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## Android Application For Food, Clothes And Books Donation And Management

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### Abstract:

Food, clothing, and education are the three most fundamental and vital items for humans. These three must be the most basic needs of humanity, which must be met as soon as possible. Although, in today's society, we see many people who cannot afford or take advantage of these fundamental necessities for survival. On the other side, we witness many rich and educated people waste a significant quantity of things such as food, clothing, and literature. Our approach provides a positive solution to this dilemma. The main goal of the application is to bring together people who have extra assets and liabilities and are eager to give back to the community people who are needy and ready to accept.

Our application allows users to contribute food, clothing, and books for free, and other users to freely collect the donations when they are needed. Our application's key feature is that it connects users who have accepted a donation with those who have put that same donation up for consideration.

**Keywords :** Online Donation, Food Donation, Clothes Donation, Books Donation, Android Application, Food waste management, Left-over food

### 1. INTRODUCTION

When mobile phones first came out, the only features they had were the ability to call, text, and save contacts, and those simple actions made our lives so much easier because we could contact and talk to our loved ones at any time. It was a tremendous accomplishment. The internet, cell phones, touch phones, 3G and 4G, and more technologies followed.

They provided mobile phones and technologies an entirely new style and boost. It made our lives so much easier that we can't imagine how much easier it made our lives.

All of these characteristics lead to a plethora of solutions to the massive difficulties that the entire globe is currently facing.

So, in order to address the issue of waste management while also meeting people's basic needs, we created an app that allows people to donate or share their excess or leftover items that are no longer useful to them but may be useful to others. We may discover many applications that are beneficial to society as technology advances in this atomic age. People use a smartphone and the internet to complete daily tasks such as shopping, paying bills, managing work, and so on in today's technological world. There is no such platform on a large scale in today's internet environment that can meet the basic essential needs of the underprivileged or those who are unable to meet their needs on their own.

Keeping this in mind, we were inspired to create a platform that facilitates the donation of food, clothing, and books. An Android app that allows users to donate or collect donations from locals at their discretion. The user is always free to give any critical items that they believe they no longer require.

Another way to look at it is that it greatly aids with food control. The majority of the items that end up in the trash can be reused or recycled. As a result, this application will have a significant impact on the management of food, clothing, and book waste.

Food waste and losses have become popular research subjects in the recent decade. This systematic review is being conducted to evaluate the extent to which research on food loss and waste is conducted, as well as the most often employed methods.

The goal of this project is to create a user-friendly Android-based mobile application that allows users to donate or collect donations from others at their discretion. Users can interact with others through this program and ask for or provide donations of food, clothing, and books. This will help raise awareness about the proper disposal of food waste.

## 2. RELATED WORK

### A. Food waste reduction application from Netherlands (NoFoodWasted)

August de Vocht, a Dutch citizen, created this programme in order to prevent food waste. This programme works in tandem with the supermarket to alert users of foods that are about to expire. According to [8,] it allows users to post grocery items that are about to expire so that others in need of food can purchase them at a discounted price and use them. It aids in the reduction of food wastage. This software has been downloaded by over 20000 individuals, and it has helped to minimise food waste in the Netherlands.

### B. The United Kingdom and Ireland have submitted a proposal to reduce food waste. (FoodCloud)

In the United Kingdom and Ireland, this application has been designated as one of the most useful food waste applications. This programme alerts supermarkets to excess food so that charitable organisations can collect it and reduce food waste. This application acts as a middleman, supplying the types of foods and coordinating pick-up for the organisations. It also gathers and preserves food so that humanitarian organisations can collect it according to their needs. According to [9], this application brings together over 1200 business hubs and 3000 nonprofit organisations to offer surplus food to the homeless

### C. Food wastage Reduction Application from Africa (Cheetah)

This programme was created by University of Twente academics in order to reduce the quantity of food wastes in Africa. Various fruits and vegetables in Africa are losing their capacity to be consumed due to bad road conditions and a lack of refrigeration. This programme was intended to collect those food items before they spoil and distribute them to Africa's malnourished population. The researchers were assisted in the creation of this application by the Dutch Ministry of Foreign Affairs. This is mostly used by farmers and food carriers.

It also assisted them in reducing the likelihood of food bribery in Africa. The public version of this application is expected to be published in May of next year [10].

### D. Indian Food Wastage Reduction Application (No Food Waste)

No Food Waste is an Indian software that allows restaurants, food booths, and parties to notify the government about surplus leftover food so that needy people can collect it. This programme collects those foods and distributes them to those who are homeless, live in slums, orphanages, or nursing homes. Users can also notify them by exhibiting hunger points, and they would give the goods to them, according to [11]. The sole stipulation is that meals must be prepared two hours ahead of time. These applications have transformed the way artificial intelligence is used by feeding the hungry. It is regarded as one of the most effective applications of software development. Food waste, on the other hand, is still a poor habit. People should be extra careful when preparing or ordering meals, according to [12], because many people throughout the world go hungry. Food waste has fallen significantly as a result of the application's use, but people must be more attentive and cautious in order to achieve a future where no food is wasted.

