GEO LOCATION BASED NECESITY DONATION

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Abstract: Food, Cloths, Books, Utensils are the first of all essential requirements, following food, shelter, and clothing, that pertain to people. It is significant because it sustains human existence by nourishing the body. But, as this nation's population and development continue to grow, these reusable waste has climbed day by day. There are lots of folks that want to provide reusable things to those in need, but they are unsure of how they may go about doing it. Our application focuses on connecting those in need with resources NGO's and average citizens. The donors will be able to see a variety of options for making donations. Through our application, the NGOs will receive information about the individuals wishing to donate, and a network between donors, those who assist donors in making donations (NGOs), and the actual needy individuals to whom donations are made will be created to thing sent is a donation. Our application seeks to improve the donation process transparency, clarity, and speed in order to lessen existing problems whenever it is possible to do so. With the help of this application, we will donate clothing, books, and leftovers to the poorest residents of India middle class, from the wealthy to the impoverished, and those that need. These foods to satisfy their empty stomachs, clothes to wear, and books to educate themselves are included. We have chosen to pursue this project, also known as, in order to put our creative ideas into practise “Geo location based necessity Giving App”. Food wastage in densely populated nations like India is a concerning problem. Weddings, canteens, dining establishments, social gatherings, and other events use up a lot of food. Food waste is a sign of numerous economic issues in addition to hunger or environmental degradation. Due to abrupt changes in lifestyle and habits. We can put these goods to use by giving them to someone in need rather than wasting them. This project is a mobile app for Android with an emphasis on charity donations. This project's primary goal is to contribute to the reduction of social and economic problems. This will assist in reducing food waste and supplying other necessities for those in need, such as clothing, books, blood, etc. This helps both the needy and the eateries (by lowering waste and carbon emissions).

Keywords: Donor, Volunteer, Food Donation, Waste Food, Firebase

I. Introduction

Our research into Android application development was done to combat the lack of access to inexpensive food that causes food insecurity. Making a significant contribution to several fields also enhances one's social standing. This software aids in the collection of discarded food and clothing from eateries and individuals, which are then given to those in need. Contributions are gathered from users at the proper times and places. According to their free time and goodwill, volunteers can use the app to deliver food or clothing to the needy. If donations could be made with a few taps on their Android phones and items were picked up at their doors at the appropriate times, that would be very practical and helpful. In India, 27.5% of people lack access to food and are unsure of where their next meal will come from. By way of "Geo Location Based Necessity Giving food or clothing to the poor has never been simpler thanks to the donation app. This app offers a wide range of features. The participating donors and charitable institutions are organised into groups according to a development wheel that points towards the nation's social standing. For donors, downloading the app allows them to choose the items they want to donate, including food, clothing, blood, and books. They can also enter their address and a convenient time for the volunteer to visit. Finally, posting a donation in the app will alert the NGO that is close to the donor's location. Restaurants can benefit from this app that is willing to donate extra food and other items by maintaining a "goodwill" points system for people and businesses. This device alleviates hunger and food waste in communities in need. Thus, a mobile application that allows users to donate goods in accordance with their means will be helpful in bridging the gap between donors and NGOs.

II. Literature Survey

[1] Aahar - Food Donation App
A platform for online food donations is provided by an android mobile application. It includes three distinct modules, etc. User Module, NGO module also the Admin Module. User After successfully logging in, users can utilise the module to donate food by including information such as foodtype, after which they submit the request. place, cooking day and time, and donor's availability and In NGO’s module those particular Donation details highlighted, followed by the NGO’s if they don't, will pick up that food by choosing the pickup time and date want food means Simply rejecting, they logout. Other then consume rest all things are packaged as gifts before being donated.

A mobile application for Android that makes use of the most recent technology, which makes use of IoT devices for food quality inspection. Here, there are two Modules. One is the User module, and the other is the NGO module. Here, after successfully logging in, the user donates food with the necessary information, like the type of food, how much is being donated, and the recipient’s
address. The details of the contribution may be viewed by NGOs, who can then designate a specific volunteer to pick up the food via a map link, examine the food using IOT devices to ensure it is in good condition, and distribute it to slum regions.

An android mobile application which came up with a lateral ideology. That is in all other journals they all are focusing on different NGO’s and for that NGO’s the food is being donated. Whereas here the people in needy is directly registered whether an NGO or a needy to donate so there by that particular organization or particular user will receive the food.

In order to link folks who are interested in donating their books to those who may be in need, this article suggests a straightforward smartphone application. The term "Bridge" was chosen with the idea in mind that it would serve as a conduit between the givers and the needy, allowing the latter to obtain the books they need from those who had finished with them.

