

# HUMAN COMPUTER INTERACTION

## UE18CS348

Project Name: Food Connect

### Team Members

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# PROBLEM STATEMENT

Hotel industry is witnessing the tremendous growth these days in India. Apart from having a number of opportunities, hotel industry is facing a several problems, wastage of food on mass level is one of them. Managing the huge amounts of waste generated is one of the major concern. The generation of this waste and managing it is not only a financial problem but environmental problem too. Since the waste produced here is bio degradable in nature and require large landfills to discard a lot of resources are again used to the same which basically increase the cost managing it. There are various steps where food waste is generated which involves costs such as disposal and transport of waste and labor costs.

Hunger is a global challenge. It is often erroneously assumed that hunger stems from lack of food. However, if we probe the root cause of hunger, the answer is far more complicated. Though the global food production is enough to feed all human beings, still there are approximately 815 million people suffering from chronic undernourishment. India produces enough food to feed all its citizens, yet it is ranked 100 among 119 countries in the Global Hunger Index rankings.

# PROBLEM STATEMENT

This is how our project helps in food waste and hunger problem:

Our present plan of this project is an attempt to make the hoteliers aware about the food waste management practices in hotel industry in India by compiling the available resources and recording responses from the industry food handlers by field work questionnaire. And try to connect the needy people with hoteliers so that hoteliers can donate the left over healthy food to the ones who are in need of food. It will not only reduce their productivity cost but also work for the sustainable development.

**Food Connect** is an app in which the Receiver creates a request with the number of people they need to feed and the donator(hotel management) can donate the left over healthy food by filling out a form with the food items they're going to send to the receiver that requested food.

The main goal of this project is to alert the people about the food waste problem the country is going through and try to minimize or control the production of waste.

# CONCEPT VIDEO

[https://drive.google.com/uc?id=1QYeiPnxd5h\\_zd-2B2j81bivBPfb5ubOJ&export=download](https://drive.google.com/uc?id=1QYeiPnxd5h_zd-2B2j81bivBPfb5ubOJ&export=download)

# NEED FINDING

As we know, the food industry has become a massive growth and with that the food wastage too. As per our research, every year in India about 67 million tonnes of food is wasted. There are so many people who are starving without food and who are dying out of hunger. This issue needs to be addressed in a proper way. So we came up with a app which reduces the food wastage by collecting the leftover food and distributing it to the people in need.

Here is an article on Food wastage in India:

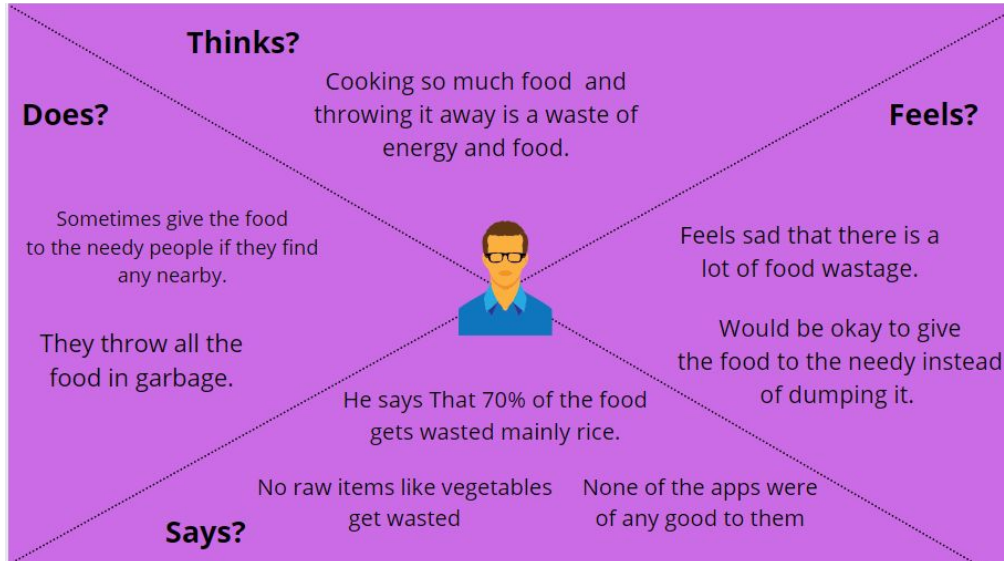
<https://krishijagran.com/agriculture-world/how-much-food-is-wasted-in-india/>

Target Audience: Restaurants/Catering services who have left overs and Ngos/Orphanages' that are in need of food.