## 3. PROPOSED SYSTEM

This proposed system will eliminate all disadvantages and benefit both the giver and the receiver. There are two types of user registration/login in our system.

- Donor
- Seller

Donors with needs such as food, clothing, and old books (in good shape) can upload their offer to be donated via the app with images and basic information. Accepters are those who are in need and are looking for someone who can provide them with the necessities (free of cost).

As a result, this not only aids in preserving the balance between excess and scarcity of items, but it also aids in large-scale waste management. One of the app's features is that it verifies that the item being donated is in good enough shape to be distributed.

The user must fill out a variety of fundamental and vital information regarding the product. We will also form a partnership with an NGO, allowing food that was previously rejected to be distributed to those in need.

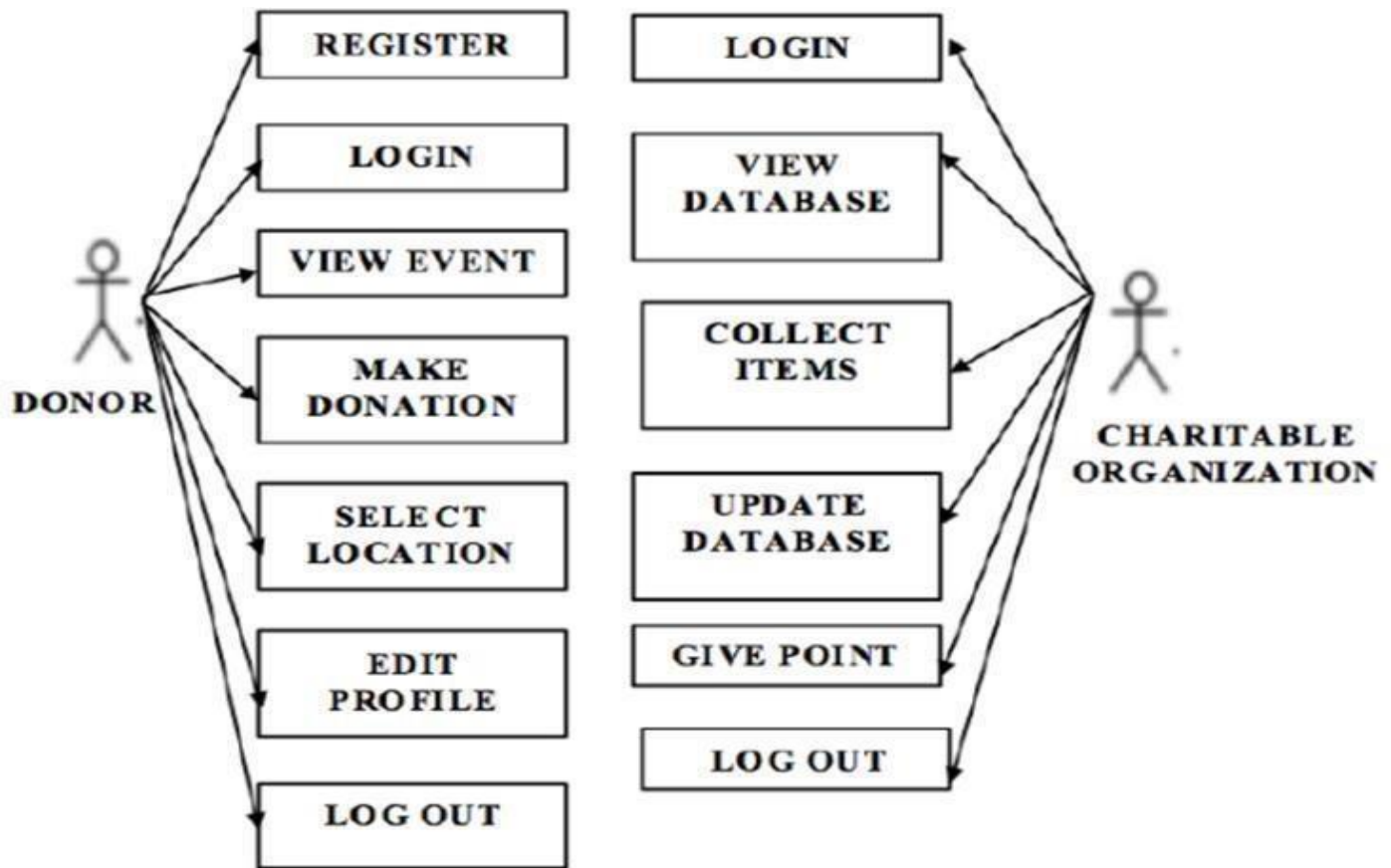


Figure 1. Use case diagram.

After completing the registration and login processes, the user is directed to a new page with four buttons.

