

Feasible Solution to Manage Donations Intended for Community Service Responsibility (CSR) Projects

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Abstract - The motive of this mobile application is to donate money and funds to trusted CSR projects. Searching for a trusted CSR project is the main problem that decreases the interest of the donors and prevents people from making donations. So, this application will help to solve the problem by including a list of trusted CSR projects which are admin-approved. Also, the application contains separate user profiles for CSR projects and donors. There is a function for counting how much funds the CSR project takes, and how many donations a single donor donates since he/she has registered to the application. One of the main features of this application is that donors can donate any amount of rupees ranging from Rs.1 to a maximum at the donor's discretion. In addition, the donor can choose any CSR project of his/her desire and can maintain a separate private profile. This research intends to mention how helpful this application is for those who are willing to donate, and the methodology uses quantitative and qualitative-based survey, experiments and interviews. The goal of this research is to mention that it is a platform that people can help each other within a minute's time and build up an easier process than a conventional donation.

Keywords: *donor, CSR projects, platform, funds, fundraising*

I. INTRODUCTION

Community Service Responsibility (CSR) Project refers to an unpaid task or a work which conducted by a group of people or a single person toward helping their community without any kind of Commutation. Difficulties of communities expect to cover by these projects and then CSR projects occur to find voluntary groups or individual volunteers to be participants of these projects. Community service, a well-known term in community programming, has its definition: "the voluntary action of an individual or group of

individuals without pay." For example, donate funds to schools for building up their education, helping patients to survive their lives by contributing to finding the money needs to cure diseases, and fulfill the day-to-day needs of kind of orphanages like children's homes, elder homes, etc. The overall giving grew as a percentage of approximately 4.1%, online giving increased by 12.1% over the past year. In addition, 45% of donors worldwide are enrolled in at least any monthly giving program.

These kinds of donations help all demographics without considering gender, age, or income but find a proper trustworthy platform is the hardest thing in this hierarchy. Therefore, the interest in donating is unintentionally missed by donors, and the need of finding a trustworthy platform is arising for everyone willing to donate. Any mobile application or a web-based site can take responsibility for the track of donation or help donors to ensure where their funds were transferred. This web-based application can support such projects for collecting funds from donors and distribute them among poor children, orphans, or any related trusted CSR projects. CSR project's president represents the person who needs help and once the desired fund is received, it is given to that person or institute who needs the help. One of the main features of this application is that donors can donate any amount of rupees from Rs.1 to the maximum at the donor's discretion. In addition, a donor can choose any CSR project on his desire and can maintain a separate private profile. Also, donors are able to use this web application for paying platforms, and then the rest of the money can be donated for a CSR project. Another profile is used by a CSR project to check how much donations does the project receive and these kinds of features are used to increase the interest of

donors to donate. The advantage of this process is a small amount of money can be donated and that fund has huge value to convert results success for the CSR project. The Application approves a CSR project only after doing some survey of that project and confirms it as a trustworthy project. The team of that CSR project can continue it through this site. Therefore, donors can use this application as a trustworthy platform for their donations. The main objective of this is to invent a more effective method for online donations and research on technologies that can be used for this application as well as a website. Eventually, researching to prove that the online donation method is effective for all donors and CSR projects.

The research aims to solve problem analysis to formulate and design practical and effective software solutions for the problems. It also focuses on the practice of checking and reviewing the system to find flaws for future development, since the system can solve research problems well. These objectives are nodes for designing software solutions to the problems discovered by this study. Objectives are to Identify the available methods that are used for managing donors and the problems come across, Pinpoint the technologies available, Layout the software solution to address research problems with available technology at present.

II. LITERATURE REVIEW

Fund Raising and Donation Application System: CSR projects are depending on funds and donations which people donate but it is a difficult task that is to tend people to donate. This research has described the funds that need to continue a business project or a business creation. They mentioned that there are many ways to get help from the people towards their project by helping in the cost and to reach more internet users they decide the best solution is to create a donation system or online fundraising system by utilizing internet technology and information technology. In addition, by using this application, users can create an account for their project and gain donors' attraction towards this project by using this application or site. This crowdfunding website consists of three major categories for the easiest of the user and social projects, creative projects, and events.