# EMPATHY MAP

Interview 1:

<https://drive.google.com/drive/folders/1SNMwAcwGGJxFM4Cxvs4KaQCGuR9PeraX?usp=sharing>



## Questions:

- 1)How much leftovers do you have in your restaurant?
- 2)What gets wasted more?Cooked food or raw food?
- 3)What do you do with the leftovers?
- 4)Do you have any app that helps you distribute the food to the needy.

# EMPATHY MAP

Interviewer 2:

Rahul: <https://drive.google.com/drive/folders/1SNMwAcwGGJxFM4Cxvs4KaQCGuR9PeraX?usp=sharing>



## Questions asked:

1) Do you have leftovers in you restaurant?

2)What gets wasted more?Cooked food or raw food?

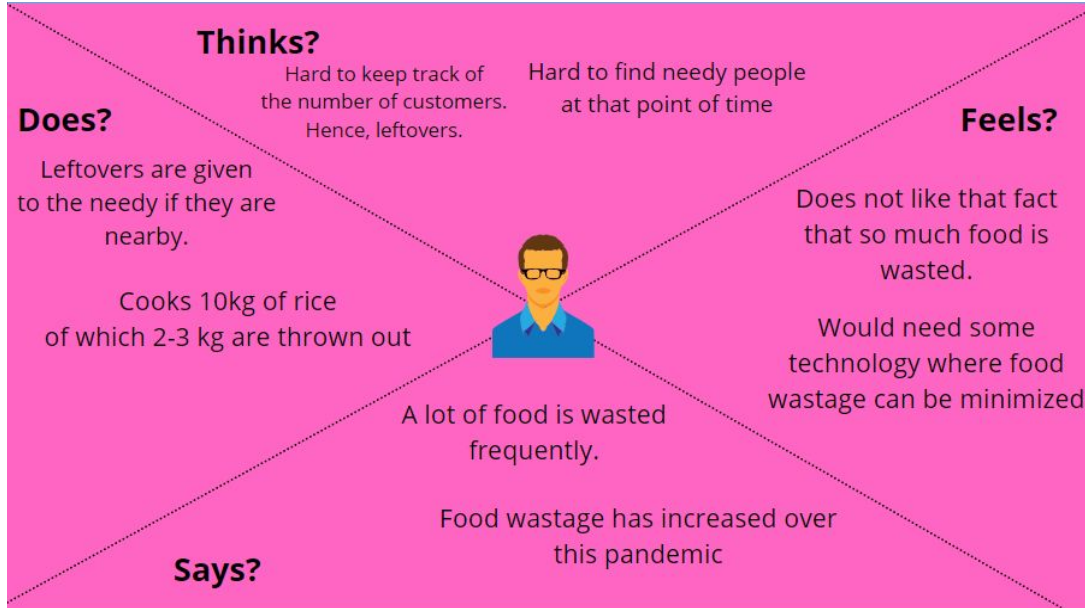
3)What do you do with the leftovers?

4)Would you like an application by which this leftovers will be donated to the needy?

# EMPATHY MAP

Interview 3:

<https://drive.google.com/drive/folders/1SNMwAcwGGJxFM4Cxvs4KaQCGuR9PeraX?usp=sharing>



## Questions:

- 1) What is the amount of food that you prepare in a day?
- 2) How much customers do you get?
- 3) What do you do with the leftovers?
- 4) Is technology helping out with such wastage?



