CharityAll - Platform for Charity

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Abstract - *People may look down on online charity, the major reason being the possibility and the history of fraudulent activities in the disguise of charity. There are a lot of organizations with an online presence but it can get challenging to recognize the authenticity of a registered organization. The CharityAll platform aims to provide a solution to such problems in a unique way in one single system. This will be a reliable interface between the donors and charity organizations. This platform will have only verified and registered charity organizations which will help donors to discover organizations supporting different types of causes and offer them the help needed without any worries. Charity Organizations will be able to request help and donors would get to see the requirements of the request and donate. Volunteering activities can be advertised by organizations to get the desired reach and help from users on the platform. It also allows donors to support the charitable causes they wish to support. The CharityAll system will offer an equal platform to all charity organizations to raise funds and get help from donors. The money distribution algorithm designed would help to distribute the funds that donors give to a particular cause among the charity organizations.*

Key Words: **Charity, Donation, Donor, Organization**, **Equitable Distribution**

1. INTRODUCTION

Charity practices are the voluntary giving of help to those in need. Charity helps people understand the deeper meaning of life, this often encourages and drives people to donate. Society benefits in multiple ways when charity takes place. In today's time, charity can be done online in multiple ways. Online charity systems are designed to provide easy access for donors to donate and for charity organizations to receive the desired help. Many organizations that work for various causes may not receive the required help due to less reach, funding, locations, etc. Online charity systems allow all kinds of charity organizations to request help and make it easier for them to get the same.

Charity can take place not only in the form of money donations but also in terms of services or fulfilling other material requirements. Organizations are registered as nonprofit organizations with the government based on the cause they are associated with or working for. CharityAll platform promotes charity among individuals and brings awareness about the needs of the organization through a web-based donation platform. Organizations that support different causes can all be brought on one platform. At different times donors may wish to support a different cause.

The organizations would be able to request volunteering services by uploading the poster, details, location, date, and links to the events. Users of the platform will be able to see all the volunteering activities taking place and can help/participate in the ones they are interested in.

To donate money the users can select the cause(s) they want to support and enter the amount they would like to donate. The distribution algorithm will distribute the donated amount among the organizations that support chosen cause(s) depending on the previous help the organizations have received.

To donate items a user wishes to, he/she just needs to fill in the details regarding the items and the cause(s) they would like to give. Organizations will be informed about the items and they can choose to receive those if required.

2. EXISTING SYSTEMS

The CharityAll platform is implemented to help and improve several processes in the charity domain. A lot of problems were faced previously which include:

➔ Donors find it difficult to find organizations near them or verified organizations online.

➔ Organizations do not receive the required funding.

➔ Charity activities do not get the amount of recognition.

➔ Specific items that organizations need they are unable to get.

➔ Donors have to search for people to give away items that they want to donate.

2.1 Visiting Organizations or searching for organizations online

Locally going around searching for charity organizations is the current way of reaching out to organizations, it is a tedious task and there might be a success in finding the organizations. Organizations available online are another option but verifying them gets very difficult and time-consuming. Only well-known organizations tend to get help every time using conventional ways.

Disadvantages:

● Visiting the organizations or researching online about organizations is a time-consuming task. It is also risky as there are many fraudulent organizations on the internet.

● Only certain organizations get the help and small or geographically distant organizations do not get any help.

2.2 Fundraiser

Organizations have to keep asking for funds via fundraising activities like charity sales, online crowdfunding, charity auctions, and collaborating with businesses. Organizations need to promote themselves over social media for which they might have to spend a lot of money. Donors willing to donate are very rarely found. Fundings are not received very frequently which results in fewer funds with the organizations.

Disadvantages:

• Fundings are very difficult to receive as many different activities have to take place.

• Some small or not-so-well-known organizations hardly receive any funding.

2.3 Advertising volunteering activities

Organizations have to use social media or word of mouth to get the volunteers for the activities/drives organized. Word of mouth might not always attract the desired crowd appropriate for the event. Some amount of money needs to be spent to advertise these activities via posters or pamphlets. Correct information regarding the event may not be completely available online.

Disadvantages:

● There are no incentives for participating in such activities hence people do not willingly engage which results in poor participation.

• There is a lack of widespread awareness about the activities therefore they do not get enough help.

2.4 Search for donors

There are various requirements of organizations in terms of items that they require for their organizations to function. Due to less funding, they are unable to purchase the items. Reaching out to donors could be done via social media, word of mouth, and advertisements but there is no surety for success.

