability to edit or delete plant entries.

4. **Reminder Notification System:**
   - Browser-based notifications to remind users of upcoming tasks.
   - Highlight overdue tasks on the dashboard.
   - Option to set task notifications as email reminders (optional).

5. **Task History Tracker:**
   - A log for completed tasks to help users track the care routines of each plant.

6. **Plant Care Tips Section:**
   - A library of general care tips for common plant types, including watering, light exposure, and fertilizing.
   - Seasonal care advice to address specific plant needs during different times of the year.

7. **Optional Advanced Features:**
   - **User Accounts:**
     - Enable users to save and access their data across devices by creating an account.
     - A secure login system with registration options.
   - **Integration with Plant Databases:**

- Use external APIs to fetch plant-specific data (e.g., scientific names, ideal care conditions).

  o **Community Forum:**

    - A space for plant lovers to discuss care techniques, share photos, and seek advice.

Target Audience:

- Plant enthusiasts who want to organize and improve their plant care routines.
- Beginners seeking guidance for plant care.
- Individuals with busy schedules who need task reminders.