International Journal of Advanced Technology in Engineering and Science
Vol. No. 12, Issue No. 04, April 2024
www.ijates.com
ijates
ISSN 2348 - 7550

Sahaayata: A Web Portal for NGO in Social Work

Mr. Parag Achaliya[1], Mr. Chetan Borse[2], Ms. Mitali Aher[3], Mr. Krishna Lonari[4], Ms. Vidya Jejure[5]

SNJB's Late Sau K. B. Jain College of Engineering, Chandwad, Nashik, Maharashtra State, India

Abstract - The Sahaayata portal serves as a comprehensive platform facilitating smooth interactions between donors and NGOs. It accommodates three primary user roles: Donor, NGO, and Super Admin. Donors benefit from a user-friendly interface for easy registration, login, and browsing. They can express donation interests, apply filters to find suitable NGOs, and access analysis reports for informed decisions. Donors can offer feedback, ratings, and track their donations through NGO updates. Super Admin oversees donor feedback for system evaluation. This system aims to streamline donations, enhance transparency, and foster collaboration between donors and NGOs, thereby bolstering philanthropic success.

Keywords*: *Sahaayata, NGO, Donor

1. INTRODUCTION

The NGO and Donor System stands as a resilient and user-centric platform crafted to nurture a mutually beneficial relationship among donors, non-governmental organizations (NGOs), and the Super Admin. Anchored in principles of transparency and efficiency, the system caters comprehensively to the diverse needs of its three primary user groups. Donors encounter a frictionless journey, enabling them to seamlessly register, log in, and explore potential donation avenues within NGOs. Equipped with robust filtering tools, donors access analysis reports and monitor contributions through real-time updates. NGOs undergo a rigorous registration process, submitting documents for Super Admin approval to uphold credibility. Once vetted, NGOs can manage profiles, garner donor feedback, and provide timely donation updates. As the system's overseer, the Super Admin maintains a holistic dashboard to manage NGO profiles, verify documents, monitor donor transactions, and facilitate user modifications. This pioneering system endeavors to revolutionize philanthropy by fostering transparency and efficiency in the donation process, ultimately bolstering the success of charitable endeavors.

PURPOSE

The NGO and Donor System is designed with a core focus on establishing a seamless and transparent platform within the realm of philanthropy. With a user-friendly interface at its forefront, the system aims to streamline the donation process, catering to individuals eager to contribute to charitable causes. Through detailed NGO analysis reports and customizable filters, donors can make well-informed decisions tailored to their preferences. Meanwhile, NGOs benefit from a secure and credible environment, undergoing a rigorous registration process and receiving constructive feedback from donors, thus amplifying their visibility and impact. Central to the system's mission is the cultivation of trust and accountability within the philanthropic sphere. Real-time donation

tracking and updates empower donors to witness the tangible effects of their contributions, fostering a deeper sense of fulfillment and engagement. Ultimately, the NGO and Donor System endeavors to foster collaboration between donors and NGOs, advancing the collective pursuit of positive social change.

OBJECTIVES

a. The primary objective of the NGO and Donor System is to bring transparency to the philanthropic sector.
b. The project seeks to streamline interactions between donors and NGOs by creating a centralized platform
c. The project aims to expedite the document verification process for NGOs.
d. To provide donors with a tangible sense of impact, the system enables real-time tracking of donations.

2. LITERATURE SURVEY

In the paper titled "" by Yashwanth Kumar G N and Supreetha M, the authors explore the potential of blockchain technology to address safety concerns prevalent in both personal and public enterprises. Blockchain, known for its transparency and security features, is gaining traction in the charity sector. The lack of clarity in donation transactions has led to distrust among donors, as they cannot verify if their contributions are being utilized as intended. To address this issue, the authors propose a blockchain-based system for tracking donations, leveraging the SHA algorithm to ensure transparency and accountability. Unlike traditional donation systems where donors contribute to various organizations, this proposed system allows for direct donation tracking, thereby enhancing transparency in transactions. Furthermore, the paper suggests extending blockchain technology to facilitate organ donation tracking. This system aims to efficiently track organs donated by individuals and match them with appropriate recipients. To evaluate the effectiveness of this method, the authors plan to conduct polls among registered users, aiming to raise awareness and gather feedback on organ donation issues. Ultimately, the objective of this approach is to develop a secure and transparent web application that ensures accountability in donation transactions and organ allocation. By integrating blockchain technology, the authors aim to restore trust in charitable organizations and streamline the organ donation process, contributing to the greater good of society. [1]

