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Meal Donation Application Using Flutter Technology

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Abstract: ***This mission is used to control the wastage of food in a purposeful way. people are throwing away lots of meals each day. So, we have to reduce that food wastage problem through online application. This app is basically a Food Donation App that includes Food Providers (Providers, Individuals and Restaurants etc.) and Recipients (NGOs, Individuals etc.). This app sets out the details of leftover food and pick up address and other relevant information that can be viewed by Recipients. Recipients with their consent can access the specified location to download the food package. Effective management and security of data is maintained while developing our product. User information is kept private because it maintains a separate account for each user. The potential for food redistribution for this project could be an effective social implementation initiative addressing food waste and food poverty.***

Keywords: Meal donation, Meal wastage, mobile application, flutter, firebase, mobile application.

I. INTRODUCTION

in step with the statistics of many food businesses there are plenty of peoples who aren't able to come up with the money for food as per their need or maybe a single time meal. there are various answers exist which reduces the wastage of food up to some extent, however such answers are appropriate for nations wherein humans' sense secure to go to an unknown place or to offer their addresses to a stranger for food distribution or collection. In India, meals are specifically donated through random distribution among a group people or via at once contacting charitable agencies or NGOs.

We introduce the Sahara app, that's based totally on a donation network that facilitates in searching for likeminded donations and demands, generating orders for donation or receiving. If we compare Sahara app to other food donation apps, here the method used is less complicated and specifically designed consistent with Indian reality: In Sahara app valid electronic mail account is needed to continue which gives greater protection for the customers as they are required to create an account with legitimate e mail to proceed; this app especially give attention to that a part of individuals who are in want of food via handing over meals as according to good enough amount required and with all precautions and protection.

the world goes through a harsh and unpredictable instance. The coronavirus (COVID-19) pandemic caused many issues and uncertainty in existence of peoples in India because of which human beings were struggling in affording required amount of food as in step with their need. The poor peoples, every day salary workers, low profits companies were going through numerous demanding situations in pleasing their everyday food necessities. As in the maximum of the cases, people living in poverty were suffering a lot. there were numerous old aged those who were living alone at home and had limited assets to fulfil their simple requirements.

via the contribution of this app, we are able to assist people to offer meals to these helpless needy individuals who are hit the toughest by using the global coronavirus (COVID-19) pandemic. So, the purpose of this software program is to make the donation of excess food that all we have in our homes, accommodations, restaurants etc. easy.

The paper consists of following sections:
"Procedure" describes the method used to create a donation application.
"Modelling" which explains the structure of the models inside the project
"Result" that shows the experimental analysis of the project.
"Conclusion" that indicates the consequences and conclusion.

II. PROCEDURE

This software program consists of maintaining donor information, maintaining receiver end details, retaining donation details, request for a donation and deliver remarks. it can be accessed from our houses as well as different lodges, eating places and so forth. and will make donations less difficult. This task could be a mobile application by the use of Flutter and Firebase using Dart language. Steps include database design, shape design, coding and checking out.

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III. MODELLING

Entity courting Diagram (ERD): An entity-courting diagram (ERD) is a fact modelling method that graphically illustrates a statistics gadget's entities and the relationships among those entities.
Entities together with their attributes within the following ERD are:
Donor details: D_id, D_name, D_address, D_phone, D_email.
Donation info: Item_id, Item_type, Quantity, D_date, D_mode.
Receiving end details: R_id, R_name, R_address.
Feedback: Name, Email, Phone_no, Feedback.
Person of Contact: P_id, P_name, P_phone.