Base on this above application and site there are some issues to study by that research. The main problem that arises is how can this application or website collect funds, how to build this crowdfunding application as a useful app for all those communities who wish to use and how this application displays categories of crowdfunding. The research methodologies used for this research are as follows: Method Library (Library), the method they used to collect data is library studies by studying articles and reading, for research materials this researcher used scientific journals or other sources. The second method is observation methods and collecting data via doing observation directly in the field. The third method is the interview method and it is a method that asking a direct question from resource and take direct answers systematically. Helps donors to donate a small amount of money is one of the main aims of this research paper and can take that idea to the developing project. Also, this research paper focus to list trusted CSR project list for those who are willing to donate and that point is so important to the developing project. (Muliawati, 2019).

Educate Youth: Android app for fund donation is built to help students who need the help of donors to continue their studies. This app provides two interfaces for users to create a student account and a donor account. Students can register on an educational fund program and maintain a profile to gain donor funds through the app. In addition, the donor also maintains his profile for donating to these kinds of projects.

This is an android application and it connects two users of students and donors in the same platform and the best part of this system is that student can ask help when he/she needs at any time in anywhere. Students can send a request to the donor and then the donor can view those requests and accept it if he/she likes to donate. Also, donors from different states can donate to students in other states and that's the special thing in this application. In this application, there are two different ways of contributing to a donation. Donors can donate directly to a specific student or donate to different students to spread their donations randomly. Eventually, the special thing about this application is that only authenticated students can do with this, and here

is the point that is suitable for developing a project. Therefore, before the CSR project can gain donations, the project needs to take the approval of the admin by submitting required trusted documents. (Hovale, 2019).

Helping hand is a mobile application that is used for donating money, funds, blood, and helping to the orphanages and elders' homes. They include a list of non-profit recognized qualified non-profit organizations after searching. This point is helped to add this function to the developing project and then listing only the trusted CSR projects which were approved by the admin. Therefore, they introduce this application as a solution for this matter by adding a list of qualified nonprofit organizations in their application. In addition, they used messages, emails, notifications, and push messages by saying a new non-profit organization was added. This is also an important function for the developing project. Therefore, by adding this function to the project, donors can receive a push notification by saying the donor's new project is added. So, donors can ask questions on this organization and contribute to the donation if he interests and this application connect both non-profit organization and Donor needs to register in this system before start donating or to search a non-profit organization and the aim of this application is supply money or blood when in an emergency.

Also, there are so many details about the nonprofit organization to which donor wants to contribute. But the application uses some authorized features like they allow to view private data only for the authorized users and they keep every record of the users. So, by adding this function to the developing project, donors are able to request and receive previous records of donations. This mobile application support both android and iOS and it contains donors, admins, non-profit organizations, money, database, and patients. Another feature of this application is all orphanages and elder's homes locations are tracked so it is easy to find a nearby location. (Elapanti, 2018)

Afu is a mobile application developed by china to help people in their country and increase the interest in charity programs and make space for those who are willing to participate in those

programs. Also, this mobile application presents a solution to build trust among the people who wish to donate and help poor people in their day-to-day life. Therefore, by referring to this research paper, can take an idea on how to add trusted projects only and manage donation system. Afu application is relieved people to solve all kinds of problems in normal traditional charity donation patterns.

They find some faults in these traditional charity programs and some of those faults are lack of trust, poor information communication, poor people cannot fulfill their daily needs, transparency, charity is a not thing that people can use anywhere at any time and help those people who need support. Eventually, they build a platform as a service for poor people who can express their needs online, and then donors can find a charity program as they wish. The mobile application helps both donors and beneficiaries to express their ideas throughout the process and then supply what beneficiaries expect. In addition, the main purpose of this application is to build trust among these two parties. Therefore, admin must guide that information and confirm those charity programs are real and they are doing this process in two steps. Firstly, the audience has to trust that information and the higher trusted program can gain more donations. Secondly, it is released to the network and donors can contribute to this program. Most important thing is that after confirming this is a trusted program, the interest in donating has been doubled. Eventually, by referring to this research paper, can take an idea of this is the way of developing an application by adding trusted CSR projects only. (Ahmed, 2014).