In the paper titled "Donor Analytics and Data Platform for Indian NGOs: A Digitization Approach" by Saurabha Joglekar and Savita Sangam, the authors address the diverse landscape of non-profit and non-governmental organizations (NGOs) in India, ranging from large-scale entities to grassroots organizations with limited resources and outreach. Despite their differences, all NGOs share a common reliance on financial donations from supporters and well-wishers. The project introduces an open-source data platform tailored specifically for grassroots NGOs, aiming to facilitate their transition towards digitalization. This platform serves as a centralized repository for donation information, enabling NGOs to accurately track and categorize contributions. By harnessing this data, NGOs can make more informed decisions in the future. Moreover, the project offers a donor analytics solution designed to empower donors with insights into their contribution patterns. This solution includes a Management Information System (MIS) data dump and an exploratory data analysis dashboard focused on donor and donation metrics. Additionally, the project employs advanced techniques such

as the RFM Model for segmentation and the K-Means technique for clustering donors, resulting in the classification of donors into five distinct categories: Loyal Donors, Big Donors, At-Risk Donors, Best Donors, and Lost Donors. Overall, this research initiative seeks to bridge the digital gap for grassroots NGOs by providing them with accessible tools for donation management and analytics. By leveraging data-driven insights, NGOs can optimize their fundraising strategies and enhance their impact on social causes, thereby fostering a more sustainable and efficient philanthropic ecosystem in India. [2]

In the paper titled "NGO CONNECT: Technology for Non-Profit Organization Management" authored by Akanksha A Pai and Ramakanth Kumar P, it emphasizes the independent operation of non-governmental organizations (NGOs) and the crucial role of transparency in enhancing donor confidence and organizational legitimacy. To address the challenge of managing donations and resources, the paper proposes a comprehensive system aimed at facilitating a seamless process from donor contributions to delivery at NGOs. This system aims to bridge the gap between donors, volunteers, and NGOs by offering a hassle-free and reliable platform. NGOs can register as needed and specify their requirements, while donors can easily donate resources knowing they will be efficiently delivered to the nearest NGO. Additionally, the system provides a transparent overview of donors and their donated goods categories, ensuring accountability and effective resource allocation. Moreover, the integration of machine learning facilitates volunteer-to-NGO matching, enhancing efficiency in resource utilization. Furthermore, an AI-powered voice chatbot enhances accessibility and user experience. Overall, the project endeavors to establish a reliable and user-friendly method for the donation and reception of goods by NGOs, ultimately enhancing their operational efficiency and social impact. [3]

3. PROPOSED SYSTEM

The Online Donation System is poised to transform and optimize organ donation procedures with its advanced technological platform. Emphasizing donor information security, the system employs state-of-the-art encryption and access controls to safeguard sensitive data. Its sophisticated algorithms enhance donor-recipient matching, increasing efficiency and success rates in organ transplants. Automated notifications expedite communication, ensuring prompt alerts for matched recipients and facilitating timely coordination. A notable feature is its multi-hospital connectivity, promoting seamless collaboration among healthcare institutions and enabling centralized information exchange. The donor-friendly interface ensures accuracy and accessibility of crucial information, fostering transparency and trust in the donation process. Additionally, the system aims to streamline administrative tasks, enhance public awareness, and uphold legal and ethical standards, establishing a robust and ethical organ donation ecosystem. Ultimately, it seeks to significantly improve healthcare coordination and advance the success of organ transplantation efforts.

