

# Effective Utilization and Management of Left Over Food

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**R.R. INSTITUTE OF TECHNOLOGY**

ISE

Student(s) Name:

1. Shashank S
2. Kushal c
3. Dhanya Shree M
4. Rakshitha H S

Guide(s) Name:

1. Dr. Naveen M

# OBJECTIVES

The purpose of this development is to limit the wastage of food in all over world.

Many people tend to throw the leftover food at the end of the day even though the food is perfectly fine to be eaten, which means that huge amounts of food are wasted .

The main objectives of our proposed system are as follows:

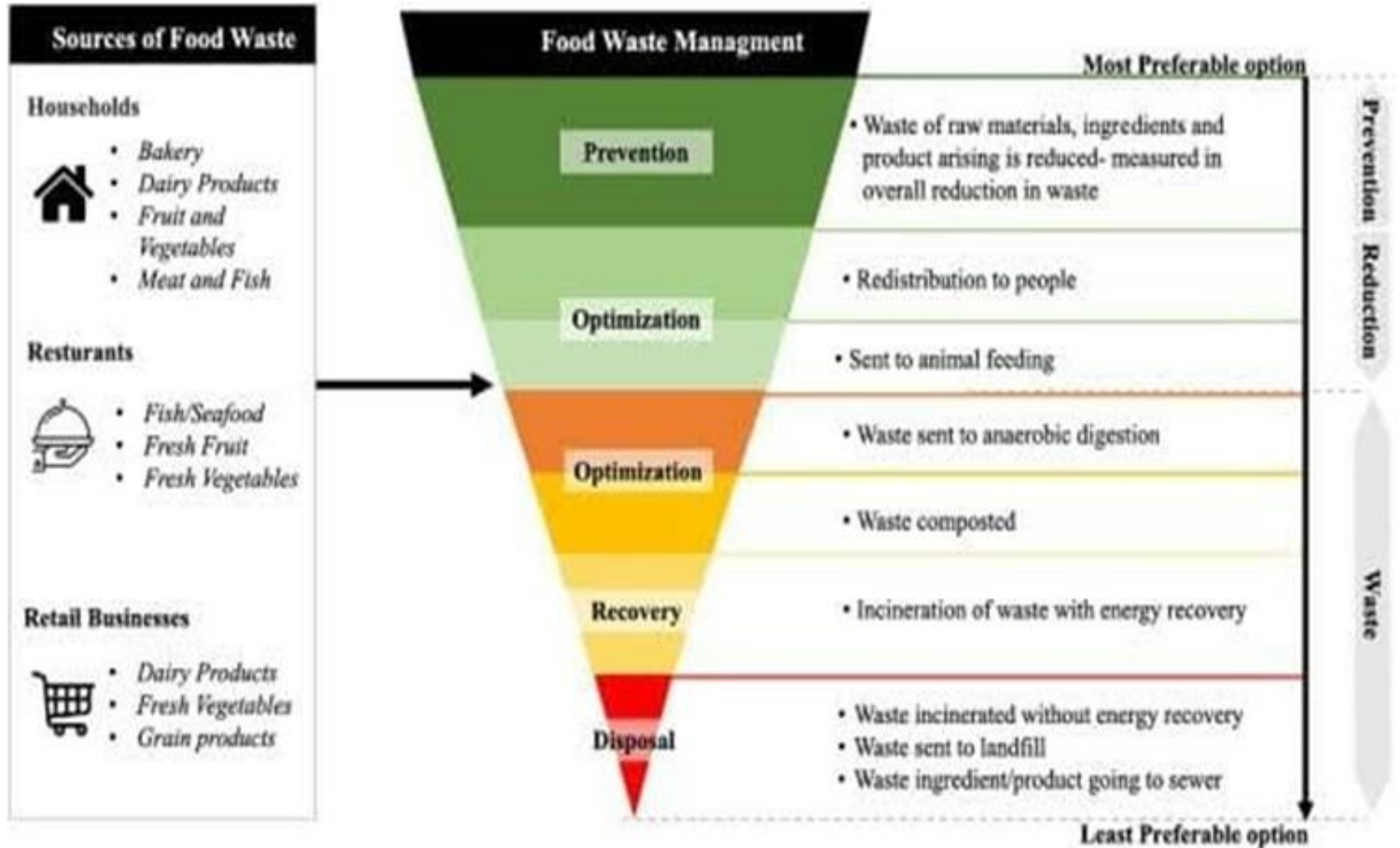
- ❑ Monitoring the food wastage reduction management.
- ❑ Providing a smart technology for food wastage reduction system.
- ❑ Avoiding food wastage.
- ❑ Reducing human time and effort
- ❑ Resulting in healthy and waste ridden environment.
- ❑ The majority of the population today uses smart phones with active internet connection, which is the basic requirement for this product to function properly.
- ❑ This project falls under the category of embedded systems and android applications

