The Food Rescuer's Mission: Tackling Food Waste Together

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Abstract- *The Food Rescuer's Mission: Tackling Food Waste Together is developed in android. Food is essential things for everybody. This app is created for the old age and orphanage home. The issue of orphan child is one that has bought a lot of worries and concern in recent times. Many orphanages have been using paper logs, manual entries for tracking records. These methods make it difficult to efficiently manage orphan data and to inform decisions at different level. We analyzed and examined the public perception of having a web based and app based information system of orphanage management and also designed and implemented a web based system for management of orphanages. The system we developed keeps track of orphanage details and home in charge person full details. One more advantages in this app is Orphanage and old age in charge person can also register into this app. That person registration process is successfully finished means they can see who are all the hotels are ready to provide food for their Orphanage*

In a world where food insecurity coexists with staggering levels of food waste, innovative solutions are urgently needed to bridge the gap between surplus food and those in need. "The Food Rescuer's Mission: Tackling Food Waste Together" is a visionary project aimed at harnessing the power of technology to address this pressing global issue while simultaneously supporting vulnerable populations in old age homes and orphanages .Food waste remains a significant challenge, with billions of tons of perfectly edible food discarded annually, while millions around the world struggle to access adequate nutrition. Simultaneously, institutions caring for the elderly and orphaned children face their own set of challenges, including outdated record-keeping systems that hinder efficient management and decision-making processes.

Recognizing the interconnected nature of these challenges, our project seeks to revolutionize the waysurplus food is redistributed to those in need, with a particular focus on old age

I. INTRODUCTION

Leveraging the ubiquity of mobile technology, we aim to create an Android application that not only facilitates the donation of surplus food from hotels and restaurants but also streamlines the management of orphanages and old age homes. Through extensive research and analysis, we have identified the need for a comprehensive information system that can efficiently track in the Fight against food waste and social in equality. In this introduction, we provide an overview of "The Food Rescuer's Mission" project, outlining its objectives, scope, and significance in addressing the intertwined challenges of food waste and social

II. IDENTIFY,RESEARCHANDCOLLECT IDEA

AuthorName	TitleName	Description
Dr.C.K.Gomathy, V.JaswanthReddy, P.Venkatesh	A Study on Ecommerce Agriculture	Making a distinct platform for farmers helps them to share some information about agriculture. Technology is existing everywhere from well equipped cities to a small village in the current generation. As we all knew that Farmers are the backbone of our country and without them, we can't complete a day.
NeelamChawla, Basanta Kumar	E-Commerce and ConsumerProtection in India: The Emerging Trend	This study analyzes the current Indian legal framework that protects onlineconsumer

		interests. E-commerce has emerged as a transformative force in the agricultural sector, offering numerous advantages to stakeholders throughout the supply chain.

III.WRITE DOWN YOUR STUDIES AND FINDINGS

Food Waste Statistics: Extensive research revealed alarming statistics regarding food waste globally. Reports indicate that approximately one-third of all food produced for human consumption is lost or wasted annually. This equates to nearly 1.3 billion tons of food being discarded, while millions suffer from hunger and malnutrition worldwide.

Challenges Faced by Institutions: Old age homes and orphanages encounter numerous challenges in managing their resources efficiently. Outdated record-keeping systems often lead to inefficiencies in inventory management, making it difficult to track donations, plan meals, and minimize waste.

Lack of Connectivity: There is a notable lack of connectivity between surplus food providers, such as hotels and restaurants, and institutions in need of donations. This disconnect contributes to food waste as edible surplus often goes unutilized due to logistical constraints.

Importance of Collaboration: Recognizing the complexity of the issue, it became evident that addressing food waste and supporting vulnerable populations requires a collaborative approach. By fostering partnerships between food donors, institutions, and community members, greater impact can be achieved in reducing waste and alleviating food insecurity.

Potential of Technology: Leveraging mobile technology presents a promising solution to bridge the gap between surplus food and those in need. A dedicated Android application offers a convenient platform for food donors to notify nearby institutions of available surplus and for institutions to efficiently manage donations.

Need for Information Systems: Developing a comprehensive information system emerged as a critical need to facilitate efficient food redistribution. This system would encompass features such as institution profiles, donation tracking, communication channels, and reporting tools to streamline operations and foster transparency.