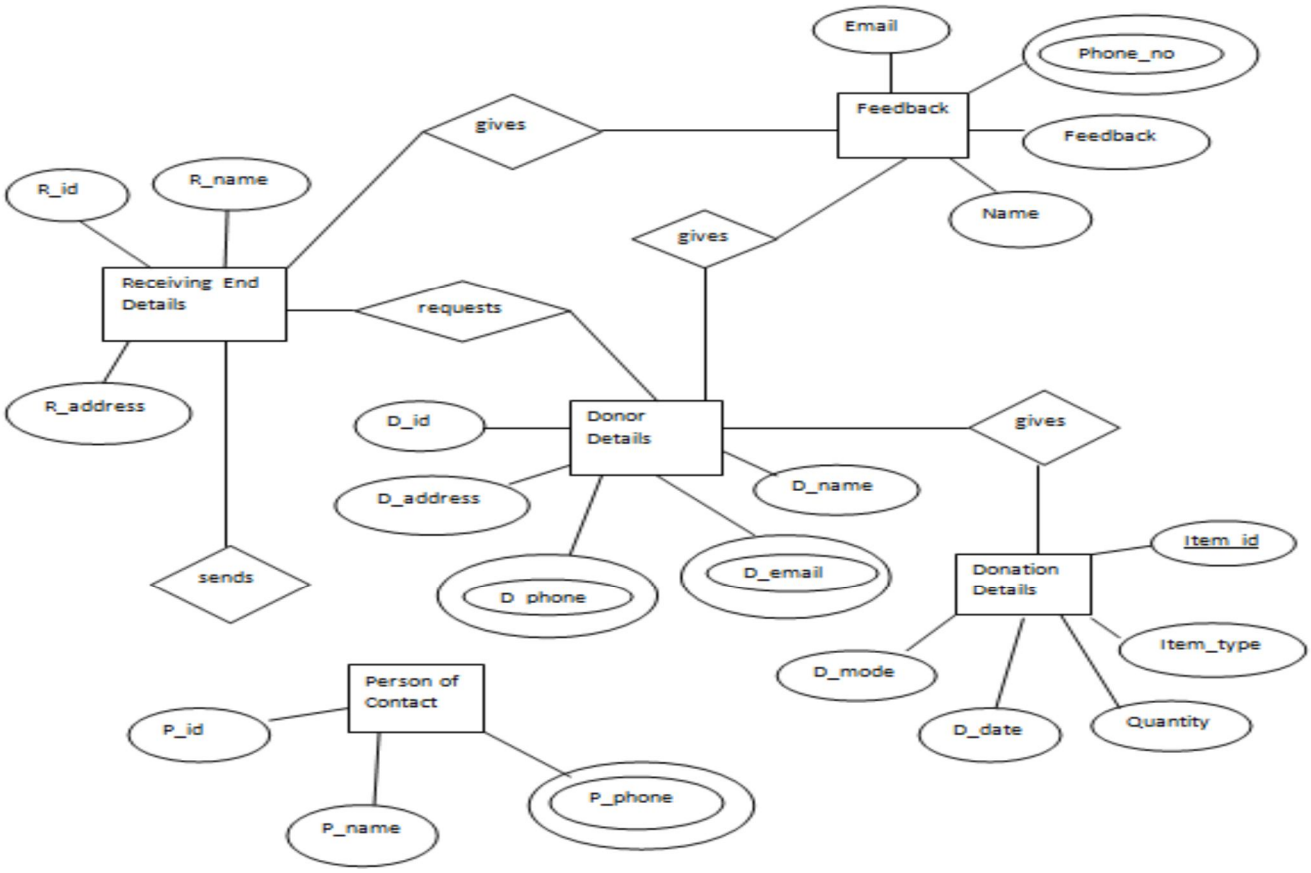
IV. RELATION BETWEEN ENTITIES

Entity courting Diagram (ERD): An entity-courting diagram (ERD) is a fact modelling method that graphically illustrates a statistics gadget's entities and the relationships among those entities.

Entities together with their attributes within the following ERD are:

1) *Donor Details:* D_id, D_name, D_address, D_phone, D_email.
2) *Donation Info:* Item_id, Item_type, Quantity, D_date, D_mode.
3) *Receiving end Details:* R_id, R_name, R_address.

Donors and Receivers sign up using name, address, phone and e-mail, then the Donor "gives" donation details that comprise form of item, quantity, date and mode and the Receiving end "requests" donor for donation details. After this the Receiving end "sends" the person of contact whose entity contain name and phone number. lastly both Donor and Receiver "offers" comments containing name, phone number, e mail and the feedback note itself.



