

Utkarsh: Application to Connect Donors and NGO

¹Rushabh Yeole, ²Pratham Rathod, ³Aarya Shukl, ⁴Zainab Rangwala, ⁵Vandana Soni

¹Shah And Anchor Kutchhi Engineering College, India, ²Shah And Anchor Kutchhi Engineering College, India,

³Shah And Anchor Kutchhi Engineering College, India, ⁴Shah And Anchor Kutchhi Engineering College, India,

⁵Shah And Anchor Kutchhi Engineering College, India

Abstract— As technology advances, so does our social dynamic. It is easier to seamlessly collaborate around the world and gain accurate information with faster communication. While getting in touch with an NGO via email or call is possible, it is time-consuming and requires research. Even though information regarding NGOs is available on the internet, users are incognizant of such organizations around them. At times users refrain from donating to organizations due to unsurety of their legitimacy or simply because it causes them the inconvenience of going out of their way, which leads to wastage of resources that could otherwise be more smartly utilized.

Given a platform solely dedicated to the betterment of NGOs, better service delivery, increased transparency, and growth in donors and funds can be achieved. Doorstep retrieval of donations, exposure to legitimate organizations, and a quick, hassle-free process of online payment of the desired amount all of which can be done at the touch of a fingertip with the ease of being seated at home or between a quick break at work with the Utkarsh app.

Index Terms—Book pickup, Donate, Fundraising, NGO, Utkarsh, Volunteers matching.

Introduction

A **non-governmental organization (NGO)** is an independent entity separate from the government, often nonprofit and engaged in humanitarian or social work, including member-based clubs and associations. Surveys reveal that NGOs enjoy significant public trust, serving as valuable representatives of society's interests. Nevertheless, some NGOs may also act as corporate lobbying groups, exemplified by the World Economic Forum. Introducing Utkarsh: Where Generosity Finds Purpose

Welcome to Utkarsh, a platform that empowers you to make a meaningful difference in the world. Our app is more than just a way to donate—it's a gateway to transforming lives. By seamlessly connecting donors, volunteers, and causes, Utkarsh is redefining the way we give back.

Keeping kindness above all, Utkarsh simplifies the act of giving. From donating clothes, food, and toys to contributing financially, our user-friendly interface makes generosity accessible to all. But it doesn't stop there; our app invites you to roll up your sleeves and engage with local communities through volunteering opportunities.

Whether you're passionate about supporting a cause or raising funds for a good cause, Utkarsh has you covered. Collaborate with like-minded individuals, turn compassion into action, and witness the collective impact of people coming together.

Utkarsh—because every act of kindness is a catalyst for change.

Utkarsh provides a platform for local communication, action, and resource allocation in the absence of preexisting local organizations. It backs grassroots efforts and acknowledges and addresses the specific needs of local communities. NGOs exhibit adaptability in adapting to local circumstances and addressing the needs of local populations..

I. EXISTING WORK AND DISCUSSION

Utkarsh stands out in the realm of charitable giving and nonprofit support due to its holistic and innovative approach. Existing systems, such as online fundraising platforms, crowdfunding platforms, and volunteer matching platforms, serve specific purposes but lack the comprehensive nature of Utkarsh.

Resource hubs, government initiatives, and local

community-based efforts provide valuable information and resources but often within limited geographic scopes. Corporate CSR platforms and NGO-specific software address specific organizational needs but may not foster the broader community engagement that Utkarsh achieves.

Social media campaigns and traditional fundraising methods persist, but they may not harness the full potential of digital technology and online connectivity as effectively as Utkarsh. Our application emerges as a transformative platform that combines donation management, volunteer engagement, resource sharing, and community-building into one integrated ecosystem. By bridging the gap between donors and NGOs, Utkarsh redefines the landscape of philanthropy, offering a dynamic and inclusive space for individuals and organizations to come together for social impact. Its multifaceted approach empowers users to not only contribute financially but also engage actively in local communities, thereby fulfilling its mission of making every act of kindness a catalyst for change.