III. METHODOLOGY

The proposed system is based on the web application to increase the portability and availability of the system and for any user to use this easily.

- Angular is used for building the front end of the application using HTML5, CSS bootstrap frameworks, and Typescript. Angular is a TypeScript-based open-source web application framework led by the Angular Team at Google and by a community of individuals and corporations. Angular is a complete rewrite from the same team that built AngularJS.

- Java is used for developing a mobile application using android studio and IDE is this android studio. Java following object-oriented programming.
- Firebase is used to build the database environment for the project. Using this database web application and mobile application connects and through any of this application can register and login through any application.

This methodology will be based on main three parties.

1. Donor
2. CSR Project(owner)
3. Admin

Admin, Donor, CSR project(owner) can use this web application and on the other side mobile application is only for the donors.

Before implementing this software, the main function is to use the same database for both mobile applications and web applications. In addition, then one donor who created his donor account by using the web application able to log in using a mobile application and the same credentials. In here to store the user credentials in a separate form, use tree-structured, and then user details do not mix. Any Donor who wants to take a report of previous records can take it easy. This research paper describes what features are added to the users for their use.

IV. ANALYSIS AND DESIGN

The mobile application is needed to be collect details of how previous donations applications and sites are going on before starting to develop. The main purpose of this is to determine the application goals and figure the issues out there after developing an application by reviewing those online donation applications and websites. Before doing this research quantitative and qualitative data are required to enlarge the quality of the application and mainly to achieve the application goals. The data can be categorized into primary data and secondary data. Therefore, the Primary data of the research identified by using techniques of gathering data and other all methods are used for gathering secondary data. Also, the project used to direct a quantitative

analysis for collecting data and to achieve all expected project goals.

A. Interviews

Simple interviews are used to collecting ideas and data on what the application is needed and can users satisfy by using the functionality of this application. Some of the interviewers have used these kinds of applications before and they mentioned errors and shortcomings in those applications and websites. In addition, interviewers who used the conventional donation method, bring up new features that they expected. As an example, they said they want user-friendly interfaces and some of the interviewers have huge credibility issues.

B. Experiments

reviewing previous applications and websites for collecting other data and check it out the errors in those applications and websites. After installing some applications there are various kinds of Charitable projects like CSR projects here. But to gain donations it doesn't need to wait until the admin approved that project as a trusted project. Furthermore, those applications do have not any function to measure how many of the donations donors did since registered. A single student is also able to make an account on behalf of them to receive donations and because of this, any kind of racketeers can create an account and funds can be smuggled.

C. Survey

the project used a simple google form by adding simple ten questions to follow the survey-based method to gather data. This google form has targeted the ideas of the people on donating through an online mobile application, whether they have an interest in donating, their experience about those online donation applications, and their idea on some features that the application was developed. This fundraising mobile application developed some features like includes a list of trusted CSR projects which admin approved, the application contains separate user profiles for CSR projects and donors.

In addition, there is a function for count how much funds the CSR project takes and how many donations a single donor donate since registered

to the application. Also to increase the interest of donation, the application adds a feature like anyone can transfer their changes after buying goods from shops/supermarkets to the favourite CSR project of the donor. The online Fundraising application contains some modern interfaces and databases and going to develop an application by using android studio and already decided to develop an android application as the result of the survey.

Table 1- Analysis Table

	Sample size	Answers	percentage
Interviews	50	48	96%
Experiments	15	15	100%
Surveys	120	100	83.3%

Source: Author

Analysis of the system is done by using a survey of a google form and share the form among the people. This is the best way to gather information to analyze the current system and 100 responses used for this survey. In addition, it helps to add special functions to the system and get rid of the errors, and the following questions are included in the questionnaire.

