**Sustainable Development Goal (SDG) Problem Definition Document**

Project Title: NGO Donation Management and Distribution System

Targeted SDG: Goal 1 - No Poverty

1. **Introduction**

The Sustainable Development Goal (SDG) 1, "No Poverty," aims to end poverty in all its forms everywhere. This goal focuses on ensuring that all people, especially the most vulnerable, have access to basic services, including food, clothing, and shelter. The role of Non-Governmental Organizations (NGOs) is crucial in addressing these challenges by efficiently managing and distributing resources to communities in need.

To support the efforts of NGOs, this project involves the development of a database system designed to streamline the management and distribution of donated items, both monetary and in-kind, ensuring that resources reach the communities that need them most effectively.

2. **Problem Statement**

Many NGOs face significant challenges in managing donations and ensuring that they are effectively distributed to the intended communities. These challenges include:

1. Inefficient Tracking of Donations: There is often a lack of a structured system to track what donations have been received, their types, quantities, and their allocation to different communities.

2. Poor Management of Community Needs: NGOs struggle to keep an accurate and up-to-date record of community needs and the status of items that have been sent to them.

3. Lack of Transparency and Accountability: Without a proper system, it becomes difficult to provide transparent reports to donors and stakeholders about how donations are being utilized.

4. Manual and Error-Prone Processes: The manual handling of data related to donations and their distribution is prone to errors, leading to misallocation of resources and inefficiencies in addressing poverty.

3. **Objectives**

The primary objective of this database system is to:

- Efficiently Manage Donations: Track and manage all donations received by the NGO, including their type (monetary or in-kind), quantities, and status.

- Facilitate Transparent Distribution: Ensure that all donations are allocated appropriately to communities based on their needs and track the status of these donations in real-time.

- Enhance Community Management: Enable community managers to update the status of items received by their communities and provide feedback on the adequacy of resources.

- Improve Accountability: Generate reports that provide transparency to donors and stakeholders regarding the usage and impact of their donations.

4. **Scope of Work**

The scope of this project includes the development and implementation of the following:

1. User Management System:

- Roles: Admin, Donor, and Community Manager.

- Functions: Manage user access, roles, and responsibilities.

2. Donation Management System:

- Track donations (both monetary and in-kind).

- Manage donation status (pending, received, not received).

- Handle remaining quantities of donated items.

3. Community Management System:

- Track communities receiving donations.

- Assign community managers to specific communities.

- Update and manage the status of donations in real-time.

4. Reporting System:

- Generate reports on donation status, community needs, and distribution efficiency.

- Provide transparency to stakeholders and donors.

5. Data Management and Security

Given the sensitivity of the data, especially donor information and the allocation of resources, the system will include:

- Data Encryption: To protect donor and community data.

- Access Control: Only authorized personnel (based on roles) will have access to specific data.

- Audit Logs: To track changes made to the database and maintain accountability.

6. **Expected Impact**

By implementing this database system, NGOs will be able to:

- Reduce Poverty: Through the efficient and targeted distribution of resources to communities most in need.

- Increase Efficiency: By automating donation management processes, reducing errors, and ensuring timely delivery of aid.

- Enhance Transparency: By providing detailed reports to stakeholders, building trust and encouraging more donations.

7. **Conclusion**

This project is directly aligned with SDG 1, "No Poverty," as it aims to enhance the capacity of NGOs to manage and distribute donations more effectively. By addressing the outlined challenges through the proposed database system, the NGO will be better equipped to contribute to poverty alleviation in the communities they serve.