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V. RESULT AND DISCUSSION

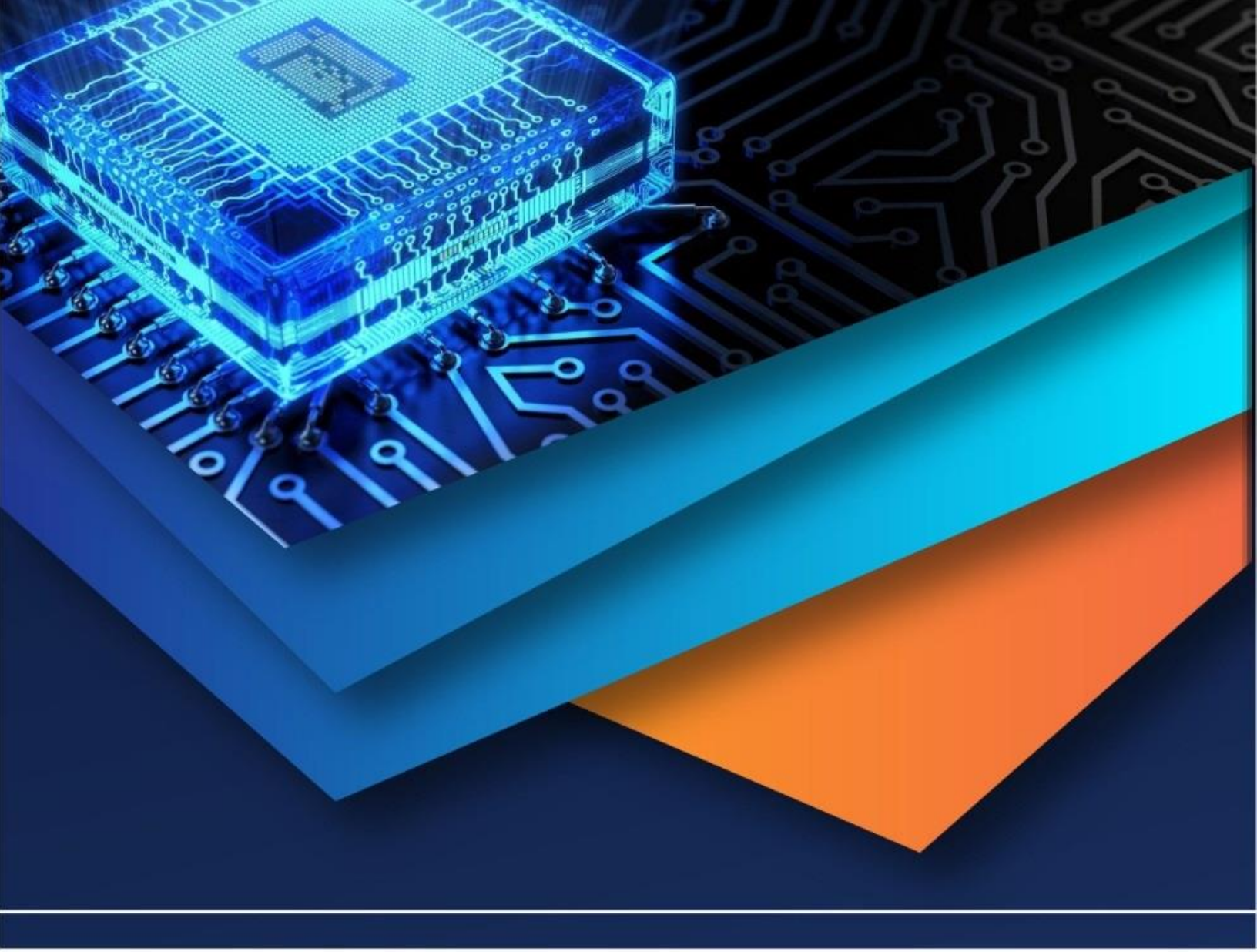
The Sahara app permits persons, restaurants and hotels to check in as food donors, and permits charitable organizations to check in as meals receivers. as opposed to people sharing food, the volunteer work does no longer rely best on donation: different entities may be meals donors but also can assist to transport food from a food donor location to a charitable employer. On the one hand, a volunteer offers meals to donate. On the other, a charitable organization reviews particular meals demands. As an intermediary, a transporter volunteer will carry out the procedure of gathering the food donation and taking it to a charitable employer. the main idea of the app is to facilitate the connection among meals donors, shipping volunteers and charitable corporations, developing a food donation network. The features covered in our mobile application have been primarily based on visits to corporations that might match as food donation receivers. This also allowed us to understand the activities evolved round them in addition to their target audience. The app stores the essential information about its users and about the meals laid out in each donation and demand settings. The final mobile application is deployed on the idea of all of the models that had been made and functionalities that have been determined.

VI. CONCLUSION

in the world of today in which one is struggling to consume the meals of a single time and no person is looking closer to that a part of world that is undergoing such conditions then there are a few people who are giving their contribution in this type of excellent deed of serving food to the needy. And we want to serve the ones soldiers of society through creating an app with the intention to hold them responsible of their good deeds. we're very honoured and proud to bring the concept of responsibility into an app with a purpose to assist donors to come and make them rely inside the part of serving. so that it will be easy for one to contribute their part into the society.

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[3] https://flutter.dev/docs/reference/flutter-cli
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