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A REVIEW ON HUNGER FREE FOOD DONATION ANDROID APP

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ABSTRACT :

In extraordinarily inhabited international locations like India, food waste is frequently an annoying problem. The streets, rubbish boxes and landfill had sufficient evidence to show it. Weddings, canteens, eating places, social and own circle of relatives get-together and features expel out such hundreds meals. Food wastage isn't always solely a demonstration of starvation or pollution, however similarly of the diverse monetary problems. The excessive common of residing has resulted at durations the wastage of food, clothes, then on. Due to quick modifications in behaviour and lifestyle. In place of losing those items we have a propensity to are capable of location them in use through donating them to numerous corporations recognize orphanages, maturity homes, then on. The artefact is an internet-primarily based totally android software that essentially goals at contributions through donations. As referred to past at durations the define there' several food wastage that takes place every day at eating places and cafes. In place of abandonment a comparable as trash it will be used to feed the needy people.

To avoid this drawback we've a bent to develop a Food donation app for Android to reduce food waste by donating excess food to poor or needy people. To beat this problem the android application is advanced to reduce the food wastage through donating additional food to poor.

KEYWORDS: Food Wastage,Receiver,Android,Needy,Hunger,Donor,Food Donation.

I.INTRODUCTION

The Hunger Free Food Donation Project System can also be a project to finish starvation and no losing of food to form a hungry-unfastened global. In line with the most recent appraisal, 1.3 billion many meals is thrown as waste each year. Additionally, tierce of the food fed on is said as leftovers. The maximum awareness of this project is to scale back the range of meals wasted and acquiring went to the needy humans. Therefore, an android-primarily based totally software is evolved via way of means of that any individual can present meals with their functionality and on the identical time the software shall we the corporation to location their request on their demands. The vital requirement to apply this Food Donation Android Application Project System software can also be a phone. Food wastage is absolutely considered one among the most essential troubles all countries face. Consistent with a study, the most quantity as 40% of the meals created in Asian country to waste day after day. The wastage is even extra for the duration of weddings, galas and further in hotels. On the selection hand, numerous kids die each day because of malnourishment. There are many NGOs which is probably in operation tough to verify such meals reaches the poor and needy humans.

II.LITERATURE SURVEY

The 2014 document, Smartphone-primarily based totally extra meals deliver chain for Aurangabad City the use of location-primarily based totally GIS and Google internet services, describes the client -Server-GIS and cell utility for make a hungry loose city. The application for the client side gives the possibility, to donate food to people in need. Dispensers give simple information like how much of the food and what kind of food it is with quantity and of its respective contact number. NGO or each social organization work can collect the span Food and deliver to hungry people. When registration is complete, is placed on the server side database from where organizations can store records of donors and their Route optimal from location of the donor to the next NGO or any organisation together with addresses. So that hungry people can get food on time [1].

The paper 'Beyond meals sharing: Supporting meals waste discount With ICTs', posted in 2016, ensuring the high-satisfactory of meals is a key to stay a higher lifestyles with proper fitness for residents in any respect levels. As modern-day monetary problems were elevated human beings are dealing with greater troubles like meals poverty, specially in installed regions. Regardless of a developing cognizance of significance for discount of meals wastage amongst human beings and dealing with more meals, the a part of ICTs on this area remains uncertain and infrequently documented. According to this paper to get better meals extra we use the equipment of ICT equipment to get better meals extra at many degrees of the deliver chain and it additionally describes the manner ahead for an blended set of ICT equipment to lower waste from manufacturers to needy families

The paper 'Zero Hunger: Smart Food Donation System Using IoT', a paper published in May-2021, is an android mobile application that employs cutting-edge technology, including the use of IOT devices for food quality assurance. It contains two Modules here. The first is the User module, and the second is the NGO module. They log in, donate the food, including details such as food description, quantity, and address, and then post the donation. NGO's can view the donation details and then assign one specific volunteer to receive it. The food via a map connection, and volunteers will check the food with their IOT devices to confirm that it is safe. is beneficial and widely distributed in slum areas [9].

The paper 'Food Donation Application: Food Share' [6], published in May-2021, is an android mobile application with a lateral ideology. That is, in all other journals, different NGO's are highlighted, and food is donated to those organisations. Whereas in this case, people in need are directly registered. whether an NGO or a needy person, so that when a user wants to donate food, he can choose who he

wants to donate to. Donate so that the food will be delivered to that specific organisation or user [10].