Outlines a strategy for calculating donations for charitable groups that fight hunger. These organisations are dedicated to reducing hunger throughout the world and rely heavily on the generosity of contributors to accomplish their objectives. Yet, they have a hurdle in their mission to eradicate hunger because of the significant fluctuations in the volume and frequency of donations they get over time. A simulation model is created to estimate how much food will be donated each month in a multi warehouse distributive system. A state-space model for exponential smoothing serves as the foundation for the simulation model.

III.ANALYSIS OF EXISTING SYSTEM

In present, a current system for the food waste reduction app is the proposed system which only consists of NGO and Restaurants and User and Donor respectively. But in our app any person who has good quality food can donate food and any needy who can be any person or organization can request for food.

IV.PROPOSED SYSTEM

The main goal of our 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, utensils and books for free, and other users to freely collect the donations when they are needed.

The suggested application will lessen food waste while also satisfying other needs of charitable organisations, such as those for clothing, books, utensils, etc. The application gets rid of the students' current manual communication issues. Since the application was created using the Android SDK, it is user-friendly. The application is extremely quick, and any network transaction may be handled. Students are instantly informed of other extracurricular details through the application. This makes it easier for those in need to locate food in their area and get what they need.

ANALYSIS OF THE PROPOSED SYSTEM'S FEATURES:

User-Friendly: The suggested system is user-friendly since data is efficiently kept and is quickly retrieved and stored.

Computer operator control: There will be computer operator control, ensuring that there are no errors. Food is also simple to retrieve and store. Work is thus possible.

Benefits of the Suggested System:
1. It is trouble-free to use.
2. It is a relatively fast approach to enter food details.
3. Is highly reliable, approximate result from user.
4. Effective reports best user interface

ALGORITHM

STEP 1 : Start the application.

STEP 2 : Register by filling the necessary details.

STEP 3 : Select the Option of donor or volunteer accordingly.

STEP 4 : If you wish to donate go to donation page by clicking on Donor button.

STEP 5: Then click on create donation.
STEP 6: Fill up the necessary details and click Submit.

STEP 7: If you wish to see donation request then click on Request for Food option.

STEP 8: If you are in need of food then go to request food option which is on volunteer page.

STEP 9: Fill up your requirement and click on Request button.

STEP 10: If you wish to see available food list by donors click on Available Food Button.

1) If user is Donar:
II] If user is Ngo:

IMPLEMENTATION

In our application there are Three Main Sections:

I] Register

1. DONAR REGISTER:

2. NGO REGISTER:

II] Login

1. DONAR LOGIN:

Ø Donar required to enter the(Email Id & Password)

Ø Once Donar will login then, Donar seen the following functionalities:

A. Donate- Donar Name, Food Items, Phone Number, Description, Expiry(In Days), Donar Also Add the Image of any necessity, Location of the Donar is automatically obtained, submit the donation.

B. Mypins-Present location of donar, from he donating.

C. NGO On Map- Live NGO location will Display.

D. History- Donation Details and Expiry of Necessity (like Food items)

E. Log Out
2. NGO LOGIN:

A. Donate - Donor Name, Food Items, Phone Number, Description, Expiry (In Days), Donor Also Add the Image of any necessity. Location of the Donor is automatically obtained. submit the donation.

B. Mypins - Present location of donor, from he donating.

C. History - Donation Details and Expiry of Necessity (like Food items)

III About Us

OUTPUT
## Conclusion

The main objective behind our 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 wastage a prior concern Connecting Donor to the Receiver via the application. Optioning to make accessible to everyone. Providing knowledge to the underprivileged 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, Books, utensils, sanitary pads, grocery etc
- waste management

### Dashboard Display

<table>
<thead>
<tr>
<th>Ngo Dashboard</th>
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<tbody>
<tr>
<td>Donate</td>
</tr>
<tr>
<td>Ngo on Map</td>
</tr>
<tr>
<td>Map</td>
</tr>
<tr>
<td>My Pins</td>
</tr>
<tr>
<td>History</td>
</tr>
<tr>
<td>About Us</td>
</tr>
<tr>
<td>Contact Us</td>
</tr>
<tr>
<td>Log Out</td>
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</tbody>
</table>

### Give Screen

<table>
<thead>
<tr>
<th>Donate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Donor Name</td>
</tr>
<tr>
<td>Items</td>
</tr>
<tr>
<td>Phone Number</td>
</tr>
<tr>
<td>Description</td>
</tr>
<tr>
<td>Expiry (in Days)</td>
</tr>
</tbody>
</table>

Add Images

### Donate Page Continue

| Phone Number |
| Description |
| Expiry (in Days) |

Add Images

### Receive Page

| Receiver Name |
| Description |

Submit
➢ Donation Feed

Our objective build a mobile application for Android 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.

REFERENCES