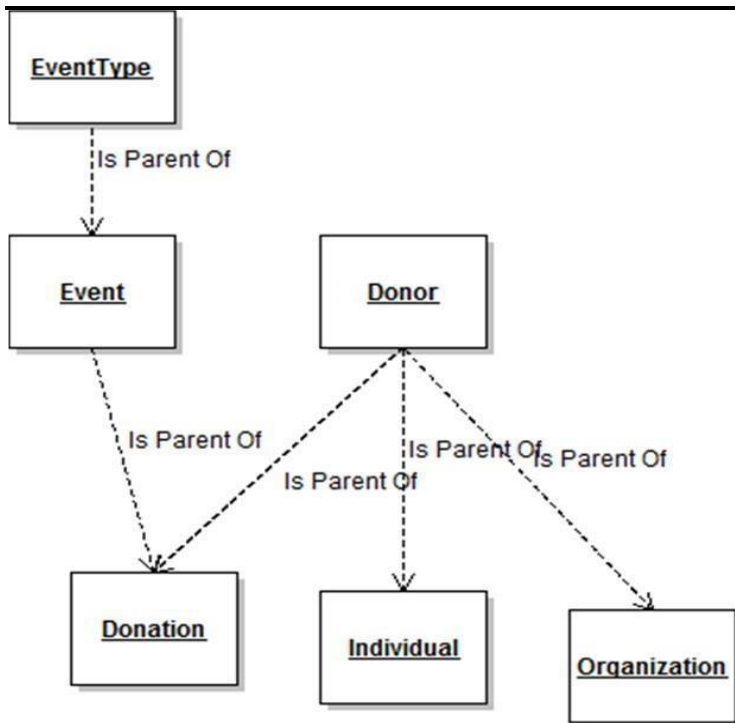
- For a charitable donation
- Acceptance of donations
- To make a contribution request
- For requests for donation

The consumer is asked some basic but necessary facts about the product they are donating when they choose the donation option.

If the user is contributing food, for example, the user is asked for information such as when the food was cooked or prepared, how fresh it is, what its edibility is and how long it will be edible, and so on. the food's quantity, If you want to upload a good snapshot of your meal, A few more details about the meal (optional).

If the user is giving clothing, the user is prompted for information such as the clothing's appropriate gender (male, female, or unisex). The state of the garments, Clothing dimensions, The type of clothing, as well as the colour of the clothing, are important considerations (in case the photo of the uploaded cloth is not clear or appealing). Some additional clothing descriptions and information (optional).

If the user is giving books, the user will be prompted for information such as the book's author and publisher. The title of the book, the type of book, and the author(s) of the book The book's target audience is a wide range of ages. The book's language, its condition, and its age are all factors to consider. Is there any information, text, or photographs missing from the book? Other information and descriptions about the book (optional).



### Functional Requirement:

#### Login:

- System will allow the user to login.
- System will verify the user name and password in database.
- System will not allow user to login with invalid username or password.

#### Registration or create account:

- Users will be able to set up accounts on the system.
- System will save user basic details and proceed further in the application.

#### Browsing and database search:

- System will allow user to search products that are available to be donated.
- System shall display the result.
- System will also allow the user to search the products by filtering with some criteria or sort them.
- System will allow user to check whether the item is available for donation or not

#### Post Requests:

- System will allow users to post the request for the item for donation.
- System will allow users to add details about the item they need to be seen by other users.
- System will allow user to show their requests to other users.

#### Look Requests:

- System will allow the user to view the requests posted by the other users.
- System will allow user to view the request posted by the other users
- System will allow its user to accept the request of the other user for donor

#### Connect:

- System will connect the people who have accepted the donation to the people who have posted the donation for the same
- System will share the contact details and location details as soon as the Donor confirms the donation to the accepter

#### Notification:

- System will notify the user when someone accepts the donation offered by the donor
- System will notify the user when someone accepts the request of donation and is ready to donate

#### 4. CONCLUSION AND FUTURE WORK

The main objective behind this project is to make basic essential things available to underprivileged where they both have a mutual platform for donating and accepting. To allow all the Donor to donate things they do not need anymore but is still useful. To eliminate the involvement of intermediate persons in the process. To make food wastage a prior concern Connecting Donor to the Receiver via the application. Optioning to make accessible to everyone. Providing knowledge to the under privileged by means of government schemes available to them in their regional language. Phone call option for Donor and Receiver Donation details entered by the farmers are stored in the database. Provide appropriate things for donation Main features

- Donation
- Food, Clothes and Books
- Food waste management
- Donation Feed

Our Goal is to build an android based application that allow its user to freely donate the basic essential things that are no longer of their use but can be of use for others.

This will give a sense of self satisfaction and good deed. It eradicates the hunger problems between daily wage workers and other unfortunate people. The other main side of the project is that hugely impacts the reduction of the food waste index.

The food wasted often is mostly in good condition and edible enough to be consumed by other people. Thus, reducing burden from the responsibility of both food industry and waste management industry.

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