

Software Requirements Specification Document (SRSD)

NGO-AOMSYS (NGO Aid Operations Management System)

1. Introduction

NGO-AOMSYS is a software system designed to facilitate the management and allocation of aid provisions by a non-governmental organization (NGO). The system aims to streamline the process of receiving donations, managing volunteers, handling aid requests from individuals in need, coordinating aid operations, and providing comprehensive reporting for administrative purposes.

2. System Overview

NGO-AOMSYS encompasses the following key features:

- **Donor Management:** Registration, donation selection (cash or in-kind), historical donation tracking, and shipping preferences.
- **Volunteer Management:** Registration, profile creation, approval process, and availability management.
- **Indigent Aid Application:** Registration form for individuals in need to apply for aid.
- **Operation Coordination:** Aid request backlog review, aid operation scheduling, and publicity event organization.
- **System Administration:** User management, dashboard with summary statistics, and system maintenance.

3. Functional Requirements

3.1 Donor Management

- **Registration:** Donors must register to the system before contributing.
- **Donation Selection:** Donors can select donation type (cash, food, clothing, etc.) and specify shipping preferences.
- **Historical Donation Tracking:** Donors can view a historical list of their donations, including donated amount and materials.
- **Shipping Preferences:** Donors can choose to ship items themselves or request collection by the NGO.

+-----+	+-----+
Volunteer	Administrator
+-----+	+-----+
- name	- username
- profession	- password
- income	- permissions
- region	
- transport	
- availability	
+-----+	+-----+

3.3 Indigent Aid Application

- **Registration:** Indigent individuals apply for aid via a registration form.
- **Information Required:** Monthly income, household size, children's education and employment status, monthly expenditures, and aid nature needed.

3.4 Operation Coordination

- **Aid Request Review:** Operation Coordinators review aid request applications and manage a backlog.
- **Aid Operation Scheduling:** Coordinators schedule aid operations based on donations, aid requests, and volunteer availability.
- **Publicity Events:** Organize events to raise donations if thresholds drop, utilizing emails and SMS messages for awareness.

3.5 System Administration

- **User Management:** Administrator can create, query, delete, and edit registered users.
- **Dashboard:** Summary statistics displayed, including donations received, aid distributed, new volunteers, operations handled, warehouse stock, and publicity events.

4. Non-Functional Requirements

- **Security:** Secure user authentication and data encryption.

- **Scalability:** System should handle a growing number of users, donations, and aid requests.
- **Usability:** Intuitive user interfaces for donors, volunteers, and administrators.
- **Performance:** Efficient algorithms for aid operation scheduling and backlog management.
- **Reliability:** Minimal downtime and robust data backup procedures.
- **Compatibility:** Support for various devices and browsers.
- **Documentation:** Comprehensive user manuals and system documentation.

5. Optional Feature

- **GIS Component:** Annotated map display on the Operations Management screen for visual aid operation planning.

6. Conclusion

NGO-AOMSYS aims to provide a comprehensive and efficient solution for managing NGO aid operations. By incorporating donor management, volunteer coordination, aid request handling, and administrative tools, the system optimizes the allocation and distribution of aid resources, ultimately enhancing the NGO's impact in assisting communities in need.