Disadvantages:

● Reaching out to donors is a very difficult process, therefore, getting the items from donors is also a problem.

● The willingness of donors to donate to unknown organizations is very less.

2.5 Look for people in need of specific items

There are times when people have a surplus of some items and wish to donate them but are completely unaware of who to give the items to. At the same time, some organizations might require those items. But due to no knowledge or communication about the same between the two parties the items do not reach those who need them.

Disadvantages:

• Reaching out to donors is a very difficult process, therefore, getting the items from donors is also a problem.

• The willingness of donors to donate to unknown organizations is very less.

3. PROPOSED SYSTEM

The main aim of the Proposed System is to achieve the following objectives:

● To distribute the funds among various organizations in an equitable manner.

● To gap the bridge between the donors and charity organizations.

● To create and increase awareness about charity activities/campaigns among the people.

● To allow organizations to request the desired items.

● To let users, donate items of their choice to the organization they want to.

3.1 Distribution Algorithm

Users have an option to donate directly to a particular cause or they can donate the amount to the platform and then the platform can then take care of donating it to an

organization or among organizations. There may arise any of the following three cases

1. The amount to be donated is less than a set amount

   OR
   Only one organization matches the selected cause

2. Two organizations match the selected cause

3. More than two organizations match the selected cause

Algorithm will work as follows:

Steps: -

1. Ask the user to input for the funds to be donated

2. Ask the user for the cause to be supported

  2.1. IF no particular cause is selected, default to ALL causes as the selected option

  2.2. IF the amount to be donated is less than a set amount

   OR

   IF only one organization matches the selected cause

  2.2.1. Donate the full amount to an organization with the lowest funding

  2.3. ELSE IF two or more organizations match the selected cause then equitably distribute the amount.

3. Show the distributed amounts and donate the same to the organizations.
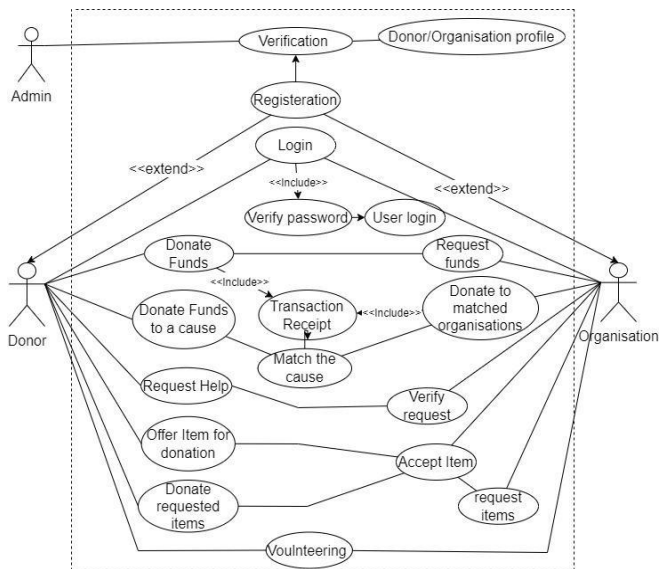
3.2 Use Case Diagram

Fig-1: Use Case Diagram

Figure 1, describes the use case diagram of the platform where the admin, donor, and organization interact with the system to donate/receive funds, services, and items.
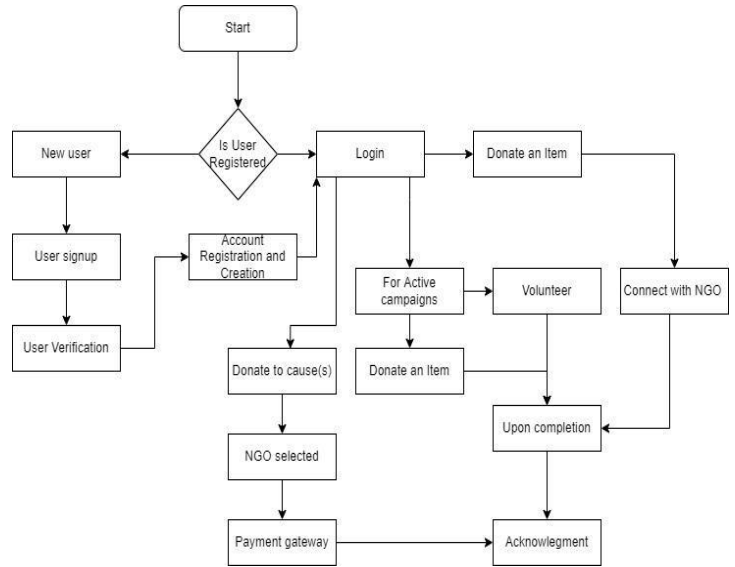
3.3. Flow Diagram