FLOW CHART

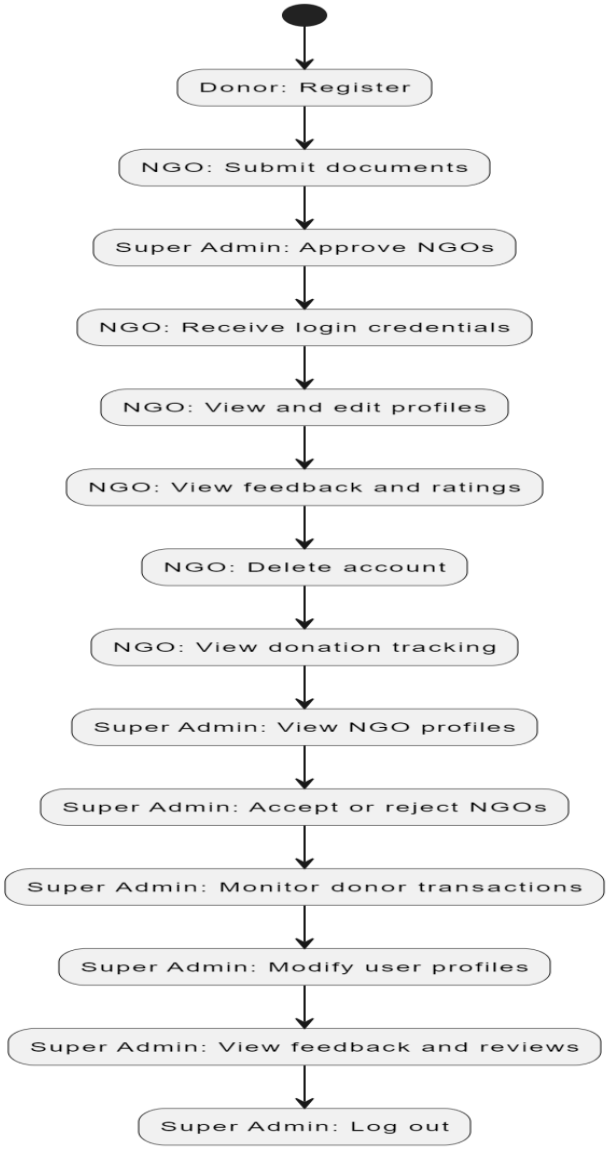

Figure 1 : Flow Chart

IMPLEMENTATION

The System development will utilize the CodeIgniter framework for backend operations, leveraging its efficiency in web application development. Secure database management, incorporating encryption for data protection, will maintain the confidentiality of donor and recipient information. Advanced matching algorithms for compatibility assessments will seamlessly integrate into the CodeIgniter backend. A user-centric web interface will be crafted using Bootstrap technology, ensuring responsiveness and visual appeal. Donors can easily register, login, and express donation intent, applying filters for NGO searches, accessing analysis reports, providing feedback and ratings, and tracking donations through NGO updates. NGOs will undergo rigorous registration, with document submission for Super Admin verification. Upon approval, NGOs will receive login credentials to

manage profiles, view donor feedback, and track donations. The Super Admin, utilizing CodeIgniter, will oversee NGO profiles, document verification, donor transactions, user modifications, and feedback reviews through a comprehensive dashboard. The system will adhere to software development best practices, ensuring scalability, reliability, and compliance with legal and ethical standards. Continuous testing and iterative development will refine and optimize functionality.

