Application for Ngo Food Supply Chain

Yash V. Shriwas[1], Gaurav Balapure[2], Prof. Vaishali Patil[3]

[1,2,3]Master in Computer Application, Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur-441108

ABSTRACT:

Food is a common problem in our society. Food management is crucial since it can improve our environmental and economic sustainability. We have identified the use of mobile technology to reduce food management and built an android mobile application that allows individual user or restaurants to donate and share their foods and leftovers with people in need. This app will enable users to register, login, view items, add items, add items to cart, remove an item from the cart, and log out. This app is using the sql storage and real-time database. Any user in need can see all the food images donated by different users and add it to his or her cart. SWIGGY and ZOMATO have emerged as the biggest players in online food ordering and delivery marketplace in India. Some of the other major players operating in the Indian market are, Faaso's Food Services Private Limited, Food vista India Private Limited, Food Panda and Uber EATS, etc. Like these we are making system for remaining food of our home or programme , these food we can supply to ngo through the application.

Keyword: NGO, Food ,Donor,Worker etc.

OBJECTIVE:

- Benefits will be both the NGO (reducing food wastage), and the needy
- Keep track of wastage food for restaurant
- User can play role in saving food wastage and help the needy.
- The system is very effective and convenient to use.
- It reduces the use of manpower to a great extent.
- The system is secured and gives only authorized access.
- It saves cost and time.
- Maintaining Records.
- Here we will get the latest information about the elder people and staffs.
- Admin easily generate reports.
- To supply inventory on time.
- To average out demand flunctuation.
- To meet unforeseen future demands.
- To avoid shortage of stock.

EXISTING SYSTEM

The existing system for managing the food supply chain in an NGO setting often involves a combination of processes and mechanisms aimed at sourcing, storing, and distributing food resources to target

communities. Some components of the existing system may include:

Drawbacks of the Existing System :-
- Manual entry consumes more time.
- It is difficult to maintain bulk of record in manual.
- Restrictions in the users.
- Not easy to prepare the daily reports.
- Lack of accuracy and error prone.
- Overall efficiency is less.
- Lot of paperwork.
- Non-secure.
- No perfect maintenance of report.
- No method to trace details
- Human errors
- The manual system is too slow
- Searching is more time consuming

Advantages
- Reducing Food Waste: Implementing strategies to minimize food wastage and loss throughout the supply chain, ensuring efficient utilization of available resources. Online scheduling reduces burdensome administrative tasks for staff
- Addressing Food Insecurity: To alleviate hunger and provide access to nutritious food for vulnerable populations, including low-income families, children, the elderly, and individuals affected by crises or disasters.
- Nutritional Support: To ensure that beneficiaries receive adequate and balanced nutrition, aiming to prevent malnutrition and related health issues.
- Emergency Relief: Providing immediate food assistance during emergencies, such as natural disasters, conflicts, or pandemics, to affected populations in the form of food parcels, ready-to-eat meals, or food vouchers.
- Reduces landfills.

SCOPE:

NGO Operations and Challenges: Review literature specific to NGOs operating within the food supply chain. Understand their challenges, successes, and areas where technology integration has made a difference.
- **Food Security and Access:** Explore research on food security, accessibility, and nutritional aspects, especially concerning vulnerable populations. Understand how supply chain inefficiencies affect these factors and potential solutions proposed in academic or research papers.
- **Regulations and Compliance:** Investigate literature on food safety regulations, compliance standards, and ethical considerations relevant to NGO-operated food supply chains. This might include studies on legal frameworks, quality control measures, and ethical sourcing practices.

- **Sustainability and Environmental Impact:** Look into research on sustainable practices within food supply chains, including reducing food waste, environmentally friendly packaging, and sustainable sourcing. Explore how these practices align with NGO goals.
- **Case Studies and Best Practices:** Analyze case studies or success stories of NGOs or organizations that have effectively managed their food supply chains. Understand the strategies they've employed, challenges faced, and key takeaways.

TECHNOLOGY:

NAME	VERSION
Android studio	3.4.2
Mysql	5.6.22
PHP	5.6.21
JDK	jdk 11
XML	1.0

SYSTEM ANALYSIS AND DESIGN :

We make system for Ngo People , We make these Application in android for that we used java,xml language for frontend and php for backend and we make these database in XAMPP server. In our system mainly two side such as 1) Donor 2)Worker

1. **Donor:** Donor can donate their food with the help of these application. Firstly Donor can register self after that their username and password has been generated.with the help of these donor login and after login donor can able to see how many ngo are nearer to him/her and how many people are their in these ngo. So using these all information donor contact to the worker and can supply their food.

2. **Worker:** Worker can accept the food of donor . worker have also registration, with the help of these registration worker generate their username and password. With the help of these they can login and enter the all information about their ngo and accept call of the donor And admin can able to generate certifate to donor.

Their main aim was to find out the student's mindset, behavior and key factors that drive them to go for online food delivery services as their first preference for food. The result that they came out states that students can order their desired food online anytime at much precise cost, they can save a lot of time during exams when they simply have to order food online instead of going out to eat and then waste a lot of time, internet saves a lot of time as in during busy schedule as just get hold of your mobile application and order food instantly without timewaster.

