

NGO-Donor Connect: Platform for Efficient Donations

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Abstract—Non-Governmental Organizations (NGOs) support society through various social and educational initiatives, but managing donations using traditional methods often becomes slow and difficult. Donors also face challenges in finding reliable NGOs and understanding how their contributions are utilized. This project presents NGO–Donor Connect, a digital platform that includes a web-based application for NGOs and a mobile application for donors. The NGO web portal helps organizations post requirements, manage donations, and organize resources, while the donor mobile application allows users to donate money, Food items, clothes, skills, and educational materials with ease. By digitizing the donation process and improving communication, the system makes interactions more organized and encourages trust between NGOs and donors.

Index Terms—Non-Governmental Organizations (NGOs), Donation Management System, NGO–Donor Connect, Digital Donation Platform, Web Application for NGOs, Mobile Application for Donors, Resource Management, Online Donations, Transparency, Trust Building, Social Welfare System

I. INTRODUCTION

Non-Governmental Organizations (NGOs) play an important role in the development of society by working in areas such as education, food distribution, social welfare, and community support. These organizations largely depend on donations from individuals and groups to carry out their activities. However, many NGOs still rely on traditional methods like manual records, phone calls, and offline communication to manage donations, which often leads to delays, confusion, and lack of proper tracking.

At the same time, donors face difficulties in identifying trustworthy NGOs and understanding how their contributions are being used. The absence of a transparent and organized system reduces donor confidence and limits effective collaboration between NGOs and supporters.

To overcome these challenges, this project introduces NGO–Donor Connect, a digital platform designed to simplify and improve the donation process. The system

consists of a web-based application for NGOs and a mobile application for donors. NGOs can easily publish their requirements, manage incoming donations, and maintain organized records, while donors can conveniently contribute money, clothes, food items, skills, and educational materials through the mobile app.

By bringing NGOs and donors together on a single digital platform, the system improves communication, enhances transparency, and builds trust. This digital approach saves time and effort and ensures that donations reach the right place efficiently, making the overall donation process more reliable and impactful.

Overall, the NGO–Donor Connect platform aims to modernize the traditional donation system by using digital technology to create a centralized and reliable solution. The platform reduces manual work, minimizes errors, and improves efficiency in managing donations and resources. By providing a structured and user-friendly system, it helps NGOs operate more smoothly while enabling donors to contribute with confidence. This project demonstrates how technology can be effectively used to support social initiatives and improve the overall impact of charitable activities.

II. LITERATURE SURVEY

- i.) Dr. Sonia H. Bajaj (2025) presented a research paper titled “AI-Enhanced Donation Management System”, published in the International Journal for Research in Applied Science & Engineering Technology (IJRASET).
- ii.) ii.)Ravindu Wijesundara (2023) published “Development of a Web-Based Charity Organizations and Donation Management System: A Case Study” in the Research Gate.
- iii.) Ayesha Urooj (2023) published a review paper titled “ENTRUST: A Charity Donation Application Using Concepts of AI / ML” in the International Journal of Scientific Engineering and Research (IJSER)

- iv.) Shilpi Singh et al. (2024) presented “DONAPP: A Centralized Platform for Bridging the Gap between Donors and Recipients” in the The Open Nursing Journal.

II. METHODOLOGY

The objective of this methodology is to create a reliable, transparent, and user-friendly system that simplifies donation management for NGOs and provides a convenient donation experience for donors.

2.1 Requirement Analysis:

The first phase of the methodology is requirement analysis. In this phase, the needs of both NGOs and donors are carefully studied. NGOs require a system that enables them to register, publish their requirements, manage incoming donations, track available resources, and maintain proper records. Donors require a trustworthy platform where they can identify NGOs, understand their needs, donate money, food, clothes, skills, and educational materials, and track the status of their contributions. Existing donation systems and research studies are also reviewed to identify gaps and limitations.

2.2 System Design:

After identifying the requirements, the system design phase is carried out. The platform is designed with two major components: a web-based application for NGOs and a mobile application for donors. The NGO web portal allows organizations to manage profiles, post requirements, receive and manage donations, and communicate with donors. The donor mobile application provides an easy-to-use interface to view NGO requirements, make donations, and receive updates. A centralized database is designed to securely store NGO information, donor details, donation records, and tracking data.

2.3 Technology Selection:

In this phase, suitable technologies are selected for system development. Web technologies are used for developing the NGO portal, while Android technologies are used for developing the donor mobile application. A common backend and database are implemented to ensure real-time data synchronization between both platforms. Development tools and frameworks are selected to ensure efficiency, scalability, and ease of maintenance.

2.4 Implementation:

The implementation phase involves the actual development of the system. Database tables are created to store information related to NGOs, donors, and donations. User-friendly interfaces are developed for both the web portal and mobile application. Backend logic is implemented to handle donation submissions, updates, tracking, and notifications. Application Programming Interfaces (APIs) are used to establish communication between the web and mobile applications, ensuring smooth data exchange.