II. TECHNOLOGY STACK AND PLATFORMS USED

A. Database Comparison

Firebase offers advantages over MySQL in certain scenarios due to its specific features and capabilities. One compelling aspect is Firebase's real-time synchronization, which makes it a preferred choice for applications requiring live updates and seamless collaboration. In Firebase, data changes are instantly propagated to all connected clients, ensuring a synchronized and dynamic user experience.

Firebase's scalability features are another key advantage. It effortlessly handles automatic scaling, accommodating an increasing number of users and data without requiring extensive manual adjustments.

Additionally, Firebase is known for its ease of use, making it accessible to developers at various skill levels. Its straightforward setup and web-based console simplify database management tasks, allowing developers to focus more on app development and less on database administration.

B. Platform Comparison

We developed a mobile app over a web platform due to the widespread use of smartphones,

ensuring accessibility and convenience for a broader user base. Mobile apps provide unique capabilities like push notifications and geolocation services, enhancing the user experience with real-time updates and location-based volunteering opportunities. The application choice aligns with its global reach and inclusivity goals by offering versatility in language localization and catering to users worldwide. While web applications have their merits, Utkarsh leverages mobile technology's strengths to create a user-friendly, feature-rich platform for philanthropy and social impact, accessible through smartphones anytime, anywhere.

C. Payment Gateway

Razorpay, as a payment gateway, offers businesses a host of valuable benefits. Its user-friendly integration options and versatile API support simplify the process of adding payment processing capabilities to websites and mobile apps. With a wide range of payment methods, including credit cards, debit cards, net banking, and digital wallets, Razorpay ensures that customers can make payments using their preferred options, enhancing convenience and reducing cart abandonment rates. Overall, Razorpay's robust features, coupled with responsive customer support, make it a valuable asset for businesses seeking to streamline payment processes and improve the customer payment experience.

D. Software Requirements

In our project, we employed Flutter as our primary framework for application development. Flutter is renowned for its ability to create cross-platform apps with a single codebase, ensuring consistency across different devices and operating systems. For our development environment, we chose Android Studio as our integrated development environment (IDE). Android Studio is a widely recognized and powerful tool for building Android applications, offering a range of features and tools that streamline the development process. This combination of Flutter and Android Studio allowed us to efficiently create a robust and versatile mobile app that can reach a broad audience across various platforms.asset for businesses seeking to streamline payment processes and improve the customer payment experience.

III. SYSTEM METHODOLOGY

The NGO Support Software Suite comprises two distinct applications: the User App and the Admin App. The User App is designed with a focus on five key modules, each dedicated to facilitating efficient donation, volunteer matching systems, resource hub, Fund raising and book pickup for the NGO. In parallel, the Admin App incorporates robust capabilities that empower administrators to oversee pivotal tasks such as post approvals, volunteer assessments, and the continuous updating of critical statistics.

A. Resource Hub

Within the Utkarsh platform, a comprehensive resource hub has been established to serve as a central repository of valuable information. This resource hub offers a comprehensive overview of all registered NGOs, furnishing a platform for users to access detailed information about each organization's objectives, projects, and impact. Moreover, the resource hub functions as an essential conduit for Corporate Social Responsibility (CSR) fundings, offering transparent insights into the utilization of funds and the outcomes achieved through these contributions.

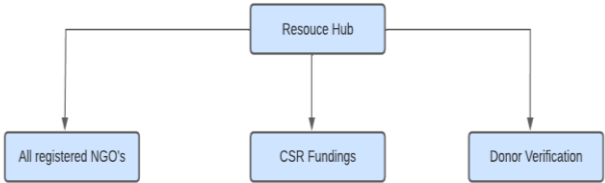


Fig. 1 Resource Hub Flowchart

B. Book A Pickup

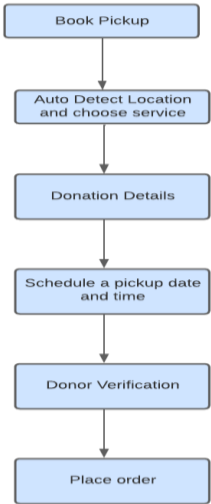


Fig. 2 Book A Pickup Flowchart

The "Book a Pickup" flowchart initiates by clicking the respective option. Upon activation, it automatically identifies the user's location using the 'Auto Detect Location'(ADL). Subsequently, the process prompts for specific donation details.