III. ANALYSIS OF EXISTING APPLICATIONS

We investigated tactics (geolocation, crowdsourcing, and superiority), phases (assembly, dispersal), and, as a result, the number one focus domicile meant for the applications (endowment, involvement, storage, etc.). In addition, we seemed into whether or not any of the applications gathered waste era statistics or provided APIs. Few applications cowl all phases, at the same time as the bulk specialise. Few have taken into consideration collecting facts approximately stuff era withinside the consumption section .

FINDINGS

To conduct a methodological assessment of the survey findings, we check out whether or not or now no longer the programmes provide a diploma of customer adoption, reputation and knowledge, needs, engagement, and mindset, in addition to behavior extrade in their results. waste-discount processes we check out whether or not the ones programs inspire clients to be well-versed and whether or not They use persuasion techniques to justify their wasteful behaviour. Also, whether or not or now no longer they specialize in waste prevention in place of waste generation. Rather than dealing with it Even while interacting with the Infine, if the house equipment specializes in purchaser engagement and creates a superb consumer experience, fun surroundings for the purchaser's device.

ADAPTION BY THE USER

Consumer to consumer:

Around are severa obligations for partaking remains and excess food amongst consumer organizations. These assignments Build organizations of humans withinside the identical area who are much more likely to percentage food and reduce left-over. We have noticed many web sites and apps are lively in England, Germany, Austria, Spain, India, and the United States, building in large cities, organizations as a whole. Some give the impression to be overjoyed with the variety of instals.

Retail to consumer:

Some supermarkets in the Kingdom of the Netherlands inform customers about groceries nearby. 'best before date' and offer discounts on these products. Other apps are used to order takeout. There are bakeries and restaurants in the neighborhood.

Consumer and retail to charity:

Many community contributions projects are sprouting up to donate an excess of food to a specific contributions organisation.

IV. TECHNOLOGY ANALYSIS

JAVA:

Java is associated with object-oriented programming language initiated specially for the platform independence. Before the origin of Java there were many programming languages, but those weren't platform independent. Java has some features those are very powerful compared to all programming features.

Those features are given below.

- Easy and simple.
- Special importance on data rather than procedure.
- Data is not accessible to external function called function called hidden concept.
- Allocate the new memory for data and function is easy.
- Java is helpful to execute the multithreading program.
- Java to let has secure execution.
- Java has a portable concept which we write in one computer and it can execute anywhere or different computer.
- In Java we use Exception handling, String handling, Garbage Collection etc.

ANDROID:

What is Android?

Android may be a mobile software system that's developed supported the assorted versions of Linux, that are changed because the requirements change.

Android application is an application which is used as an operating system for cell phones. Now days we go through PDA's, television story, touch pads.

The Android OS is developed by Google. It works at the precept of a Linux kernel, it has diverse layers, for builders there may be a layer referred to as software layer at that layer diverse functionalities are provided. For growing the android software an IDE referred to as android studio is used, in android studio diverse documents are used for one of a kind purposes. Activity is a Java record which defines the pastime of the app; happen is a record which controls behaviours including app, name, and icon.