2.5 Testing:

After implementation, the system undergoes thorough testing to ensure correct functionality and reliability. Unit testing is performed on individual modules such as registration, donation submission, and tracking. Integration testing is carried out to verify proper interaction between the web application, mobile application, and database. User feedback is also considered to improve usability and fix any identified issues.

2.6 Deployment and Maintenance:

Once testing is completed successfully, the system is deployed for real-world use. The NGO web portal is hosted on a server, and the donor mobile application is made available to users. Regular maintenance is planned to fix bugs, improve performance, and add new features as required.

2.7 Expected Outcomes:

The expected outcomes of this methodology include improved donation management for NGOs, a transparent and convenient donation process for donors, real-time tracking of donations, improved communication between NGOs and donors, and increased trust in donation activities. The methodology ensures that the NGO–Donor Connect platform effectively supports social welfare initiatives through the use of digital technology.

III. DIAGRAM

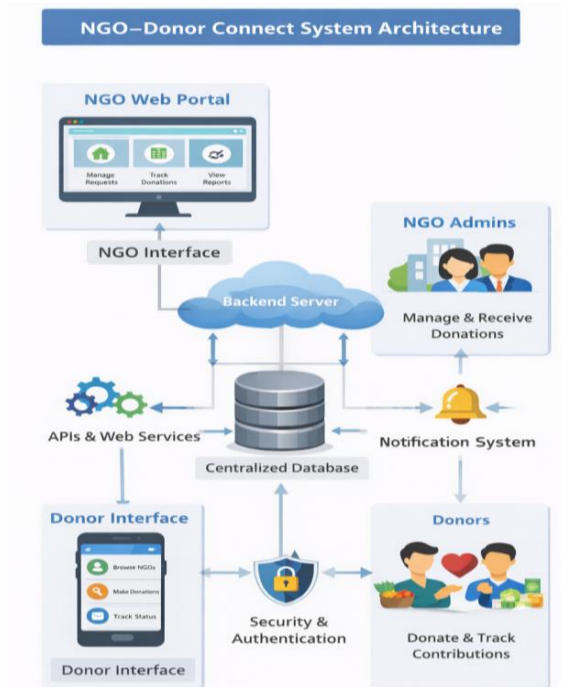
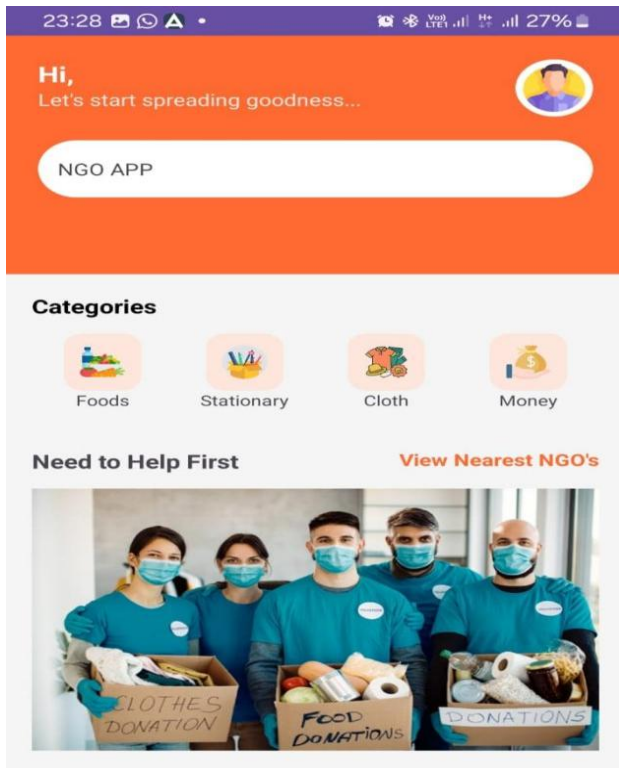


Fig. Architecture of working

IV. RESULT



NGO APP

Create your Account

- Or Sign up with -

[Already have an account? Login](#)

V. CONCLUSION

The design and implementation of the NGO-Donor Connect platform demonstrate how digital technology can significantly improve the way donations are managed and distributed. By providing a web-based portal for NGOs and a mobile application for donors, the system successfully addresses challenges such as lack of transparency, inefficient manual processes, and limited communication between donors and organizations.

The platform improves donation efficiency by automating key activities such as donor registration, requirement posting, donation tracking, and record management. This reduces manual effort for NGOs and ensures faster and more accurate handling of donations. Donors benefit from a simple and reliable interface that allows them to contribute food, clothes, educational materials, and other essentials with confidence.

Transparency and accountability are strengthened through real-time tracking and digital record keeping. Donors can clearly understand how their contributions are utilized, while NGOs can monitor incoming resources and manage them effectively. The centralized database further simplifies donor and resource management, enabling better coordination and organization.

Overall, the NGO–Donor Connect system proves to be a secure, user-friendly, and efficient solution for modern donation management. It enhances trust, improves engagement between NGOs and donors, and supports long-term social welfare activities. The project highlights the transformative potential of smart donation platforms in building a more transparent and organized charitable ecosystem.

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