Fig-2: User flow diagram

Figure 2, shows the flow of activity of a user in the system from its registration, login and the performing various tasks to receiving the final acknowledgement.
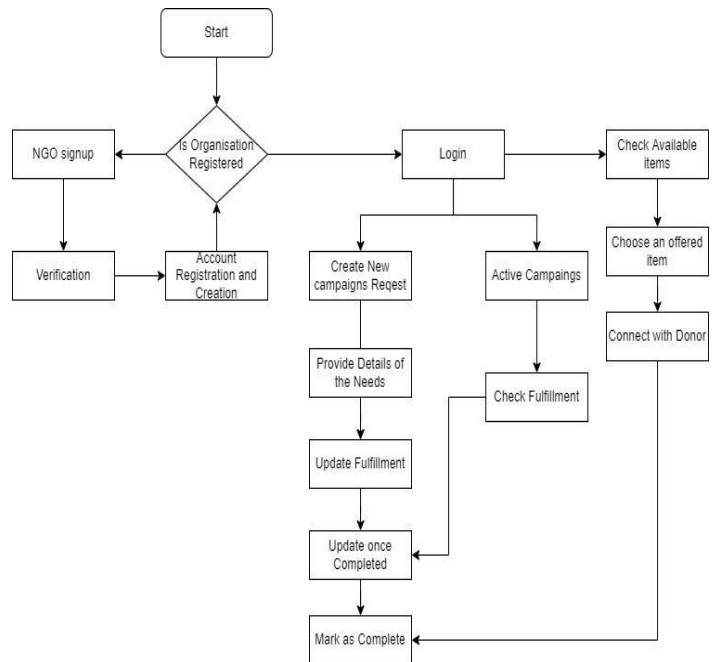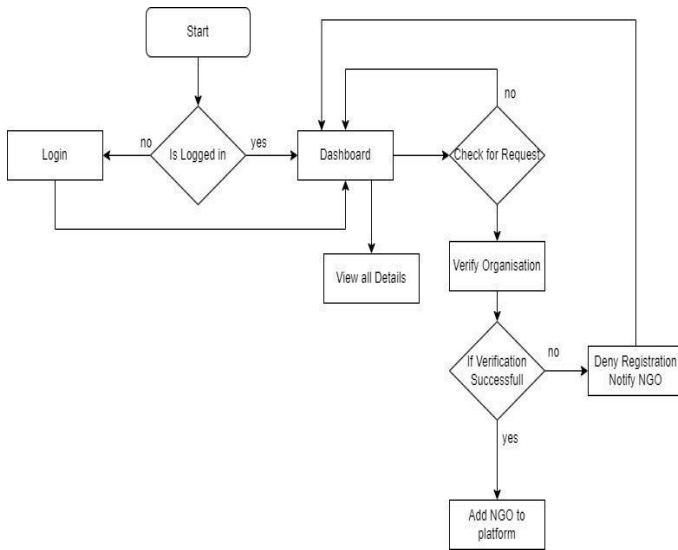

Fig-3: Organization flow diagram

Fig 3, shows the flow of activity of an organization in the system from its registration, login and requesting donations, items, services to receiving the required help.

Fig-4: Admin flow diagram

Figure 4, shows the flow of activity of an admin in the system from its login and to performing various tasks.

4. CONCLUSIONS

The motivating insight of this research is to overcome the issues faced by donors and organizations in the process of charity and to promote charity. The wide gap between the charity organizations and donors is also narrowed down, this indeed is advantageous as more and more needy people will receive the required help.

Finding verified organizations was a problem faced by donors which are overcome by our project. On our platform, the organizations are included on the platform only after verifying whether they are registered with the government or not. This platform also provides the donors a feature where they can donate items that they wish to without the organization requesting them.

Our platform helps organizations reach donors who are willing to donate or provide other kinds of help. The distribution of funds gives organizations a reason to join our platform. Every organization on this platform is given equal importance and there is a guarantee of every organization receiving some funds at some point of time from the platform.

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