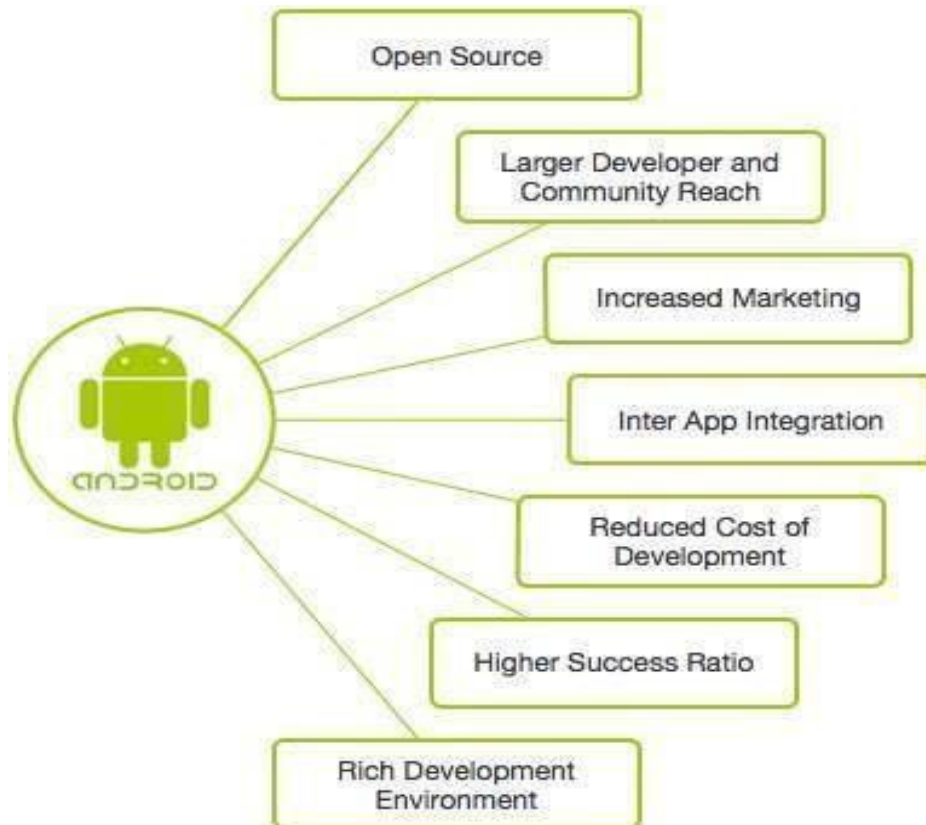


Fig .Overview of the Android

ANDROID STUDIO:

Android Studio is an Android-centric IDE premeditated specifically for improving Android. Android Studio uses Java and XML. Java is considered the first for developing mobile applications based entirely on the Android platform. This is because Android take account of its Api and Java libraries. So it's easy to use Java for Android programs, all Android and Java APIs are used to write code for Android applications. Xml makes it easy to design the layout of the software package no matter what it looks like, how to place extras like buttons, content view, etc. and his style.

Android Studio Features:

- Run Instant App.
- Connects to the base of operation.
- fastest emulators.
- Visual layouts editors.
- Up apps for every device.

ANDROID SDK:

The Software development kit helps developers to develop application in the Android platform. It includes libraries required to build Android application, sample source code, and an emulator. The Java language is used to write applications and Dalvik virtual machine is used to run the application.

FIREBASE:

Firebase is a tool and a Google platform which includes multiple services that helps many businesses to take care development needs. This tool is useful in developing mobile applications integrated with a real time database. Firebase itself takes care about the server; therefore there is no need to configure a server. It enabled more developers to shift to this platform from its amazing features.

Features of Firebase are:

- Authentication and crash reporting.
- Cloud messaging for notifying customers about latest updates.
- Storage capability for user generated data and Real time Database.
- Analytics, App Indexing, Dynamic links and invites.

