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# FOOD SHARING APPLICATION

**Ashwathi S[1], Ashwini K[2], Jancy Sickory Daisy S[3], Maheswari M[4], Dr. Roselin Mary S[5]**

Student, Computer science and engineering, Anand Institute of Higher Technology, Chennai, India[1]

Student, Computer Science and Engineering, Anand Institute of Higher Technology, Chennai, India[2]

Assistant Professor, Computer Science and Engineering, Anand Institute of Higher Technology, Chennai, India[3]

Assistant Professor, Computer Science and Engineering, Anand Institute of Higher Technology, Chennai, India[4]

Head of Department, Computer Science and Engineering, Anand Institute of Higher Technology, Chennai, India[5]

**Abstract:** The product is a web-based totally android utility that essentially pursuits at charity via donations which as entire programmed in Java. In this we have used predominant characteristic donate, sell, view holder and so on. A food sharing application is a platform designed to connect people and businesses with surplus meals to the ones in want of meals. The purpose of this application is to reduce meals waste whilst addressing food insecurity and starvation. Customers can submit to be had food items, and other customers can request or declare them. Usual, meals sharing utility goals to create an extra sustainable and equitable food device by using leveraging era to attach food assets with individuals who want them. Via its person-friendly interface and social functions, the meals sharing utility encourages individuals and businesses to come to be more aware about their meals waste habits and promotes sustainable practices. This app is designed to make it clean for users to percentage surplus meals with others in their community, whether it be meals that is approximately to expire, leftovers from a meal. This platform helps to reduce food waste and alleviate hunger by using selling the sharing of extra meals, at the same time as also fostering an experience of network and social responsibility.

**Keywords:** Android application, Surplus sharing, Food donation, Donor, Hunger relief, Community engagement, Logistics, Social responsibility.

## I. INTRODUCTION

This paper offers new Android based software that offers a platform for donating the leftover food to all needy people or companies. Thereby, an Android software has been advanced via which people can donate objects as per the ability. Most people of the population nowadays use smart phones with lively net connection, that is the primary requirement for this product to feature nicely. A mobile-based utility has therefore been created wherein people can donate food merchandise according to their capacity. The meal's donation utility serves as an interface among customers looking for a channel to donate without wasting the surplus food. A few people and establishments want to contribute items to employer in want. It attracts them to do donate in a smart way. The food sharing application is a digital platform that aims to address these problems by means of permitting customers to proportion their surplus meals with others in their network. The app makes it clean for individuals and corporations to connect to each different, proportion meals assets, and decrease meals waste. This approach has the capacity to not best cope with food waste however also contribute to a more sustainable food machine, as it promotes the reuse of meals resources and decreases the want for new manufacturing. This creation will provide an overview of the meals sharing software, inclusive of its key capabilities, benefits, and capability. Our app makes it clean for people and businesses to percentage their surplus meals with close by recipients, which includes charities, and individuals in need. Meals recipients can then use the app to look for to be had food in their region. They can view the details of each food donation, along with the kind of meals, the quantity to be had, and the vicinity. After they discover a suitable meal's donation, they are able to arrange for pick out-up or transport through the app. Meals sharing applications can advantage each the donors and recipients. Donors are capable of reduce meals waste, which not only facilitates the environment however also reduces their disposal charges. Recipients, on the other hand, are capable of access fresh, healthy food that they will no longer be capable of manage to pay for otherwise.