# LOW FIDELITY PROTOTYPE

FOOD CONNECT APP  
WHERE THE LEFTOVERS  
ARE DELIVERED TO THE  
PEOPLE IN NEED

LOGIN

SIGN UP

NAME

ADDRESS

PASSWORD

SIGN UP

I'M SIGNING UP TO BE A....

FOOD DONATOR

FOOD DELIVER

FOOD RECEIVER

CONTINUE

HI, FOOD RECEIVER!

How many people do you  
need to feed?

CONTINUE

# LOW FIDELITY PROTOTYPE

BACK

HI, FOOD DELIVER!

Potential Job Detail

Food Receiver

Delivery Person

Item.	Rice.	Bread
Quantity	2Kg.	10 slices
pk. ?	no	no
MFD.	10/4/21.	10/4/21
Expiry.	12/4/21	12/4/21

ROUTE

Take Job

BACK

HI, FOOD DELIVER!

AVAILABLE JOBS

Food Donator

Food Receiver

Deatils

DELIVERIES IN PROGRESS

Food Donator

Food receiver

Mark Complete

YOUR PAST DELIVERIES

Food Donator

Food Receiver

Rating

BACK

HI, FOOD DONATOR!

YOUR PAST DONATIONS

Food Receiver

Delivery Person

Item.	Rice.	Bread
Quantity	2Kg.	10 slices
pk. ?	no	no
MFD.	10/4/21.	10/4/21
Expiry.	12/4/21	12/4/21

BACK

BACK

FOOD RECEIVER IS IN NEED!

What will you donate? 

Add new item

Name

Quantity

Pre pkgd?

Expiry

MFD

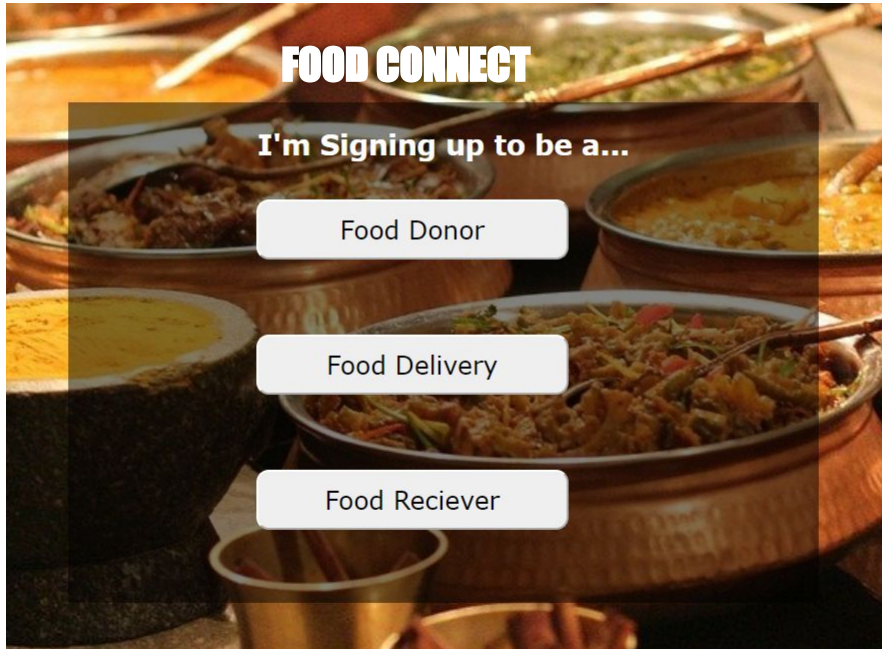
When will you donate?