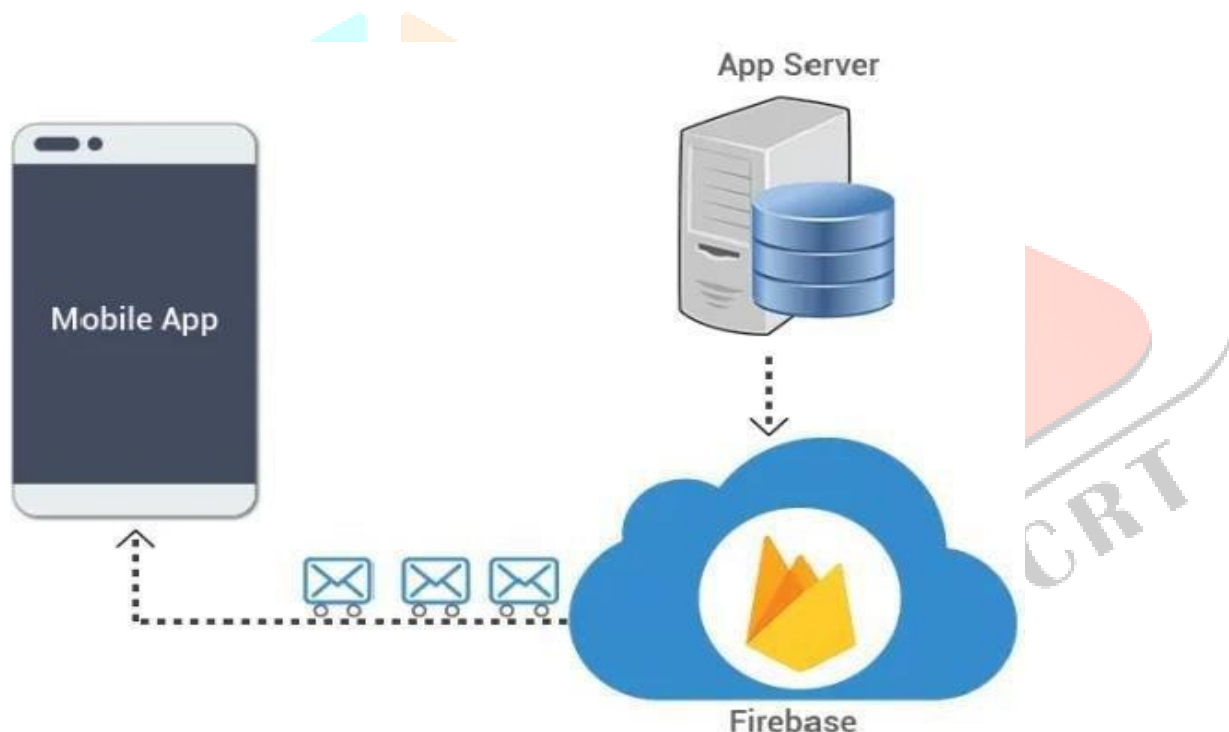


Fig. Firebase Architecture

FABRIC:

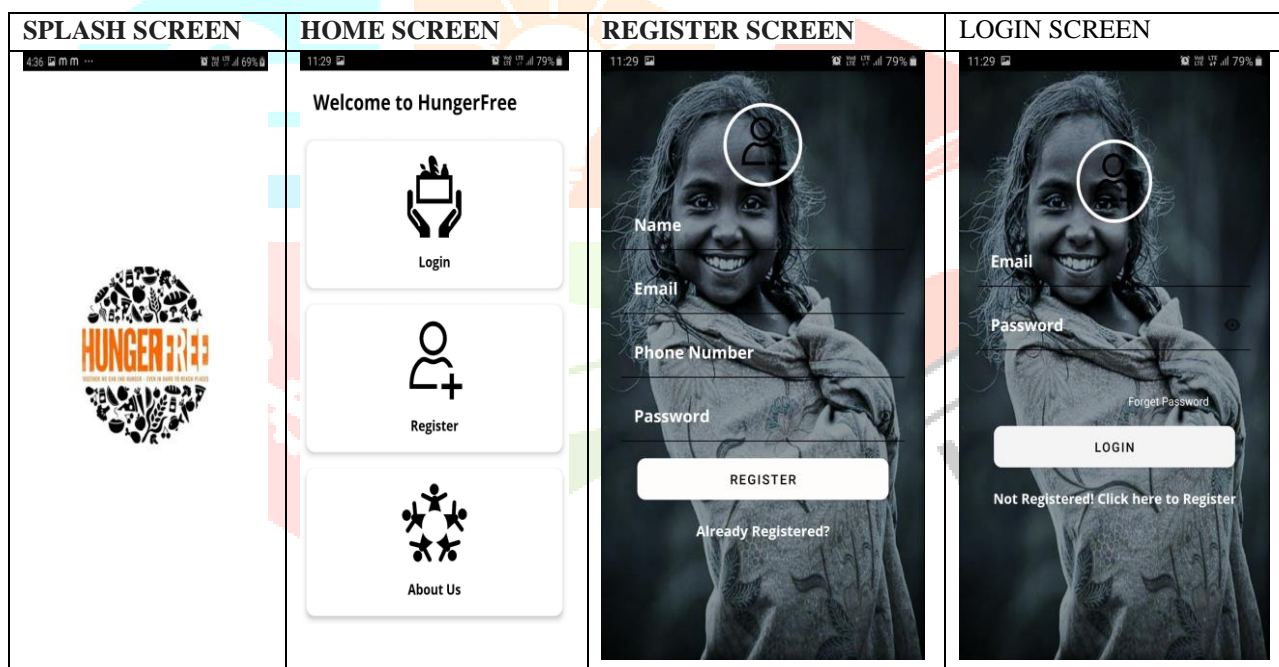
Fabric is a software development kit introduced by Twitter which provides a set of crash reporting tools and mobile analytics tools for mobile applications. Fabric tool crashlytics is a crash reporting service which can track crashes in android application. It is free of cost and it helps users to have a very detailed view of their application crashes in the real word.