## II. RELATED WORKS

A number of the waste food sharing applications that have been developed in India include Feeding India, Robin Hood military, and No meal Waste. These applications had been a success in addressing the issue of meals wasted and starvation in India by means of connecting meals donors with the ones in need. However, as mentioned earlier, one primary drawback of these packages is that they often feel membership, that may restriction their accessibility to low-earnings families. Too exact to Waste is a waste meal sharing utility advanced in India that allows meals stores to publish records

  

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approximately their surplus food, that may then be purchased at a discounted fee with the aid of customers of the application. One essential drawback of this application is that it cannot be handy to low-earnings families who cannot afford to buy discounted food. Moreover, the software is predicated on the participation of meals stores, and if there aren't sufficient outlets the use of the software, there may be confined food available for purchase. Subsequently, the application may additionally have limitations in phrases of geographic insurance, as it is able to no longer be available in all regions of the USA, restricting its reach and effect. ShareX is a waste food sharing application developed in India that permits users to put up records about their excess meals, that may then be claimed through other customers of the application. At the same time as the software has several advantages in phrases of reducing food waste and hunger in India, it additionally has some negative aspects. One major drawback is that it is predicated on the participation of customers, and if there are no sufficient customers posting records approximately their extra meals, there may be restricted food available for declare. Eventually, the utility may also have troubles with food protection and hygiene, as it's miles difficult to make certain that the meals being shared is safe and healthy for intake. To cope with these issues, the software might also need to put in force stricter suggestions and protocols for meals protection and hygiene, in addition to actively sell and inspire participation among customers.

## III. EXISTING SYSTEM

Currently, humans donate stuff manually by using journeying each business enterprise quantity of times. As a way to lessen the troubles of meals wastage. A number of the websites are doing the works like this application, however all the web sites aren't easy to address through the unknown technical people. These will now not help to locate the houses or orphanages very effortlessly, due to their functionality of the programs. To overcome this issues, we are generated the mobile software to perform in future.

## IV. PROPOSED SYSTEM

Our proposed answer is an internet-based totally Android application for food sharing so that it will be developed the usage of Java programming language. The software will make use of foremost functions, namely, the donate and sell functions, and will contain view holder functionalities. Donors will be able to donate or sell surplus meals gadgets by means of specifying the food quantity and weight, deal with, and further statistics through the user-friendly interface. Buyers might be able to view the availability of meals items, along with their weight and order depend, and vicinity orders for the preferred food items. The utility will feature a time and date picker function to allow customers to timetable the transport of their orders. The shipping phase will utilize logistics algorithms to optimize shipping routes and handle the logistics of shipping primarily based on the client's place. The application's history segment will preserve a file of the shipping manner for every order. Our answer goals to sell sustainable practices, lessen food waste, and cope with meals insecurity and hunger with the aid of leveraging era to attach meals resources with individuals in need.