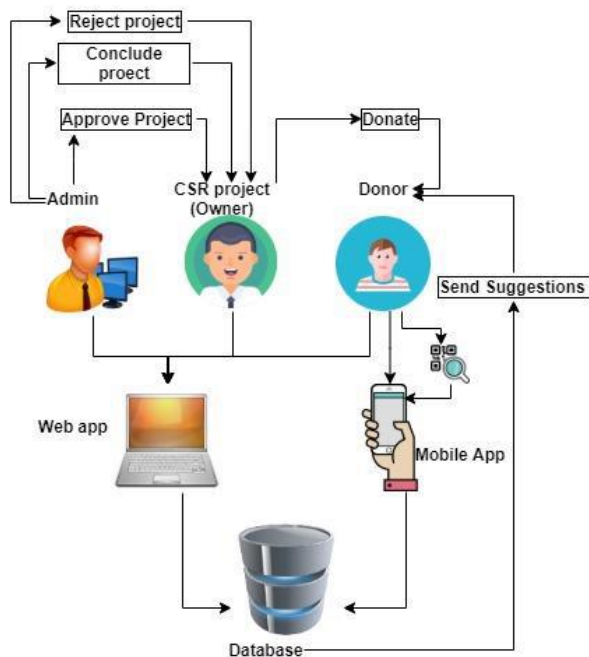


Figure 1- Methodology

Source: Author

V. IMPLEMENTATION

Both applications can send a notification when a donor's favourite CSR project is created. This process will happen as mentioned. First, the application does a back-end program to take a percentage of the categories of the CSR projects which donors donated before. As an example, since donors registered to the application, donors mostly donate CSR projects which relevant for the child. As the same donor donates to some projects relevant to educations, relevant sports, and animals.

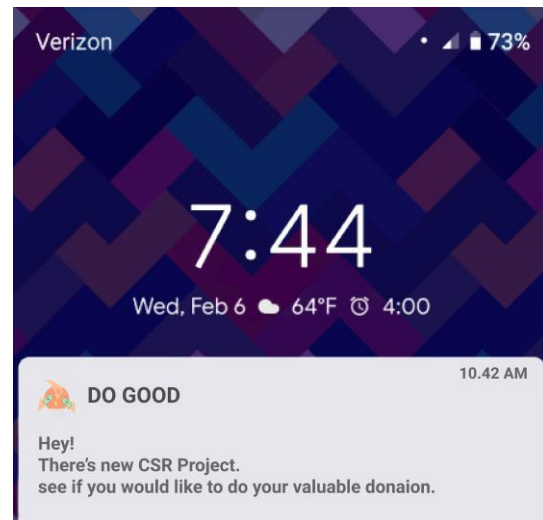


Figure 2- Notification screenshot

Source: Author

Then backend of the application takes all the previous reports of the donor and takes a report of the donor's favouritisms. After all, another CSR project(owner) creates a CSR project relevant to the children. So then immediately application sends a notification by saying there is another new CSR project relevant to your preference. As the below figure 2 donors receive a simple notification and can directly go to the relevant CSR project by clicking the notification.

Also, applications are mostly focused on the users by using user-friendly functions. Therefore, any mobile app user who has this mobile application can search directly using the search bar or there's a QR scanner for the same task. Any CSR project owner can share a QR code relevant to the CSR project in any place. As an example, if the CSR project owner takes a printout of the QR code and keeps it near to the cashier of the shop, then the user of the mobile application can scan

this QR code and browse the relevant CSR project.