SYSTEM ARCHITECTURE

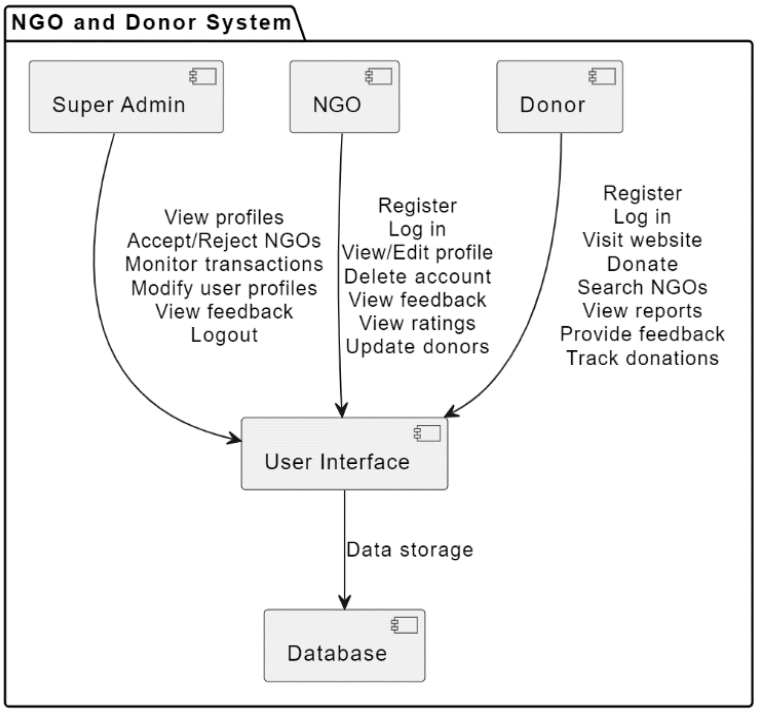

Figure 2 : System Architecture

ADVANTAGES

- Implementation of robust encryption and access controls ensures the confidentiality and integrity of donor information, addressing privacy concerns and building trust among donors.
- The project seeks to streamline interactions between donors and NGOs by creating a centralized platform. Through user-friendly interfaces, donors can easily discover, evaluate, and contribute to NGOs aligned with their values, while NGOs can efficiently showcase their work and engage with potential supporters.
- Establishing and maintaining credibility is crucial for NGOs. The system ensures a meticulous registration process, including document submission and Super Admin approval, to enhance the credibility of participating NGOs.
- The project aims to expedite the document verification process for NGOs.

International Journal of Advanced Technology in Engineering and Science
Vol. No. 12, Issue No. 04, April 2024
www.ijates.com
ijates
ISSN 2348 - 7550