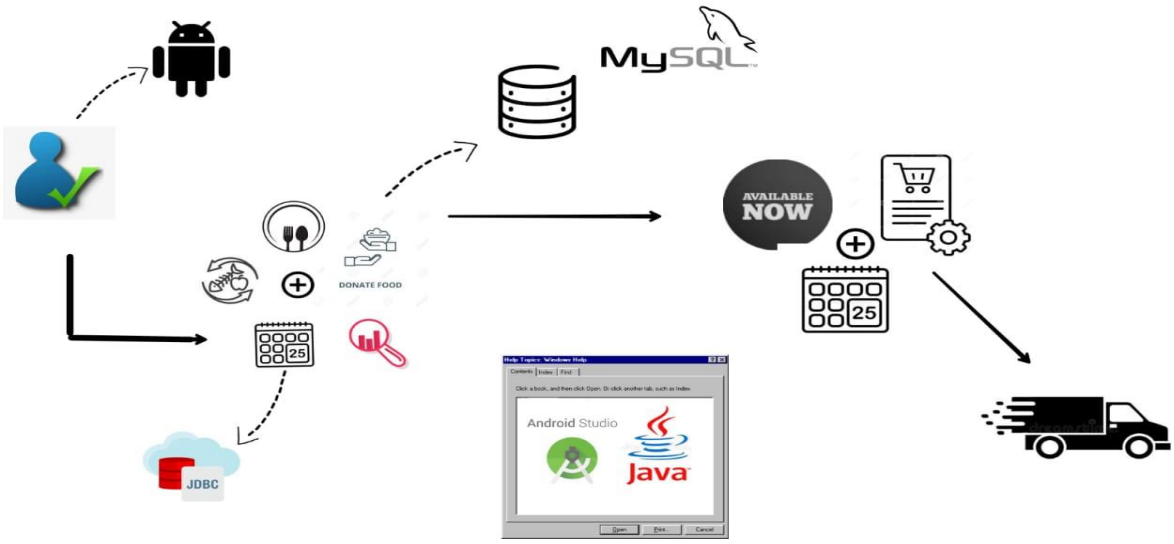


Fig. 1 System Architecture Diagram

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## V. IMPLEMENTATION

The registration phase of the waste food sharing application will allow users to join up effortlessly with their email. As soon as registered, users might be capable of create a profile with their desire and location. The meal's retailer section will allow meals companies, ingesting locations, café or a home character to put up statistics about their more meals that would in any other case go to waste. They may be capable of upload facts approximately the meals gadgets, their expiration dates, and portions available. But, the food customer module will allow clients to look for to be had food donations primarily based on their region and food selections. The records section will hold song of all the transactions, at the side of the meals donations made by means of retailers and the meals pickups or deliveries made with the useful resource of buyers. The food amount segment will permit retailers to specify the amount of food available, and consumers can pick out the quantity they want. The timer module will assist shoppers set up for pickup or delivery in their food donations interior a hard and fast time body, and the date module will help them pick a date this is convenient for them. Eventually, the transport phase will allow customers to arrange for the delivery of their food donations. This could be done through a third-party transport provider or via the software's very own shipping carrier. The transport module will even consist of facts approximately the transport fee and the expected transport time. Commonplace, the waste food sharing application will provide an easy-to-use and green platform that connects meals donors with humans in want of meals, on the identical time as also supporting to lessen food waste and sell sustainable practices.

Profile:
This module initiates the logging and sign in manner and has the subsequent interfaces. The money cart characteristic must truly show the pricing of food gadgets, together with any extra prices or taxes. The rewards characteristic has to allow customers to redeem their points for rewards which includes reductions, unfastened items, or other incentives. The records page need to show an entire record of users beyond orders, together with the meals gadgets bought, prices paid, and the date of buy. In consumer registration customers can create an account via providing simple statistics like name, electronic mail, and password. In person account management customers can replace their non-public information, trade their password, and delete their account if favoured. In order history customers can view their beyond orders and transactions within the app. Customers may also earn rewards or loyalty factors for the use of the app, and these can be tracked within the profile module.

Retailer:
This is the fundamental module where interfaces are inserted which include food donate and meals promote. Meals DONATION — the app to have a smooth-to-use interface that permits customers to quickly donate food objects to the ones in want. onBindViewHolder() is the characteristic which holds the food donation software tools. Food sell — The app lets in customers to easily list their meals gadgets on the market and putting a price that's performed with the aid of onCreateViewHolder(). In store registration outlets can create an account by means of presenting simple data like name, e-mail, and password. It has Product control wherein shops can add or update their food items, including descriptions, photos, expenses, and availability. Any other field called Order control via which stores can view and control incoming orders from customers, along with accepting or rejecting orders, and tracking order repute.

Buyer:
The module encapsulates a software program tool called food market in which the consumer can do buy. getReadableDatabase() implements user_id, user_name and rawQuery() feature. Strategies like getter() and setter() to name the example constructor as it must make access the buyer module. Shoppers can search for meals gadgets based totally on various filters, together with category, price or location. Customers can vicinity orders for meals items, select charge techniques, and tune their orders' status. Buyers can also earn rewards or loyalty points for the use of the app, and these can be tracked within the consumer module.

