Project Proposal for Term Final Project

1. Title of the Project:

Tree Plantation Tracker: A Global Platform for Planting and Tracking Trees

Submitted to: Shafiul Topon

2. Problem Statement:

As environmental concerns grow, many individuals, communities, and organizations worldwide are planting trees to combat climate change and improve local ecosystems. However, they face challenges in tracking the growth and health of these trees, managing their planting activities, and sharing their progress. This project aims to provide a global platform for anyone interested in planting and tracking trees, ensuring they can monitor their trees' health, schedule tasks, and share their journey.

3. Features:

- - Tree Tracking: Users can add, monitor, and track their trees' growth.
- - Plant Health Monitoring: Users can log and update the health status of their trees.
- - Task Scheduling: Users can schedule essential activities such as watering, fertilizing, and pest control.
- - Community Sharing: Users can share updates, photos, and experiences with a global tree-planting community.
- - User Dashboard: A simple and user-friendly interface to manage all tracking activities.
- - Global Accessibility: Open to anyone worldwide interested in planting and tracking trees.

4. Methodology and Approach:

- - Phase 1: Requirements Gathering & Design – Understanding the needs of users and designing system architecture.
- - Phase 2: Development – Backend in Python Django, frontend in HTML, CSS, JavaScript.
- - Phase 3: Testing & Debugging – Ensuring smooth functionality.
- - Phase 4: Deployment – Hosting the application on a cloud platform.
- - Phase 5: Evaluation & Feedback – Gathering user feedback and making improvements.

5. Technologies Used:

- - Backend: Python Django
- - Frontend: HTML, CSS, JavaScript (with Bootstrap for UI)
- - Database: PostgreSQL

- - Deployment: Heroku or any suitable cloud service
- - Version Control: Git/GitHub

6. Expected Outcomes:

- - Empower users to track and manage their trees effectively.
- - Encourage tree planting by providing a simple tracking solution.
- - Build a community-driven platform to share experiences.
- - Raise awareness about environmental sustainability.

7. Timeline:

Phase	Start Date	End Date
Requirements Gathering & Design	March 4, 2025	March 8, 2025
Development	March 9, 2025	March 15, 2025
Testing & Debugging	March 16, 2025	March 18, 2025
Deployment	March 19, 2025	March 20, 2025
Evaluation & Feedback	March 21, 2025	March 27, 2025

8. Project Feasibility:

This project is achievable with the available resources. Python Django provides a strong backend framework, and the frontend is simple enough to make it accessible to users worldwide. The project timeline of 25 days ensures that core features can be developed, tested, and refined based on user feedback.

9. Conclusion:

The Tree Plantation Tracker project will serve as a vital tool for individuals worldwide who are planting and tracking trees, whether for personal, environmental, or community-driven reasons. By providing a platform to track plant health, schedule essential tasks, and engage with a global community, this project will empower users to take better care of their trees and contribute to global environmental sustainability.

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