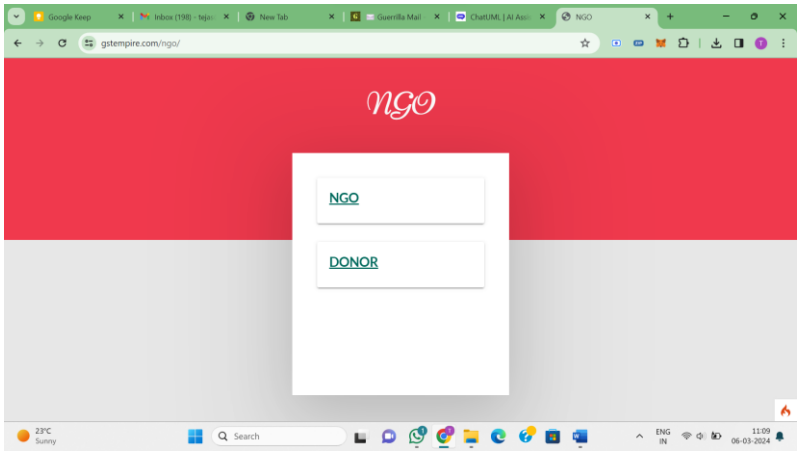

Figure 3:Homepage

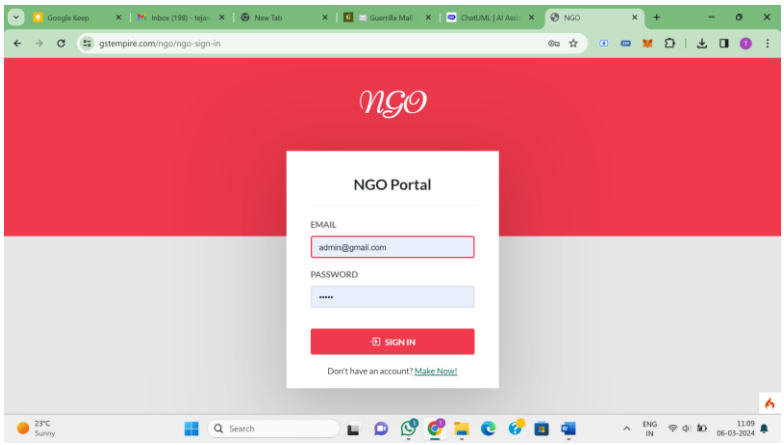

Figure 4 : NGO Login

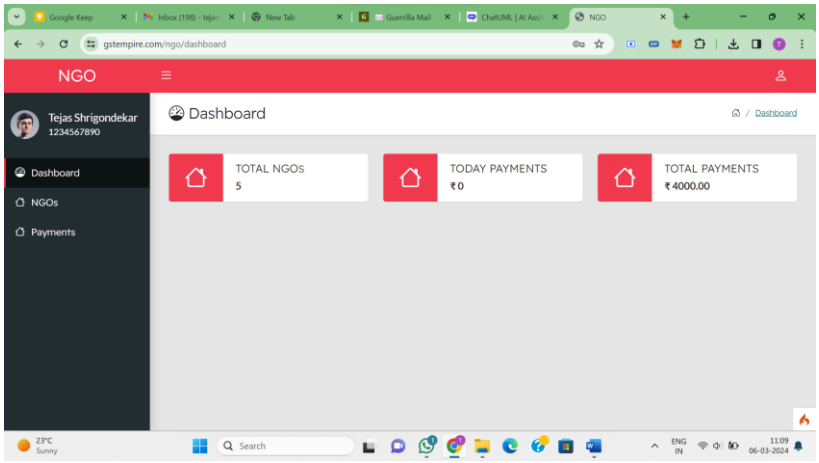

Figure 5: NGO Dashboard

International Journal of Advanced Technology in Engineering and Science
Vol. No. 12, Issue No. 04, April 2024
www.ijates.com
ijates
ISSN 2348 - 7550

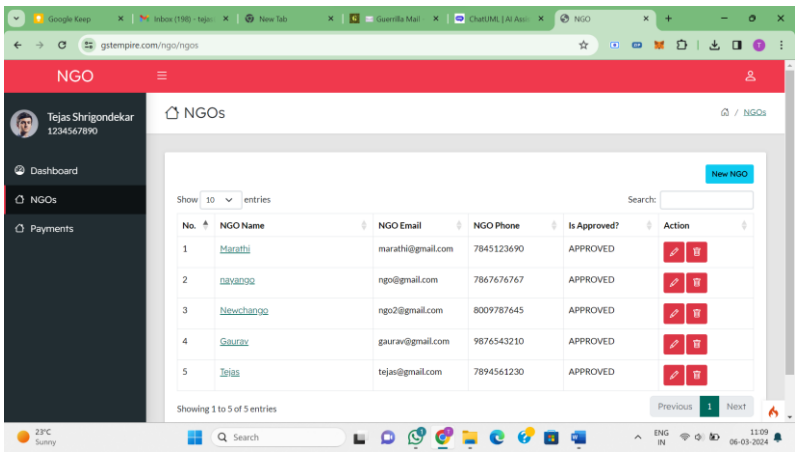

Figure 6: NGO List

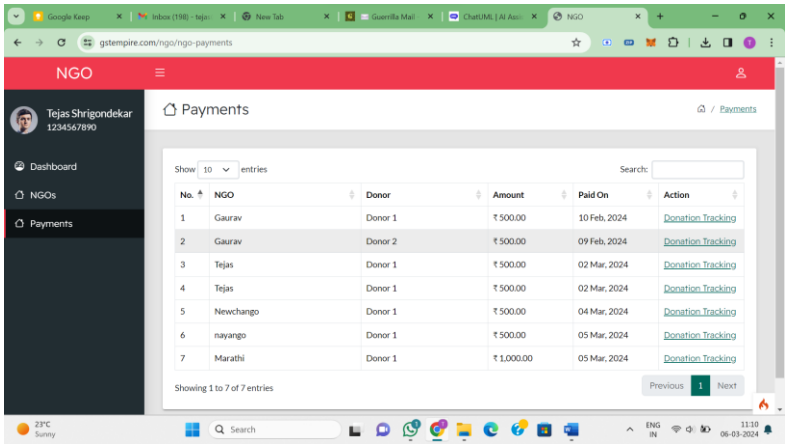

Figure 7: Payments History

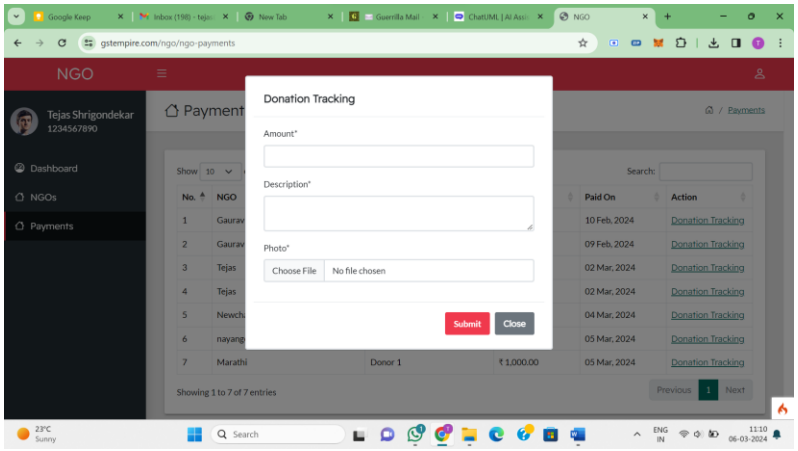

Figure 8 : Donation Tracking

International Journal of Advanced Technology in Engineering and Science
Vol. No. 12, Issue No. 04, April 2024
www.ijates.com
ijates
ISSN 2348 - 7550