Delivery:
DeliveryConform elegance that is used to configure the shipping phase. The whole shipping phase works beneath this class. The following feature were embedded on this magnificence getFood_name(), getFood_weight(), getBuyer_order(), getDelivery_time() and so on. Customers can choose from various transport alternatives, inclusive of pickup, neighbourhood delivery, or national shipping. Buyers can music the reputation in their delivery in actual-time, along with the expected shipping time and the driving force's region. Shoppers can acquire notifications about the fame of their transport, including while the motive force has picked up the order or whilst it's been brought. Shops or dealers can manipulate their drivers and assign them to specific deliveries. Consumers can request returns or refunds for his or her transport if there are troubles with the meals object or delivery process.

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## VI. RESULTS AND DISCUSSION

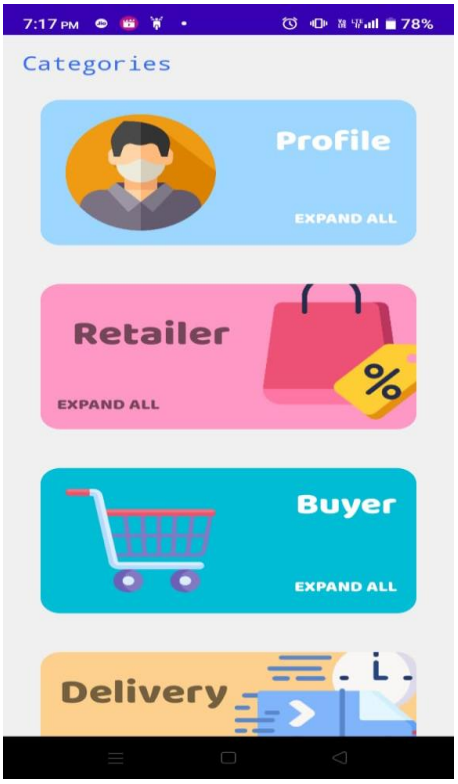


Fig 6.1 Home user interface

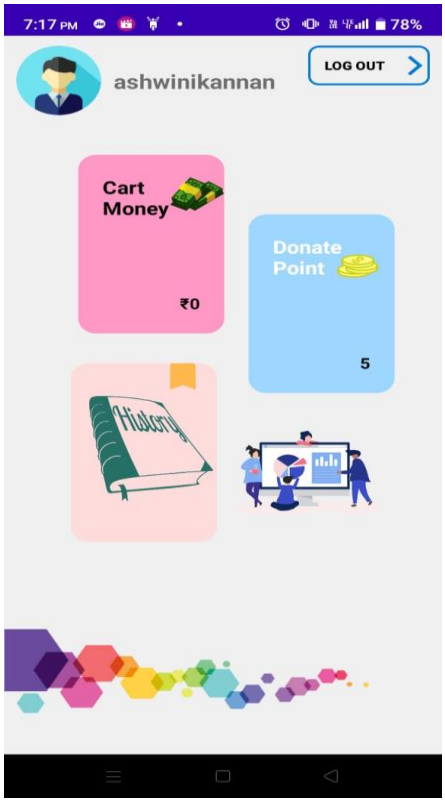


Fig 6.2 User profile

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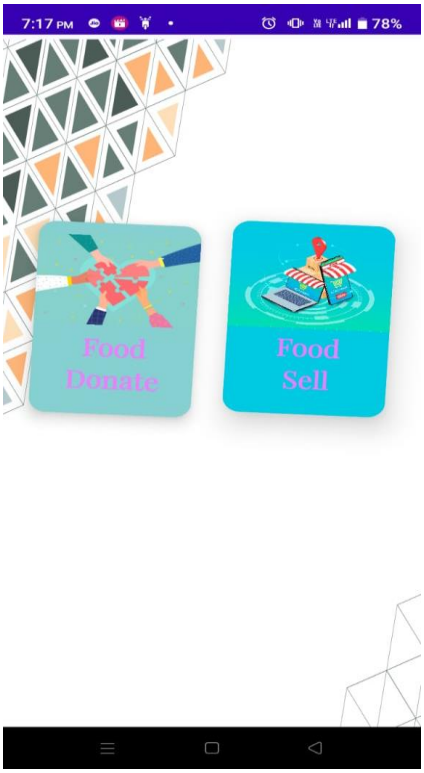