Module Description

The system comprises of 3 major modules with their sub-modules as follows:

WORKER:

1. Register: User can register using personal details.
2. Login: User can login in his personal account using id and password.
3. Restaurant:
   - List restaurant: List all the restaurants available
   - Add/Register New Restaurant
4. NGOs:

- View All NGOs
- Add/Register New NGOs

DONOR:
1. Register: User can register using personal details.
2. Login: User can login in his personal account using id and password.
3. Profile:
- View Profile/Restaurant details
- Change Password
1. History:
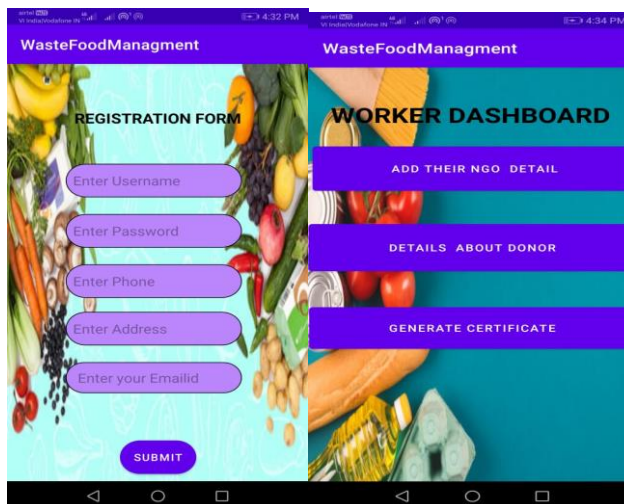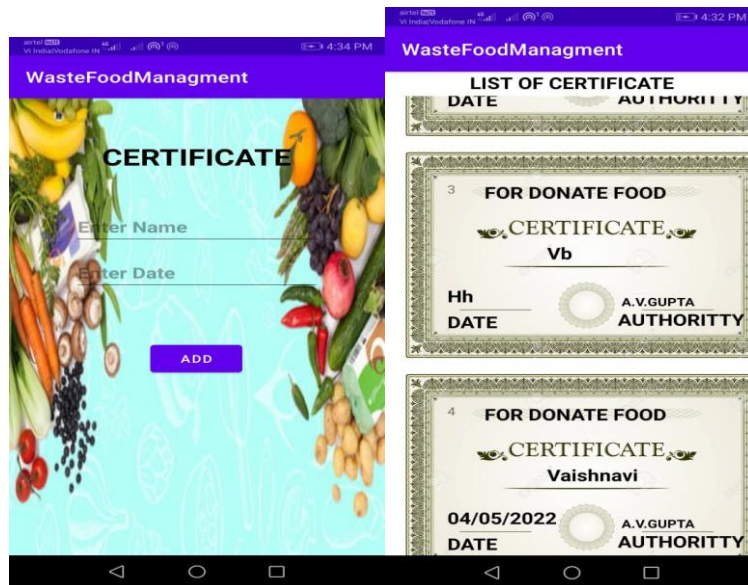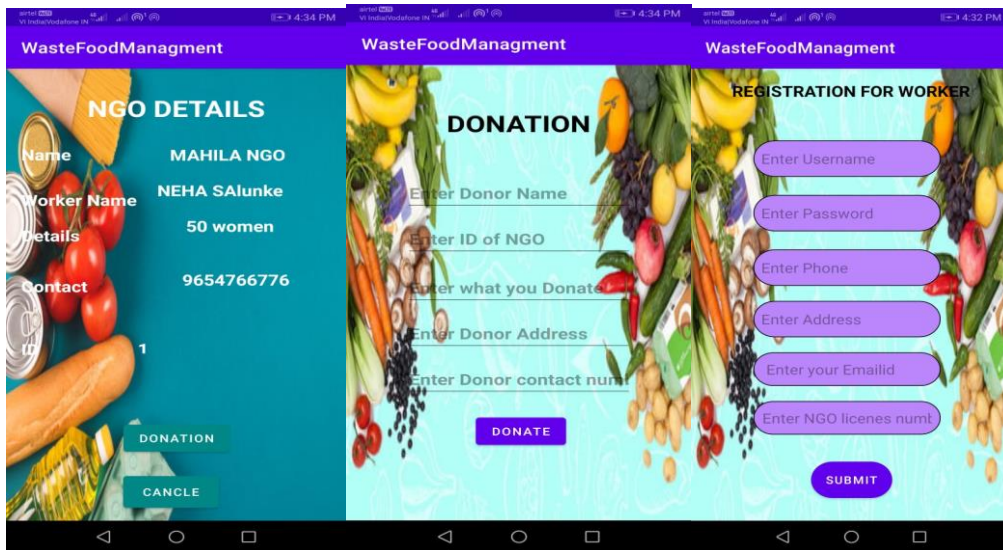- View Orders history
▪ Accepted
  ▪ Pending
  ▪ Confirm
2. Food:
   • Add new food items to restaurant

NGOs:
1. Register: User can register using personal details.
2. Login: User can login in his personal account using id and password.
3. Details:
   • View Other NGOs Profile
   • View restaurant requests
4. Add Request:
   • Request food for NGOs from restaurant
   • Assign employee for delivery of the food
5. Manage Employees:
   • Add new employee
   • Update employee details

Dig: Module of System

CONCLUSION:

Donating to the needy is a great way to improve the conditions in your neighbourhood or community. Donating food to the worthy people or organizations **helps counter poverty, hunger and at the same time, it can improve harmony, friendliness, and trust among residents**. "... **reducing the amount of food that we waste by just a third could feed all the food-insecure people in this country**," says Emily Broad Leib, director of the Food Law and Policy Clinic at Harvard Law School.

REFERANCES:

1. Google for problem solving
2. W3 School
3. http://www.phpworld.com/phpworld/jw-01-1998/jw-01-Credentialreview.html
4. Head First php 2nd Edition
5. http://www.jdbc-tutorial.com/

6. Software Design Concepts by Apress
7. https://www.tutorialspoint.com/java/
8. http://www.phptpoint.com/java-tutorial
9. https://docs.mysql.com/php/tutorial/
10. http://www.wampserver.com/en/
11. http://www.tutorialspoint.com/mysql/
12. httpd.apache.org/docs/2.0/misc/tutorials.html