Afterward, it inquires about the preferred pickup time and date. Finally, amalgamating all information, the system proceeds to place the pickup order, ensuring a streamlined and efficient donation process.

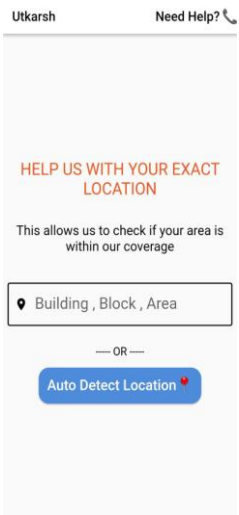


Fig. 2(a) ADL

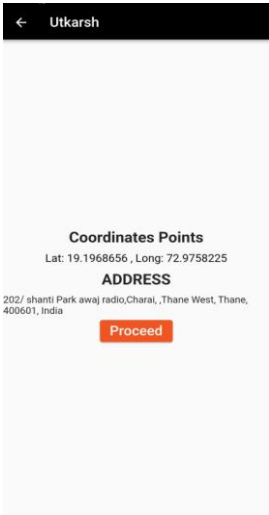


Fig. 2(b) Address Detected

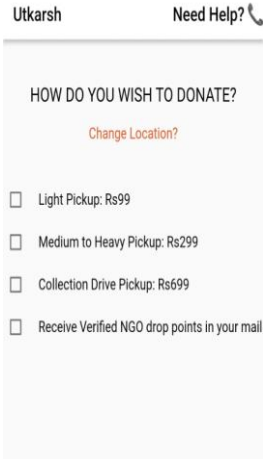


Fig. 2(c) Charges

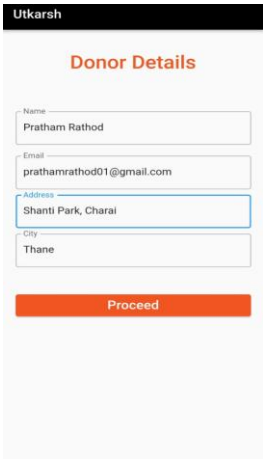


Fig. 2(d) Donor details



Fig. 2(e) Pickup Confirmed

C. Donating Through Money

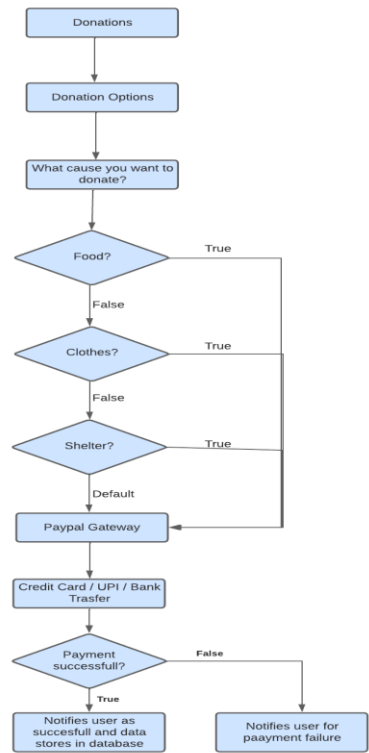


Fig. 3 Donating Through Money Flowchart

One-time donations play a crucial role in supporting NGOs. The app will offer a seamless donation process, allowing donors to contribute to various causes they are passionate about. Users

can easily choose the amount they wish to donate, select the project or initiative they want to support, and make secure payments.