Fig 6.3 Retailer page

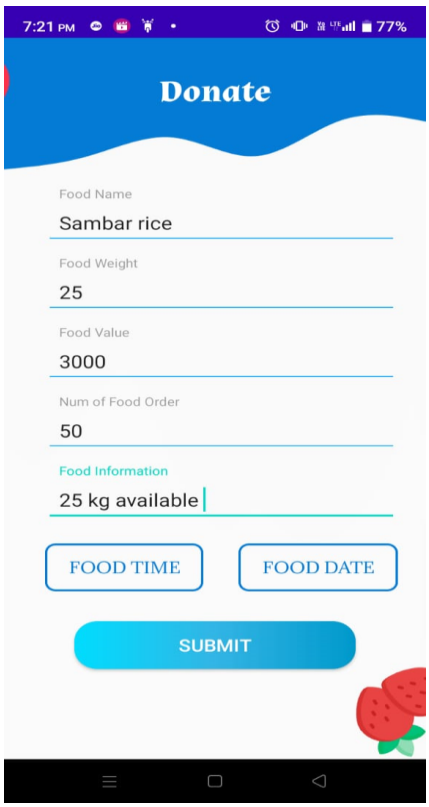


Fig 6.4 Food donate section

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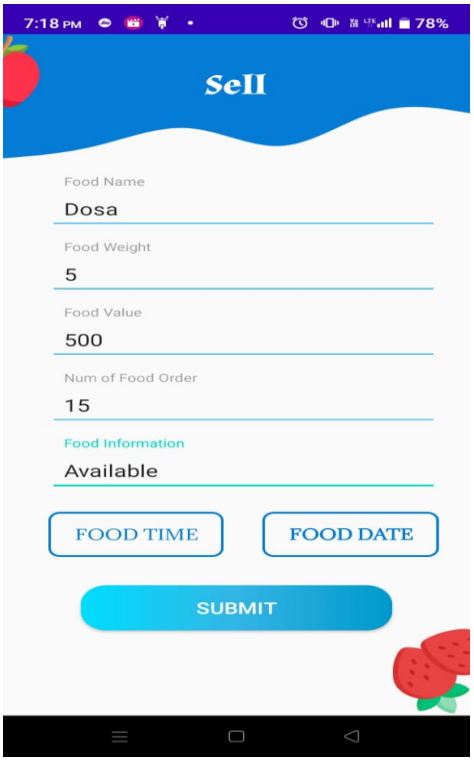