Figure 3- Search bar
Source: Author

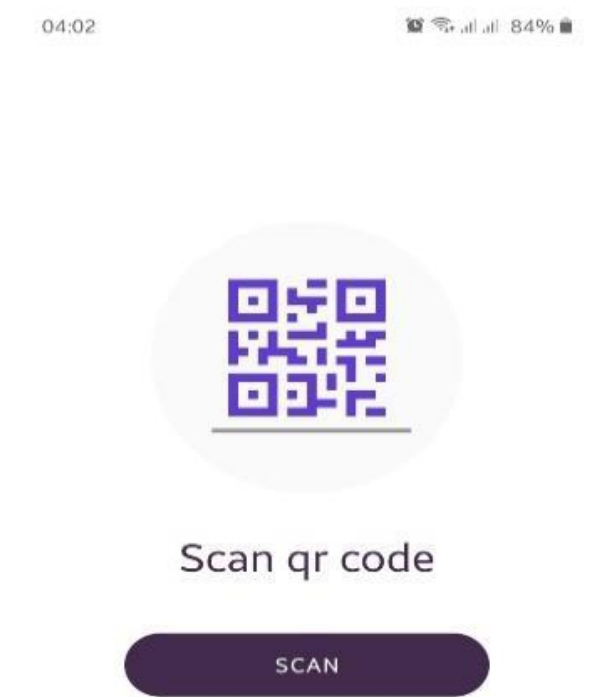


Figure 4- QR scan page
Source: Author

This QR scanning is the same as the process of the barcode reader at the supermarket. Also, this image is a kind of machine scannable picture which mostly scans using a smartphone. The process of this scanning happens as, when focusing on this image, can see there are a number of squares and dots and every single of this represent some information. Eventually, these scanners convert this into a human language which human can be understood.

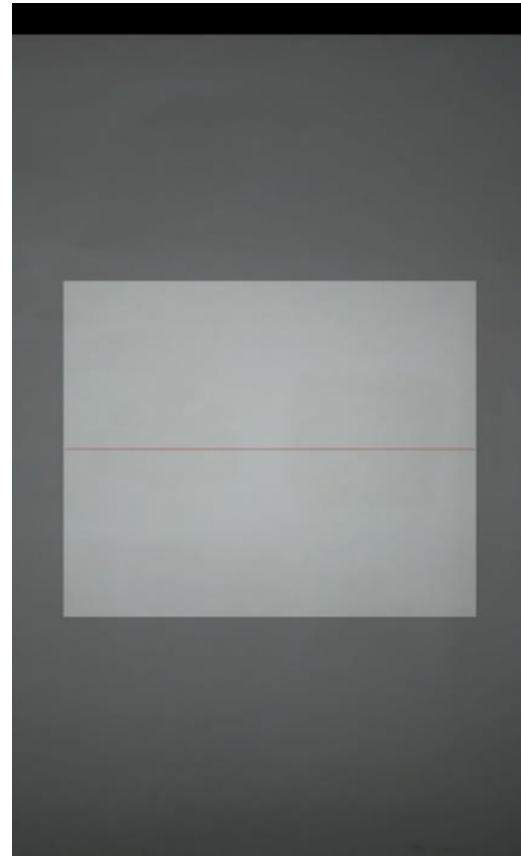


Figure 5- QR Scanner
Source: Author



Figure 6- Search result
Source: Author

To motivate the donor, these applications are added a feature for donors to take a report of

previous donations. This process happens through both web application and mobile application. Then donors receive simple PDF format documents with their previous records adding the name of the CSR projects, How much donations per each project.

VI. REVOLUTION

The main purpose of this research paper is to Manage donations by accepting only the trusted CSR projects and maintain the donor's trust. In addition, the application is able to send push notifications for each user by saying the donor's favourite category of CSR project was added. As an example by analyzing previous records, the application gathers all the information of the donor's previous donations projects, and when the same kind of project is added application sends this notification. Eventually, the donor can request a previous donation report using the application and the main aim of this feature is to motivate the donor to do more donations.

VII. CONCLUSION AND FURTHER WORKS

In the conclusion, Donors can give a break from a conventional donation because of this online mobile fundraising application. Throughout the research paper mentioned the way that how fundraising mobile application helpful for donors to find trusted CSR projects for their donations. The project develops web and mobile applications to help people who need a hand and those people who are willing to donate. User interfaces of the fundraising mobile application are done by using flutter and it is an open-source user interface software development kit used to develop android or any other OS mobile applications. Java and Angular are the languages used to code all the features and firebase used to manage the database. As further development developer tries to develop this application for iOS also. According to the questionnaires users are expecting a trusted platform to do their donations and expect to add some value to their donations by the feature of the application. Eventually, interviews and installing the same kind of donation apps help to avoid errors occurring in previous donation applications.

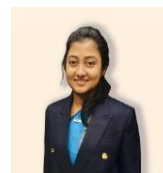
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