Fig. 3(a) Requirements Page

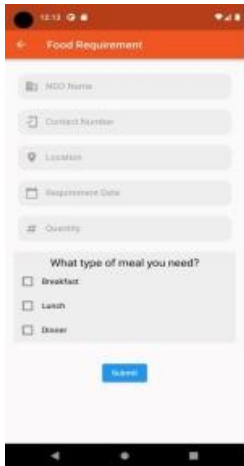


Fig. 3(b) Food Requirement

D. Volunteer Matching

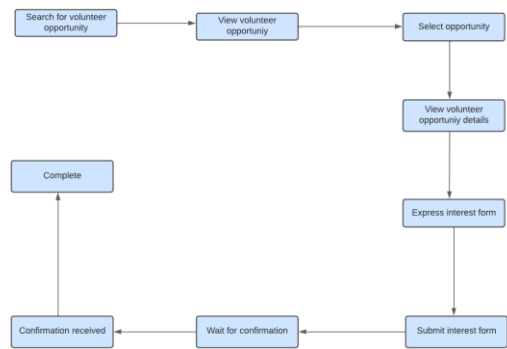


Fig. 4 Volunteer Matching Flowchart

The volunteer matching flowchart outlines the sequential process within the Utkarsh app. Users begin by searching for volunteer opportunities, view and select specific opportunities, and express interest. They then submit an interest form and await confirmation. Upon receiving confirmation,

users and NGOs engage to finalize details. After participating, the engagement is marked as complete, concluding the flowchart. This illustration showcases the step-by-step journey users undertake when seeking and participating in volunteer opportunities via the Utkarsh app.

E. Fund Raising

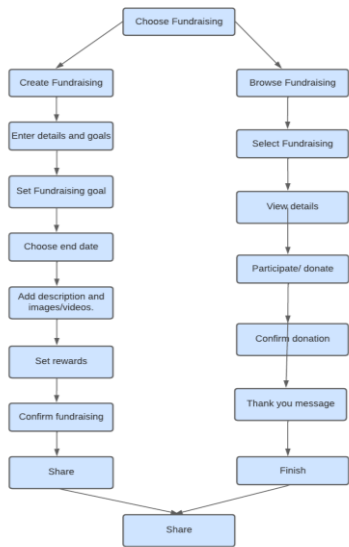


Fig. 5 FundRaising Flowchart

The provided flowchart outlines the sequential process of implementing the fundraising feature in the app. Users begin by selecting either campaign creation or browsing. When creating, they input campaign details, goals, and end dates. Adding descriptions, multimedia, and rewards follows. Upon confirmation, campaigns are activated and shareable. Browsing enables users to view active campaigns, selecting one to access its detailed

information. Participating involves donating through secure mechanisms, with users receiving confirmation and thank-you messages. The flowchart encapsulates the entire fundraising journey, demonstrating how user interactions, app functionalities, and data storage intricately merge to create a seamless and engaging fundraising experience.

