



# SOEN6222 POE PART 1

Submission

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# SOFTWARE REQUIREMENTS DOCUMENT FOR TREE SAVING NON-PROFIT

## Introduction

**Purpose:** The tree saving organization is a nonprofit organization aimed at the protection of trees in the environment by promoting the importance of the trees and creating tree planting efforts.

**Objectives:** The software is meant to assist the non-profit in collecting all the donations, managing the volunteering, track the tree planting efforts, facilitate communication and collaboration within the community and raise awareness to the cause. For this software it would be wise to use the agile development due to the benefits such as adaptability, user-centric design, the quality assurance and incremental development. The software would need to be able to handle the fluctuations in data that might occur in its use, the incremental development process separates the work into more manageable parts, making it easier for developers to make any changes in the later stages should it be required(Waters,2024).

## Project Timeline:

- Phase 1: Requirements Gathering and Planning (2 weeks)
- Phase 2:UX/UI Design and Prototyping (3 weeks)
- Phase 3: Front and Back-end development(8 weeks)
- Phase 4: Testing (3 weeks)
- Phase 5: Deployment (2 weeks)

## Stakeholders:

- Project Manager
- Development Team
- Non-Profit Organization Staff
- End Users (Supporters, volunteers and donors)

## Functional Requirements

- Progress monitor (for planting efforts)
- Volunteering form where the volunteers sign up for planting

- Blog for the supporters to communicate with the organization
- Donation management pay gate where donors will contribute to the cause
- About us page outlining the impact and purpose of Tree saving Non-profit
- User Authentication to access accounts made for blog
- Search Functionality to find the information the user desires
- Event management
- User Profile Management
- Community Forums for users to show support and raise awareness

### Non-functional Requirements

- Usability
- Readability
- Scalability
- Security
- Data Integrity

### External Interface Requirements for Tree-Saving Non-Profit Software

#### Reporting and Analytics Interface:

The system shall provide an interface for admin to generate reports on donations, user engagement, and event participation. Through these reports the staff would be able to see which areas can be improved .

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