Date

Time

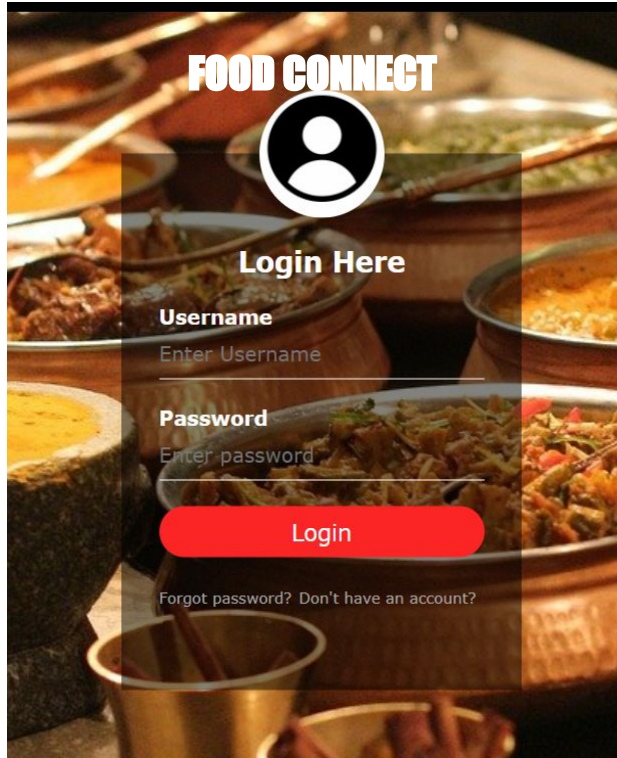
Schedule a Donation

# HIGH FIDELITY PROTOTYPE

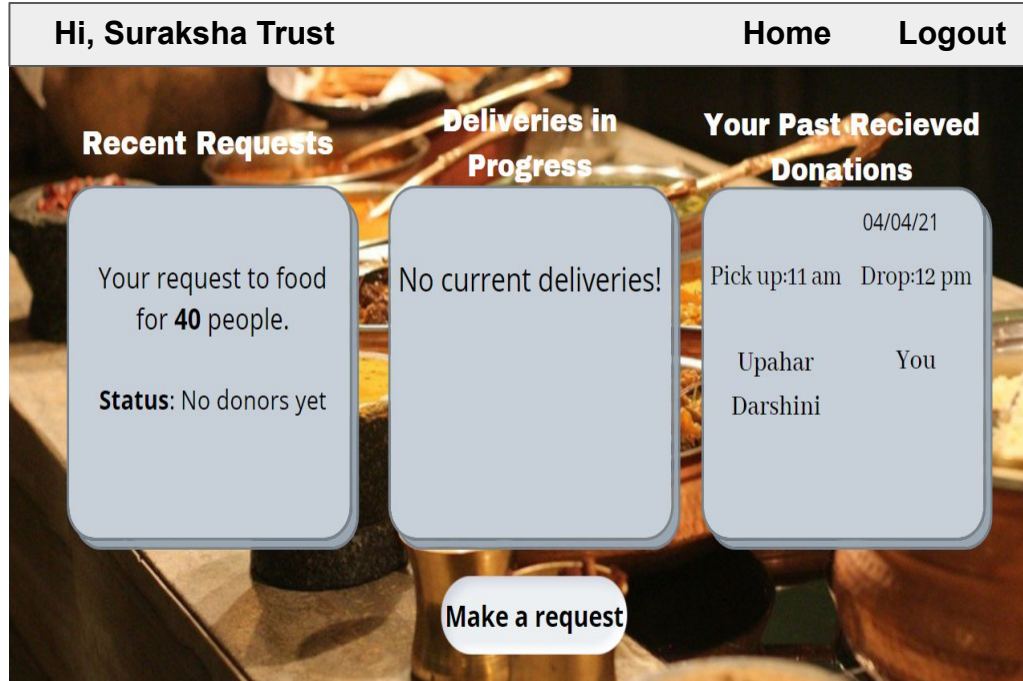


Food Connect is an app that helps in the minimal wastage of food in restaurants by collecting leftovers from restaurants and distributing it to the people in need of it.