# METHODOLOGY

Mobile application technology is beneficial for food waste management. The app aims to encourage better food management. Our proposed solution should reduce food wastage by facilitating food sharing in community using mobile technology. This work is an initial step towards designing a better system to reduce daily food waste.

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In Food Waste Management System, we have a system where the donor will request to take the excess food or leftovers by filling up the details of the food. An employee will be assigned by NGO to pick the order, he picks the order and deliver it to the right place. Delivered message is reflected to donor.



# WORK PLAN

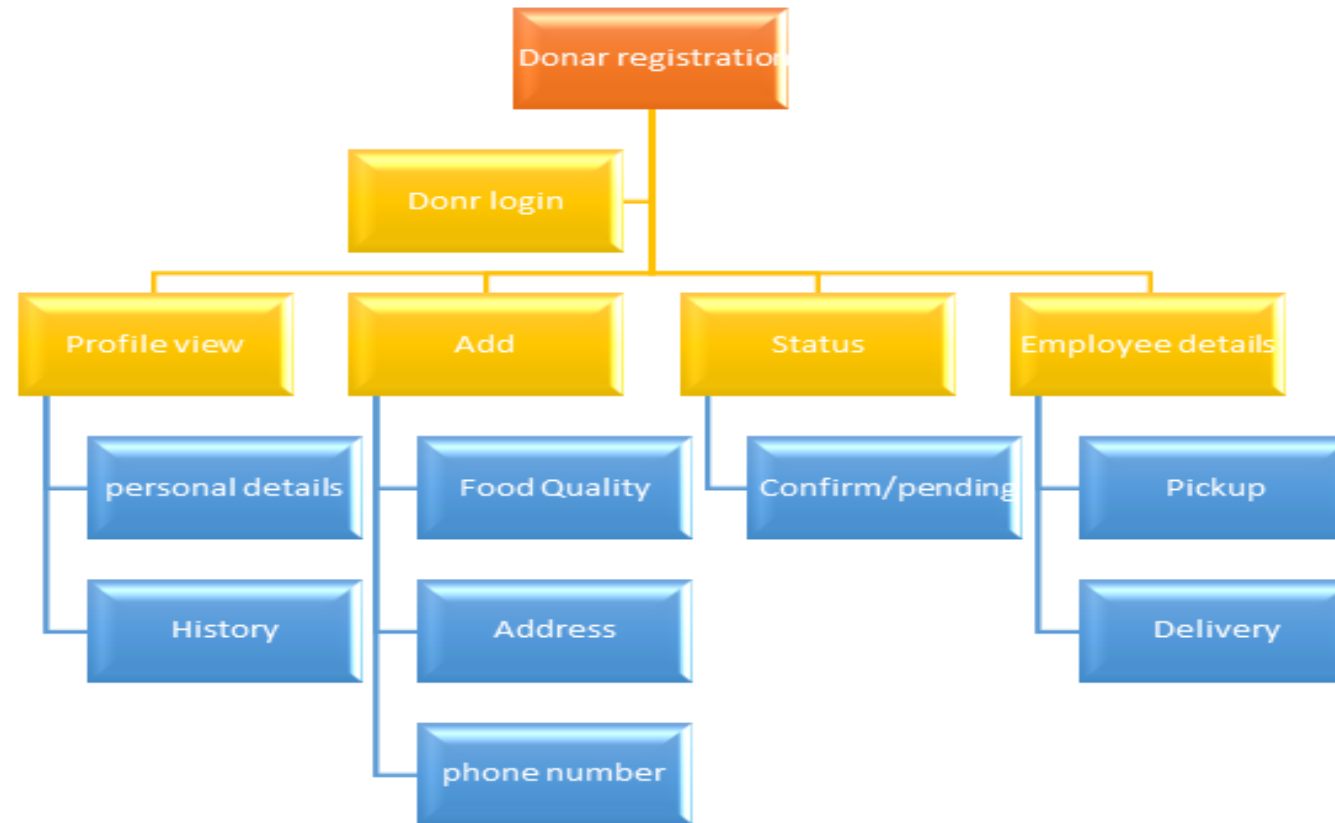
- Wasting food is a common problem in our society. Food waste management is crucial since it can improve our environmental and economic sustainability.
- We have identified the use of mobile technology to reduce food waste management and built an android or web application that allows individual user 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. 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.