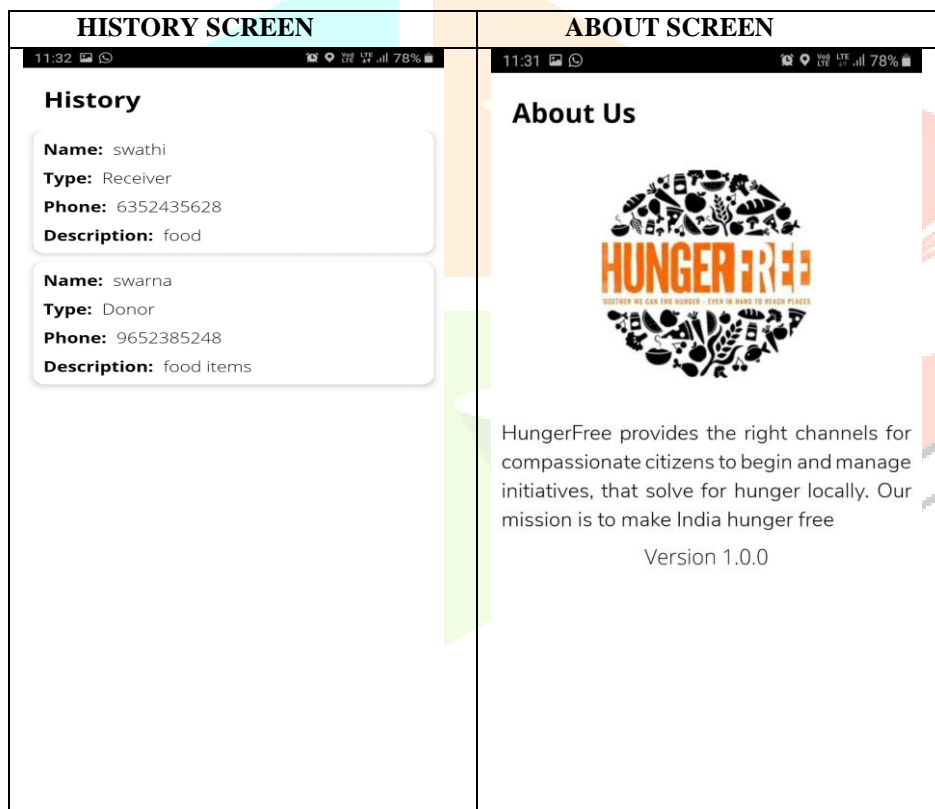
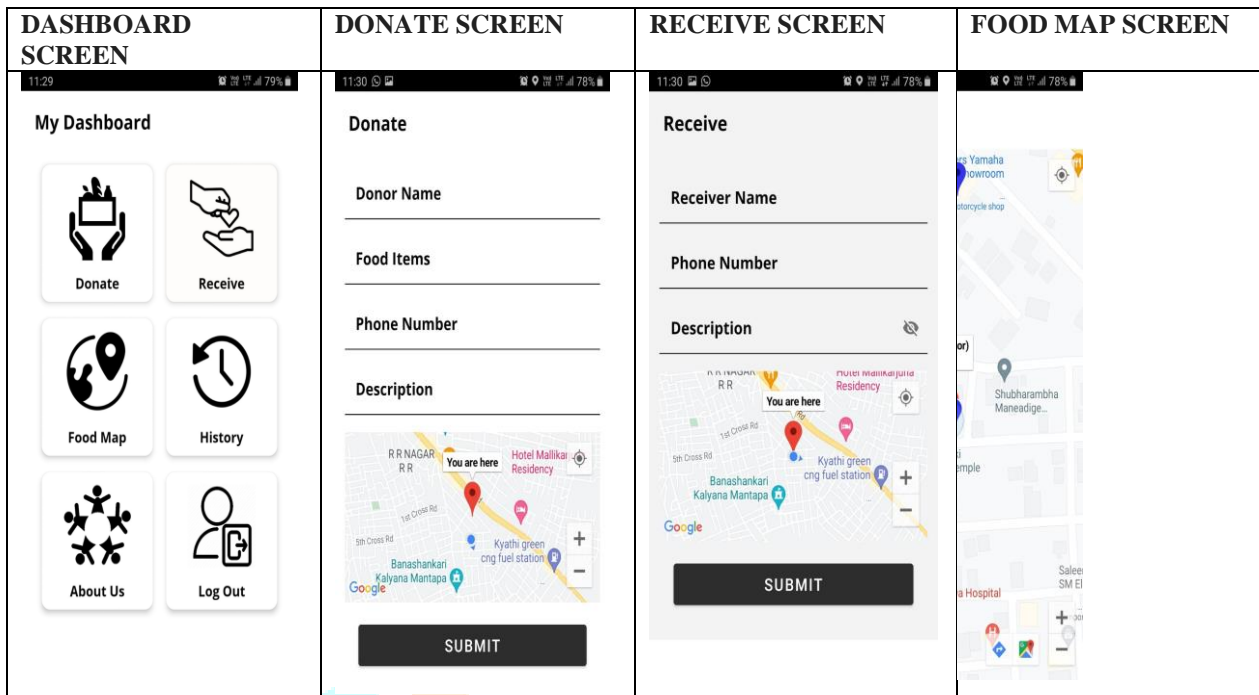
V.RESULTS AND DISCUSSION