Fig 6.5 Food sell section

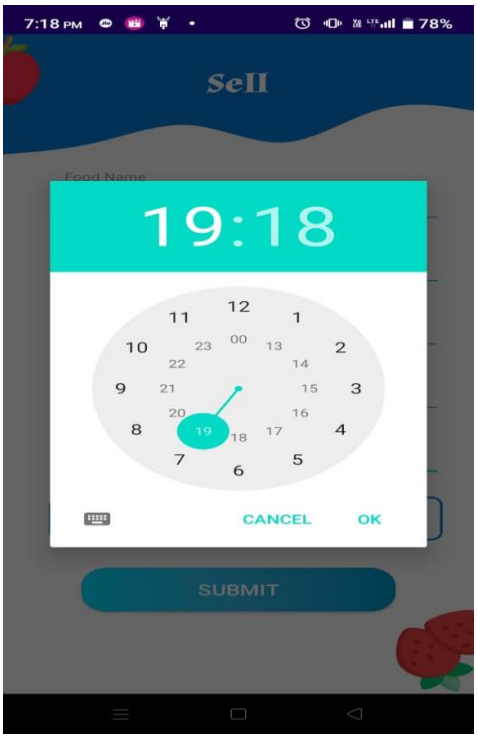


Fig 6.6 Time scheduler

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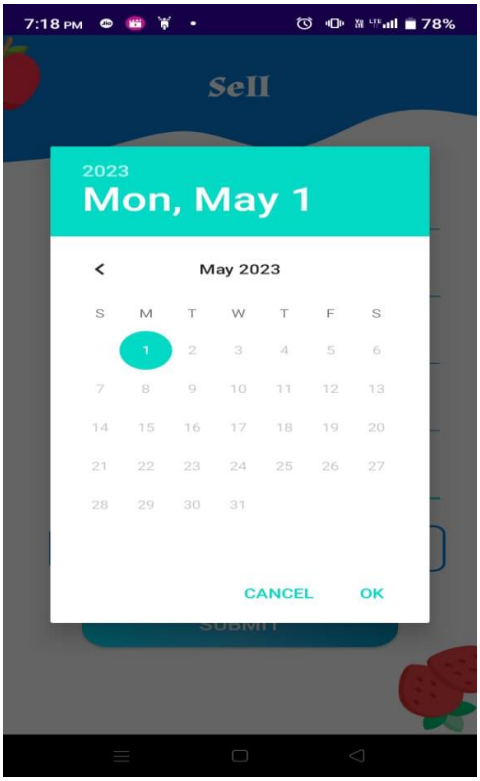


Fig 6.7 Date scheduler

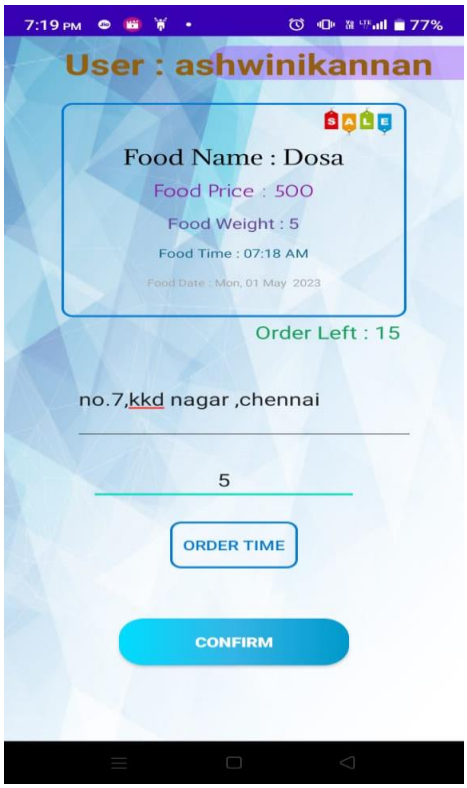


Fig 6.8 End details

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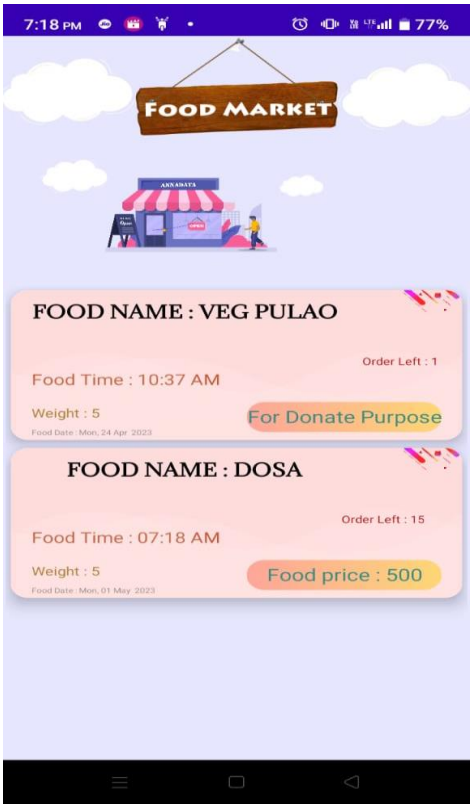