IV. PROPOSEDSOLUTIONS

The system flow diagram (SFD) shows the flow of information through a food delivery system. The system consists of the following entities:

Trust manager: The trust manager is responsible for registering trusts, maintaining the trust database, and authenticating trust providers.

Food provider: The food provider is responsible for adding trust addresses, trust population, and trust food availability to the trust database. They also send food to trusts and receive confirmation that the food has been received.

Trust: A trust is a group of people who come together to receive food deliveries.

The SFD shows the following steps in the food delivery process:

- The trust manager registers anew trust by providing the trust name, location, and type.
- The trust manager authenticates a trust provider by verifying their credentials.
- The food provider adds a new trust address by providing the trust name, location, population, and food availability.
- The food provider searches for trusts in their area.
- The food providers elects a trust and sends the food availability request.
- The trust views the food availability request and sends confirmation to the food provider.
- The food providers ends food to the trust.
- The trust receives the food and sends confirmation to the food provider.

Trust address: This data flow contains information about the trust's address , such as the street address, city, state, and zip code.

Trust population: This data flow contains information about the number of people in the trust.

Trust food availability: This data flow contains information about the type of food that is available to the trust.

Food availability request: This data flow contains are quest from the food provider to the trust to deliver food.

Confirmation: This data flow contains a confirmation from the trust to the food provider that the food has been received.
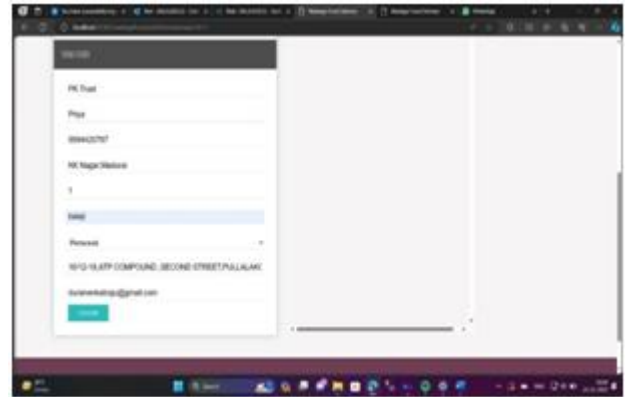
The SFD also shows the following data stores:

Trust data base: This data store contains information about all of the trusts in the system.

Trust details: This data store contains information about the trust, such as the name, location, and type.

Trust address: This data store contains information about the trust's address, such as the street address, city, state, and zip code.

V. RESULTANALYSIS

EMAIL SENDING MODULE

If the food provider satisfied with the particular trust's records of the searched data. Then they can able to send the short message service to the trust manager about the excessive food availability.

TRUST MODULE

Trust module consists of registration section. Through the registration section trusts can register themselves like members. At the time of registration, manager of the trust/old age home/orphanage have to enter total number of peoples living at their own.
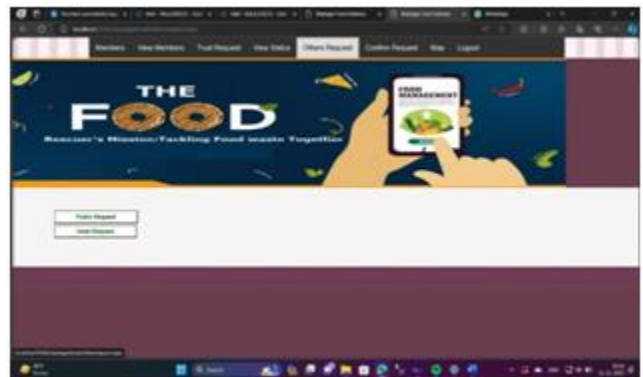

Confirmation alert

Trust manager got the sms about the excessive food availability and he/she have to make the confirmation message to the food provider to receive the food.Like that also, after received the food trust manager have to send the received confirmation message to the food provider in the product.

Food provider module

Food provider module is used by the marriage hall or hotel supervisors one who provide excessive food from the marriage or any other parties or from hotels to the trust or old age home or orphanage.

VI. CONCLUSION

The main objective is to distribute the food to the trust members and here hotel or public have to register and send the requirements to the trust incharge. The trust incharge person is confirmed the request and forward that confirmation alert message to the hotel or public registrated phone no. Suppose if unknown public is ready to send the food but the trust cannot know the correct place means in that situation there is map option of the trust person to see the correct location. The scope this project is to minimize the manual records and proper communication between the trust and providers.

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