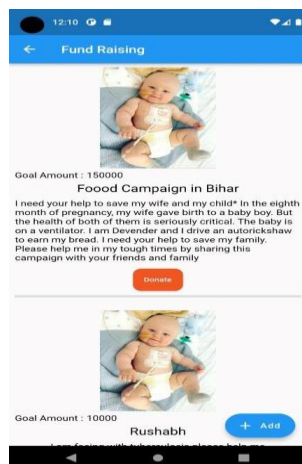


Fig. 5(a) Donating Money

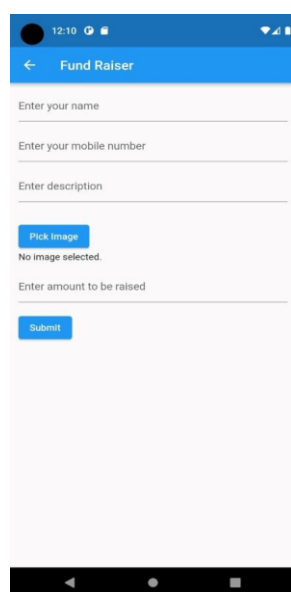


Fig. 5(b) Fund Raising page

IV. APPLICATIONS SCREEN SHOT



Fig. 6 Login/Sign Up Page



Fig. 7 Home Page

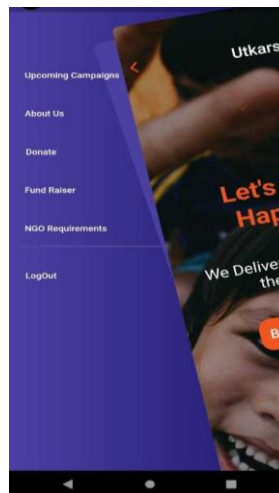


Fig. 8 Features



Fig. 9 Upcoming Campaigns



Fig. 10 Working Module

V. FUTURE SCOPE

In the future, the app could expand its geographical footprint, extend multilingual support, and integrate various donation channels, including cryptocurrency. Additionally, empowering NGOs and individuals to create and manage fundraising campaigns could catalyze more community-driven initiatives.

Real-time communication features could foster trust and transparency between donors and NGOs, while AI-driven analytics could provide valuable insights. The resource hub might evolve into a comprehensive repository of knowledge and guidance.

Mobile payment integration, gamification, and impact measurement tools could enhance user

engagement, allowing donors to witness the tangible results of their contributions. Strategic partnerships with corporate entities could amplify the app's reach and resources.

Security, privacy, and accessibility will remain paramount considerations, ensuring the safety and inclusivity of all users. The app's potential to nurture a vibrant online community dedicated to social change adds a powerful dimension to its future.

The Utkarsh app is poised for a promising future. Its evolution promises to be a catalyst for social transformation, reinforcing the notion that generosity finds its true purpose when harnessed through technology and compassion. This paper serves as a roadmap to guide its journey towards greater impact and relevance.

CONCLUSION

The study paper introduces and investigates the ground-breaking Utkarsh NGO App, which was created to eliminate barriers between funders, volunteers, and NGOs. The report emphasizes how crucial technology is becoming in promoting social change and expediting humanitarian endeavors. While many websites and apps assist those in need, our effort stands out as a user-friendly, toll-free, and client- and neighbor-friendly tool. The Utkarsh app provides a user-friendly platform that makes it easier to give, whether it's through fundraising, material donations, monetary gifts, or volunteer matching

REFERENCES

- [1] Annika Tierneya Ramona Boodoosinghb, Challenges to NGOs' ability to bid for funding due to the repatriation of volunteers: The case of Samoa, December 2020.
- [2] Sonawat, Reeta and S. S. Sikh, A Study on NGO Services for Children in Mumbai, India., Jurnal Ilmu Komunikasi 4, 2013
- [3] Yiqi Li a,* , Jieun Shin b , Jingyi Sun a , Hye Min Kim a , Yan Qu c , Aimei Yang a, Organizational sensemaking in tough times: The ecology of NGOs' COVID-19 issue discourse communities on social media, September 2021.
- [4] Jai Hind Vishwakarma, Dr. Sonia Sthapak, A review paper on the role of NGO's in educational development, September 2017.
- [5] M. Goel, A. Agarwal, N. Chandwani and T. Dixit, "Building an application framework to connect NGOs and Volunteers," 2021 International Conference on Innovative Practices in Technology and Management (ICIPTM), Noida, India, 2021, pp. 1-5, doi: 10.1109/ICIPTM52218.2021.9388342.
- [6] Cynthia Matuszek, Brian Mayton, Roberto Aimi, Marc Peter Deisenroth, Liefeng Bo, Robert Chu, Mike Kung, Louis LeGrand, Joshua R. Smith, Dieter Fox, Gambit: an autonomous chess-playing robotic system, 2011.
- [7] Ha, Yan. (2015). Study of Online activities of NGOs and Donation Application. Journal of the Korea Society of Computer and Information. 20. 181-185. 10.9708/jksci.2015.20.2.181.
- [8] "NGO APPLICATION ", International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.8, Issue 11, page no.c39-c44, November-2021, Available :<http://www.jetir.org/papers/JETIR2111207.pdf>
- [9] Mikołajczak, P., Bajak, P. Does NGOs' Commercialization Affect Volunteer Work? The Crowding out or Crowding in Effect. Public Organiz Rev 21, 103–118 (2021). <https://doi.org/10.1007/s11115-020-00478-1>