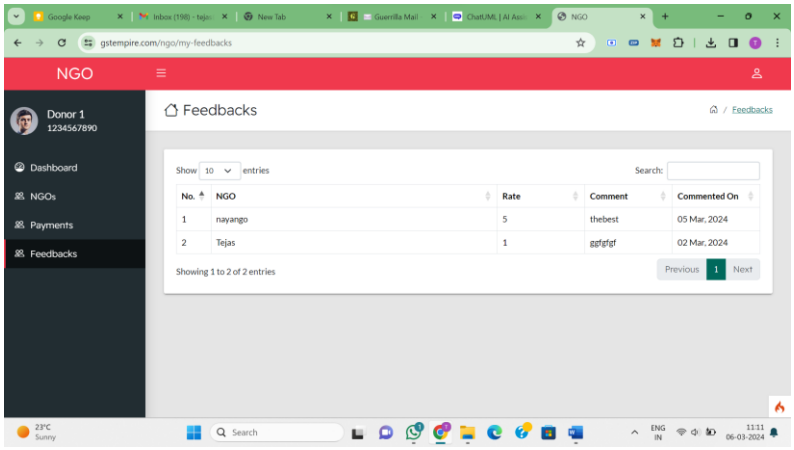

Figure 9 : Feedbacks

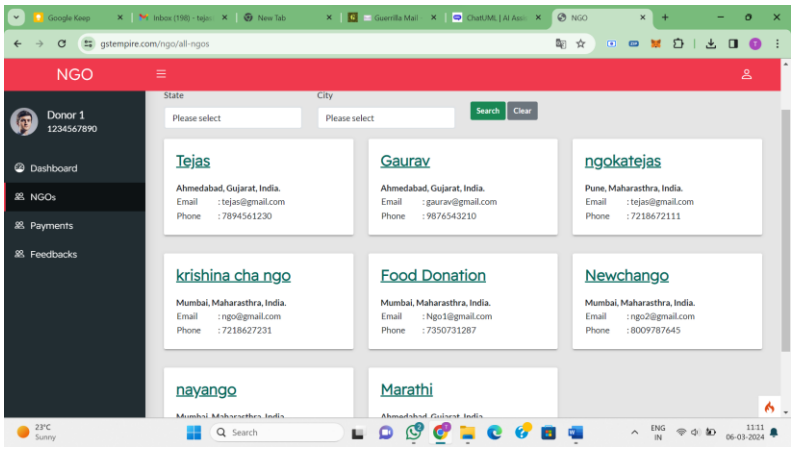

Figure 10: NGO Information

CONCLUSION

The NGO and Donor System stands as a transformative solution, reshaping philanthropy with its centralized, transparent, and user-centric approach. By addressing traditional challenges and offering informed, accountable experiences to donors and NGOs alike, it fosters collaboration and positive social change. With transparency, accountability, and efficiency at its core, this system marks a pivotal shift in philanthropic dynamics, heralding a future of impactful and collaborative endeavors for the betterment of society.

REFERENCES

[1] Y. K. G N and S. M, "Smart NGO Tracking System Using Blockchain Technology," 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon), Mysuru, India, 2022, pp. 1-6, doi: 10.1109/MysuruCon55714.2022.9972465.
Keywords: {Receivers;Organizations;Blockchains;Safety;Recording;Planning},

[2] S. Joglekar and S. Sangam, "Donor Analytics and Data Platform for Indian NGOs: A Digitization Approach," 2022 5th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2022, pp. 154-158, doi:10.1109/ICAST55766.2022.10039631. keywords:{Dataanalysis;Tracking;Sociology;Organizations;Datamodels;Statistics;Portals;Cluster;Donar;MVC},

[3] A. A. Pai, R. Kumar P, S. Thomas and P. D, "NGO CONNECT: Technology for Non-Profit Organisation Management," 2023 7th International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS), Bangalore, India, 2023, pp. 1-6, doi:10.1109/CSITSS60515.2023.10334076.