

NGO Management System

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Abstract: *NGOs play a vital role in addressing social issues, yet many struggle with fragmented communication, donor engagement, and volunteer coordination. Traditional methods—manual logs, phone calls, and paper records—often lead to inefficiencies, lack of transparency, and missed opportunities. This project proposes a mobile-first application to streamline NGO operations, enhance trust, and showcase real-world impact through dashboards, event timelines, and secure data handling.*

Keywords: *NGOs*

I. INTRODUCTION

The NGO Engagement and Event Tracker is a mobile-first application developed to simplify and digitize the operational workflow of NGOs. It is built using Android Studio for the front end, with XML for UI design and Java for logic. Firebase is used for backend services, including authentication and real-time database management.

The Admin panel empowers NGO staff to add and manage users, create events, and maintain records. The User panel allows donors and supporters to log in securely, view upcoming events, and receive updates. While the current version does not include donation tracking or impact dashboards to protect sensitive data, future versions may include push notification features to enhance real-time communication

II. LITERATURE SURVEY

NGO Society Management: This application was developed by Shruti Ghorpade, Anushka Saware, Pragati Thoke. To overcome the drawbacks of the current system this project, provided a simple and efficient way of communication via an android app. This application had a feature which enabled the person to person to make donation. Different functions within NGO like Donation, Volunteer Registration, Tracks Donation, Views Future Or Past Event, Contact Us, Miscellaneous Contacts were available at a glance so that the Donor can use any of the features easily. This application also reduced the work of the admin by providing calendar events so that admin did not have to keep track of the information's reachability

In the proposed NGO Management System App, the Admin Panel serves as the core control center. The admin can add new events, assign tasks to volunteers, and maintain a complete record of donations received. The admin can also view donation histories, monitor volunteer participation, and analyze reports for future planning. This approach improves the overall workflow and ensures that every resource is effectively utilized

On the user side, the application provides an easy interface for donors and volunteers. Donors can contribute through multiple options such as food, books, clothes, money, and other essentials, depending on their preference. Users can also view past and upcoming events organized by the NGO in a date-wise manner, helping them stay updated and involved. The volunteer registration page allows individuals to sign up and support the organization in various campaigns, thereby encouraging community involvement

The system emphasizes transparency and accountability by maintaining detailed records of donations and event outcomes. Moreover, it provides an opportunity to bridge the gap between donors and the NGO's field activities, ensuring that the impact of donations is visible and verifiable

Future Goals

In future versions, the system can be enhanced with additional features for better engagement and authenticity. Donors will be able to upload photos of their contributions such as food packets, clothes, or books to verify the donation and



inspire others to contribute. A dedicated volunteer login module can also be added, allowing volunteers to log in, track assigned tasks, mark attendance, and upload progress updates for the admin to review. These features will further strengthen transparency, promote accountability, and create a more interactive and trustworthy NGO ecosystem

Problem Definition

NGOs face several operational challenges due to reliance on manual systems

Inefficient Communication: Event updates are often shared via phone calls or printed notices, leading to delays and missed participation.

Data Management Issues: Maintaining donor records, event logs, and attendance sheets manually is error-prone and time-consuming.

Privacy Concerns: Sensitive data such as donation amounts and donor identities must be protected, which manual systems fail to guarantee.

Limited Engagement: Without a digital platform, NGOs struggle to retain donors and volunteers, resulting in reduced impact.

To address these issues, we propose a mobile application that digitizes event management and user communication. The app ensures secure login, modular data handling, and privacy-respecting design. It simplifies NGO operations, improves transparency, and enhances stakeholder engagement.

Proposed Methodology

The application is divided into two modules: Admin and User. Each module is designed to fulfill specific roles while maintaining data integrity and user privacy

Admin Module

Admin Login: Secure login using email ID and password

Add User: Admin can register donors and supporters by entering their name, email, and flat number

Delete User: Admin can remove users from the system when necessary

Add Event: Admin can create and update events with details such as title, date, purpose, and location

Send Notifications (Planned for Future): Admin will be able to send push notifications to users about upcoming events and urgent update using Firebase Cloud Messaging

User Module

User Login: Secure login using email ID and password.

View Events: Users can browse upcoming and past events organized by the NGO.

Notifications: Users receive updates about campaigns, milestones, and urgent needs.

Event Participation: Users can mark interest or confirm attendance for events.

Resources Required:

Software Requirements:

Operating System Microsoft Windows 8/10/11 (64 bit)

Front End Android Studio

Back End Java

Hardware Requirements:

Processor Intel Dual Core Processor

RAM 16 GB

Hard-Disk 512 GB



III. CONCLUSION

The NGO Engagement and Event Tracker is a step toward ethical, scalable, and human-centered technology for social good. By digitizing operations and respecting privacy, the application empowers NGOs to streamline their workflow, engage supporters, and build trust. It reduces manual effort, improves transparency, and lays the foundation for future enhancements like notifications and volunteer coordination.

This project reflects a commitment to both technical excellence and social impact. It combines modular architecture, secure data handling, and intuitive design to create a meaningful tool for NGOs. As we move forward, we aim to refine the application based on real-world feedback and expand its capabilities to serve more communities.

