**Phase 2:** Project Planning Phase

**Project Title:** To Supply Leftover Food to Poor

## Introduction

Project planning is a vital step that ensures smooth execution and delivery. It defines the workflow, responsibilities, and goals of the team to achieve the intended social impact effectively. For this project, planning focuses on how surplus food from restaurants, hotels, and events can be collected, stored safely, and distributed to the needy within a short timeframe.

## Project Overview

The "To Supply Leftover Food to Poor" project aims to develop a system that connects food donors (such as restaurants, canteens, and households) with nearby NGOs and volunteers who can distribute the food to underprivileged communities. The goal is to reduce food wastage and ensure that surplus meals reach those in need before they spoil.

This phase outlines the objectives, required tools, team roles, and timeline to ensure successful planning and execution.

## Project Goals

- To create a platform that connects food donors and distributors in real time.
- To minimize food wastage by efficiently redistributing leftover food to the poor.
- To ensure food safety by tracking pickup and delivery times.
- To raise awareness about hunger and promote social responsibility.

## Tools and Technologies Used

The system will be developed using modern web and mobile technologies that enable easy communication, tracking, and data management.

- Platform: Salesforce Developer Edition (for managing data and workflows).

- Front-End Tools: HTML, CSS, JavaScript, React.js (for user interface design).

- Back-End Tools: Node.js and Express.js (for managing data flow and APIs).

- Database: MongoDB (to store donor, volunteer, and food request information).

- Tracking Tools: Google Maps API (for real-time location tracking).

- Development Environment: Visual Studio Code.

- Progress Tracking: SmartInternz Portal (for project updates).

- Version Control: GitHub (for documentation and version management).

## Team Structure and Roles

- Project Lead: Oversees planning, development, and coordination with NGOs and volunteers.

- Front-End Developer: Designs user-friendly interfaces for donors and recipients.

- Back-End Developer: Handles data management, authentication, and API integration.

- Tester: Ensures proper functionality of food request, pickup, and delivery modules.

- Outreach Coordinator: Communicates with local NGOs, donors, and communities.

- Documentation Specialist: Prepares reports and maintains project documentation.

## Risk Management

Possible risks include delays in food collection, data mismatches, or hygiene concerns.

These will be minimized by:

- Setting strict pickup timelines and monitoring through GPS tracking.
- Regular testing of system functionalities.
- Creating clear communication channels between donors and volunteers.
- Maintaining backups of data and delivery logs on GitHub.

## Monitoring and Evaluation

Progress will be tracked through:

- Regular milestone reviews in SmartInternz.
- Monitoring successful deliveries via the dashboard.
- Gathering feedback from NGOs and recipients to improve services.
- Evaluating response time and number of meals delivered.

## Project Timeline

| Phase | Task Description | Duration |
|---|---|---|
| Phase 1 | Ideation and topic selection | 2 days |
| Phase 2 | Planning and team setup | 2 days |
| Phase 3 | System design and prototype development | 5 days |
| Phase 4 | Database setup and workflow integration | 3 days |
| Phase 5 | Testing and awareness campaign | 3 days |
| Final Submission | Upload to GitHub and SmartInternz | 1 day |

## Conclusion

The Project Planning Phase for "To Supply Leftover Food to Poor" sets a clear and structured approach for implementation. By leveraging modern technologies and community collaboration, the project aims to create a bridge between food donors and needy individuals.

With well-defined roles, effective communication, and proper risk management, this project will contribute significantly to reducing food waste and hunger. This plan provides a strong foundation for a sustainable and impactful solution to one of society's critical problems.