The majority of packages specialize in meals donation method, convalescent meals from donors (meals makers, distributors, stores or people) and again distributing to groups and public offerings helping the greatest disadvantaged. installing quantities for every the efficiency of lowering left-over and grading of person uptake near rubbish should be well assessed. there is a necessity} for an interactive technique to fashion methods that keep away from relying on a choice to waste much less meals as a number one motivation, keep away from including the strain that currently obstruct meals waste discount, and alternatively purpose to fashion the meals waste control software to own similarly motivations, at the some distance aspect discount in meals waste, so they are certainly beneficial and fascinating.

Food waste control packages ought to reflect on consideration on a intention at the some distance aspect really refuse discount to boost person participation. to boot, software designers must be pressured to think approximately the mixture of pastime extrade techniques, like persuasive technology and specialize in person interplay fashion via way of means of developing the interplay as clean as potential. Social networks may be idea of to engage customers within the pastime. as an example, the employment of Facebook or Instagram to shape an ecosystem anywhere customers may also make a contribution to refuse discount and donation.

Future traits should reflect on consideration on the mixture of a gratified layer to a center pastime to realise person motivation and long-run engagement with the software.





VI.CONCLUSION

People uses of mobile phones for different function and the style is evolving year by year. The proposed applications must reduce food waste. There is a huge amount of food waste that take place in our everyday lives. As an alternative of throwing it away as garbage, it can be used to feed the homeless. Indicates the neighborhood where the most food is available and statistics on the amount of food available. It is a satisfactory individual benefit. Therefore, there can be no problem in using this effectiveness. Therefore, FTH mobile application has the ability to attract a wide variety of customers and hence is beneficial in solving the hunger problems and food waste around the world.

The proposed software program aims to eliminate food waste and also fulfill numerous requirements including clothing, books, paraphernalia, etc. from clubs without money. Restaurants and bistros generate a large amount of food waste every day, as shown in the figure above. Instead of dumping scrap equivalents (which is usually the country of affairs), it could be used very effectively to care for the destitute. Likewise, cafes/bistros no longer need to repeat their maintenance because the van is equipped with the useful resources of corporate use. Be that as it may, feels a little more comfortable with this choice than with manually entering the food details. In any case, it is necessary to overcome certain obstacles that will allow you to make it a standard. However, for the meantime, this software program offers a realistic and powerful affiliation.

VII FUTURE SCOPE

Although the project is completed with the related requirements, some features can be added:

- Various languages can be recorded.
- Compliance with exceptional requirements such as books, clothing, etc.
- Ensure that the application enables multiple stages (cross-platform application).
- Distance limitation might apply. The person must be internally 30 to 60 minutes away from the tour.
- Tracking request may be available to track the location of groceries during transit.

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