Fig 6.9 Buyer page

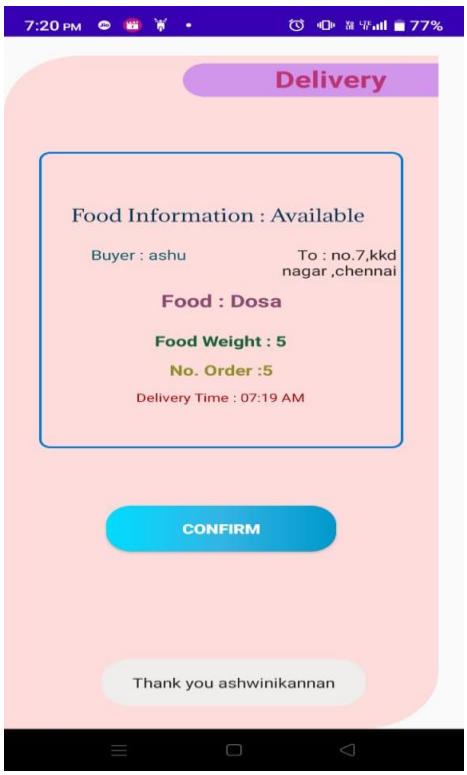


Fig 6.10 Delivery section for retailer

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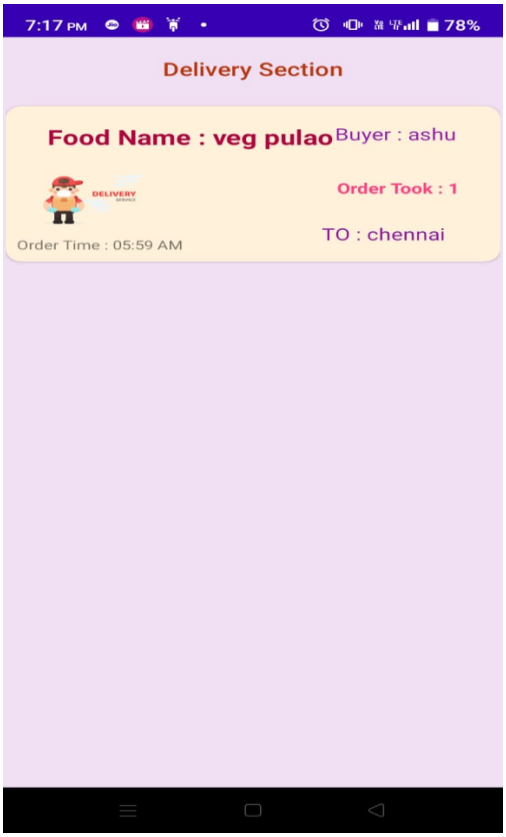


Fig 6.11 Delivery section for buyer

## VII. CONCLUSION

Waste food sharing programs have the functionality to revolutionize the manner we cope with food waste and hunger, however there may be still plenty paintings to be carried out. Within the destiny, the ones structures must incorporate new technology, in conjunction with blockchain and the net of factors, to improve transparency and traceability within the food supply chain.

Ultimately, the fulfilment of waste meals sharing applications will depend on their capacity to engage several varieties of stakeholders, from agencies and community governments to food banks and network corporations, and to build a sustainable and scalable model for addressing food waste and hunger. At the same time as waste food sharing applications have proven brilliant promise in reducing meals waste and addressing meals lack of self-assurance, there are also great ethical and crook concerns that ought to be taken into account. For example, there can be issues around legal responsibility and food protection, similarly to troubles associated with privateness and facts safety. In the future, waste meals sharing programs will need to ensure that they comply with applicable guidelines and standards, even as additionally protective the rights and hobbies of all stakeholders involved.

This will contain developing new rules and methods for meals managing and distribution, or partnering with legal and moral specialists to cope with rising demanding situations and issues. In present device there are various web sites available which has a middleman character amongst donor and recipient. The usage of this utility the donor and recipient can connect right now, donor need to deliver a request to the recipient if they receive, meals will be despatched to them, and the primary reason of the software is to reduce the food scarcity.

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