## Advantages

1. Extending our app to have many types of donating users either from organizations such as restaurants, or a family or a single user.
2. Adding the location facility to our apps. The donating user should specify the location of the shared food.
3. Adding the time and date of each meal shared by users

# SUMMARY OF PROGRESS (DESIGN, EXPERIMENTS, RESULTS)

## ARCHITECTURE DIAGRAMS

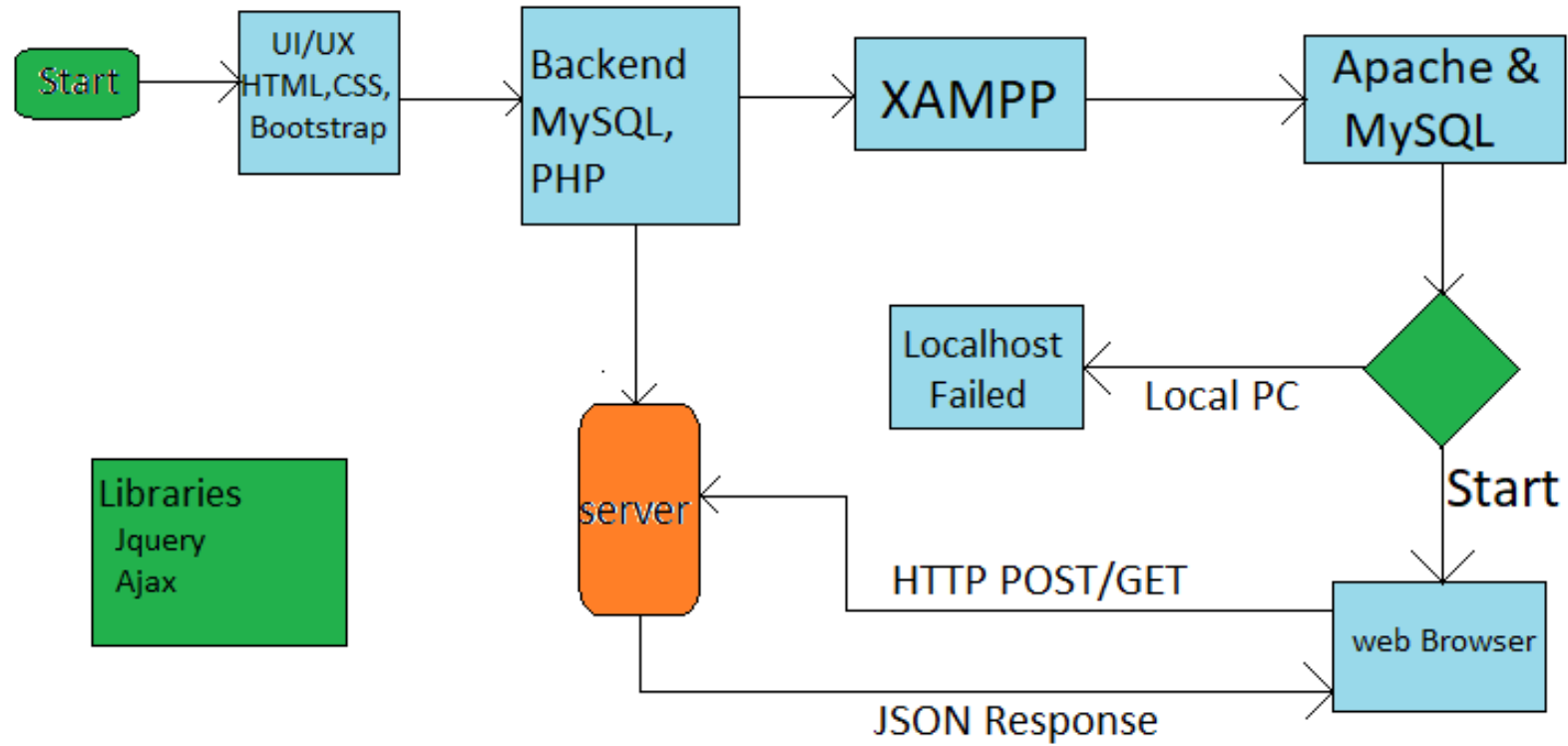


**Donar System Architecture**



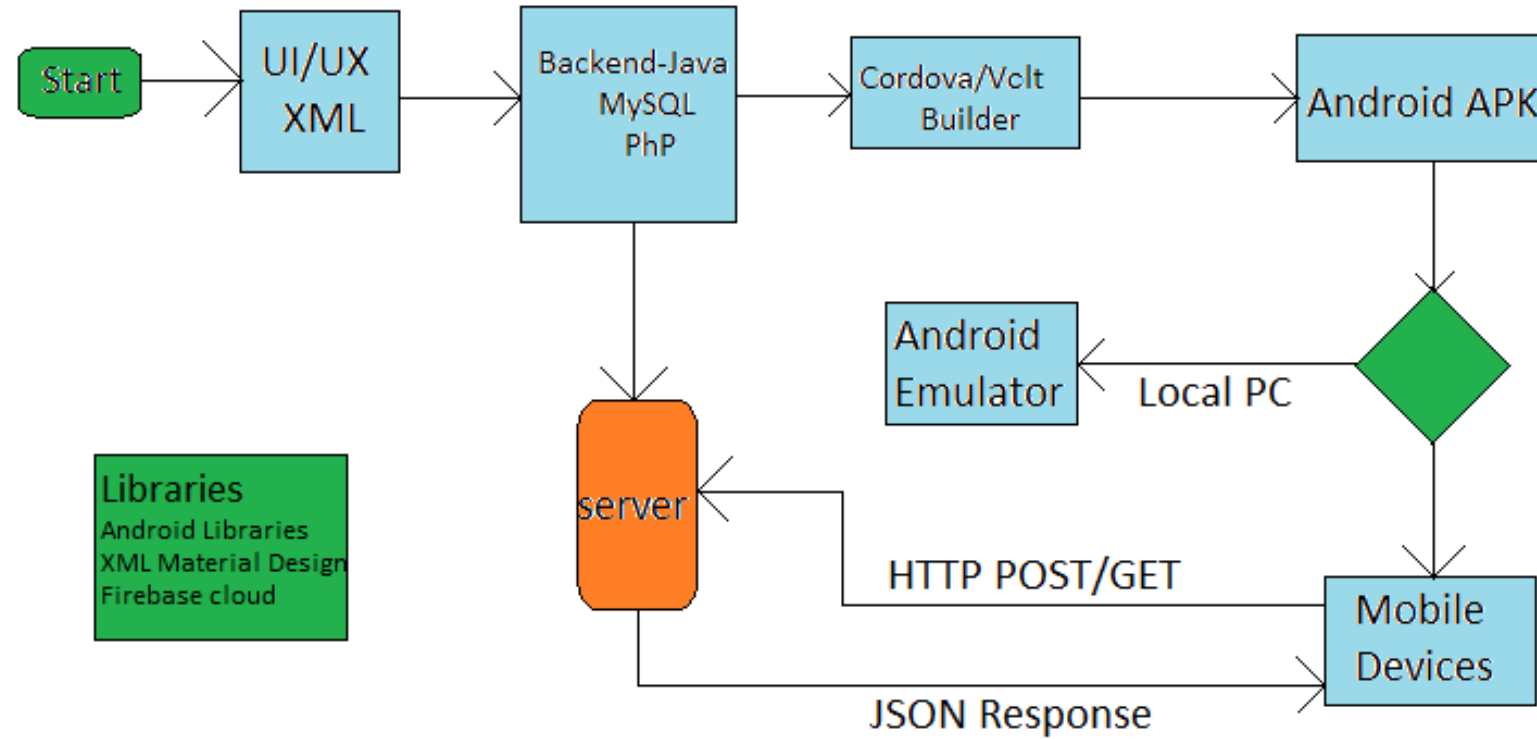
## NGO's system architecture

## WORK FLOW DIAGRAM FOR WEB APPLICATION





## WORK FLOW DIAGRAM FOR ANDROID



# SCIENCE & TECHNOLOGY COMPONENT / INNOVATIVENESS / NOVELTY OF THE PROJECT

- Mobile application technology is beneficial for food waste management.
- Our proposed solution should reduce food wastage by facilitating food sharing in India community using mobile technology.
- This work is an initial step towards designing a better system to reduce daily food waste.
- Using this donor can donate food with ease.
- NGOs can check for availability food, its location and time of meal prepared.