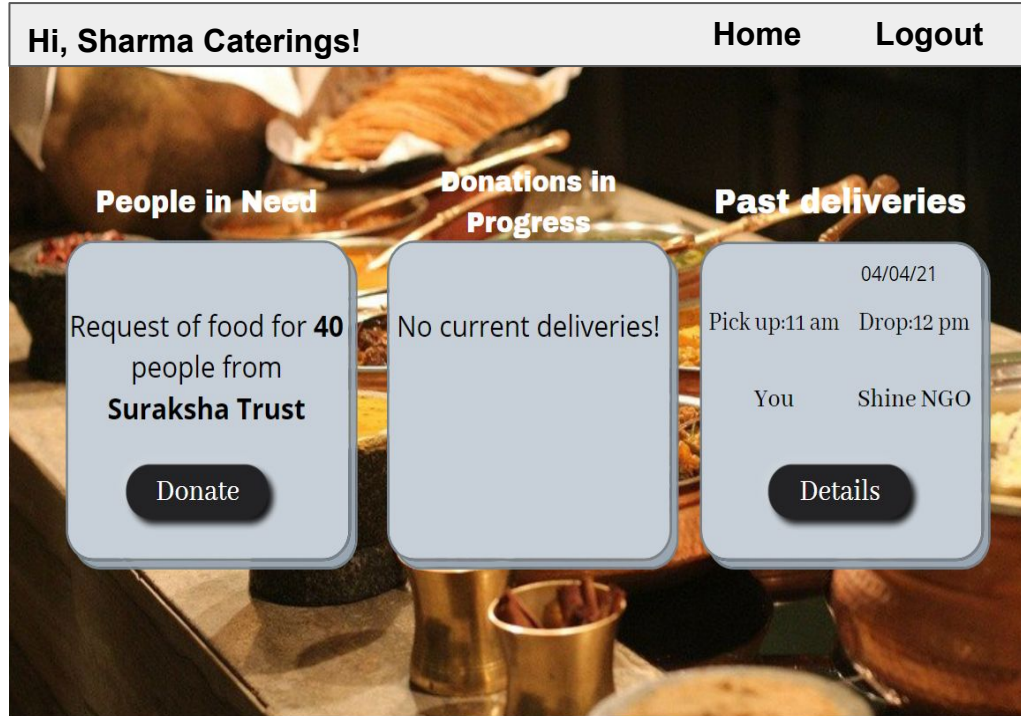
This is the signup page of the application. The user can sign up in any 3 categories. Ex, restaurants/catering services can sign up to be food donors and NGOs and other people in need can sign up to be food receivers. While, anyone can volunteer and sign up to be food delivery person.



This is the login page of our application, after the Signup page, you will be directed to the login page Where you can enter your credentials and login in to the app.



This is the page that the user gets redirected to if he chooses to be a food receiver. The receiver can make a request for food as to how many people need to be fed and can submit it. And this gets updated to all the donors. Once it's accepted by any donor, the food will be sent to the receivers



This is the page that the user will be directed to if he is a food donor. So once a request is made, the food donors get updated with it and the donors can donate if they have leftovers. Once, the user clicks on donate button, he will be redirected to the food listing page



Hi, Sharma Caterings!

HomeLogout

Add a new item

Name:

Rice

Curry

Quantity:

10kg

8kg

Pre packed:

Yes

Yes

Expiry:

05/04/21

05/04/21

MFD:

04/04/21

04/04/21

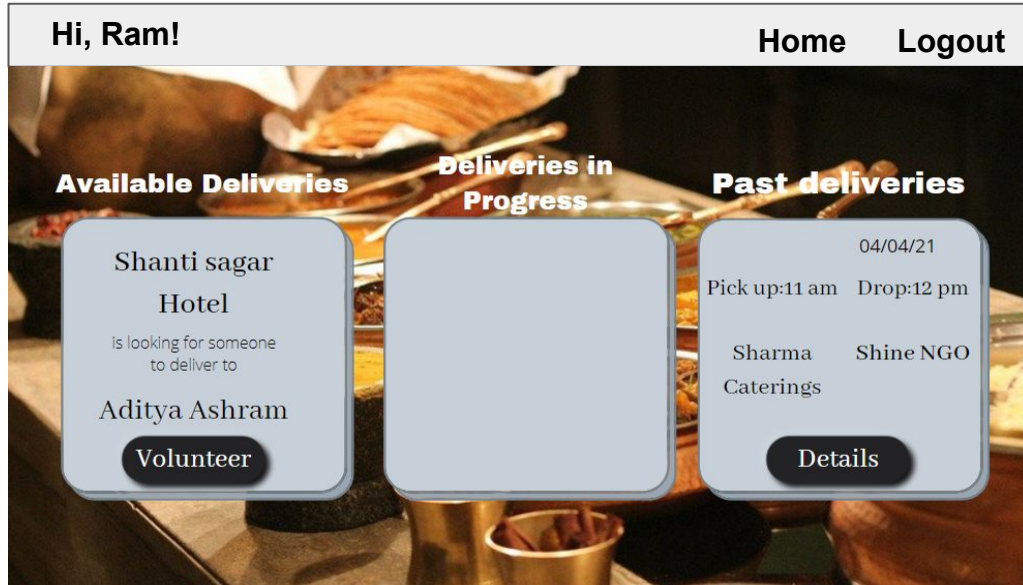
When will you donate?

04/04/21

9:00 om

Schedule Donation

Once the donor clicks on the donate button, he will be directed to this food listing page. In this he can list out whatever he is donating. Once this is done, the food receivers will get updated with the donation and also the food delivery people too.



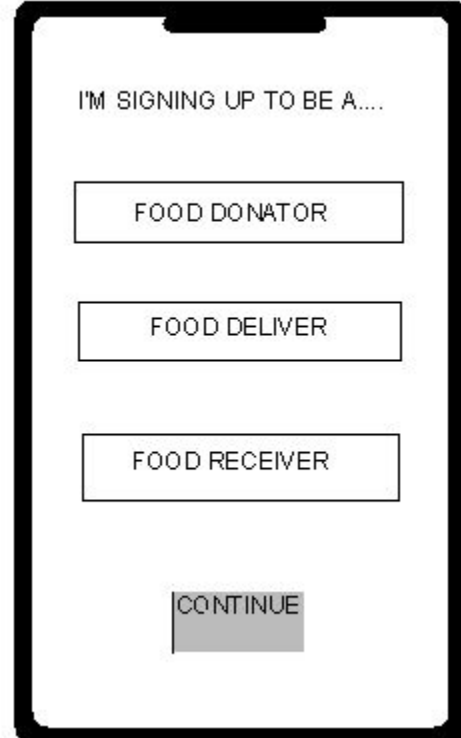
This is the page the user will be directed to if he is a food delivery person . Here, the user will be able to see the requests for deliveries, the deliveries that are in progress and the deliveries he has completed. Once he chooses to volunteer, he will be able to view the details of the delivery that has to be made, he will be directed to a map that will show the directions from the pickup location to the destination.



# Heuristic Evaluation

## 1) Visibility of System Status:

- Three modes in which a user can login to the app.
- The user mode will always to be displayed on the top.
- Based on the mode in which the user has logged he/she can will be able to access respective features.
- Easy navigation and access to features, throughout the app.



I'M SIGNING UP TO BE A....

FOOD DONATOR

FOOD DELIVER

FOOD RECEIVER

CONTINUE

## 2) Match between the system and real world

- Usage of simple and easily understandable language (terms).
  - All the images used are standard and practical which will help the user to understand the features available in the app better.
- So, that the interaction between the user and application is very smooth and reliable.

BACK

HI, FOOD DELIVER!

Potential Job Detail

Food Receiver  
Delivery Person

Item.	Rice.	Bread
Quantity	2Kg.	10 slices
pk. ?	no	no
MFD.	10/4/21.	10/4/21
Expiry.	12/4/21	12/4/21

ROUTE

Take Job

### 3) User control and Freedom :

→ The user has his freedom to use the app in

Whatever way he prefers.

For example, the user can sign in according to his choice he/she can either be a food deliverer, food receiver or food donator.

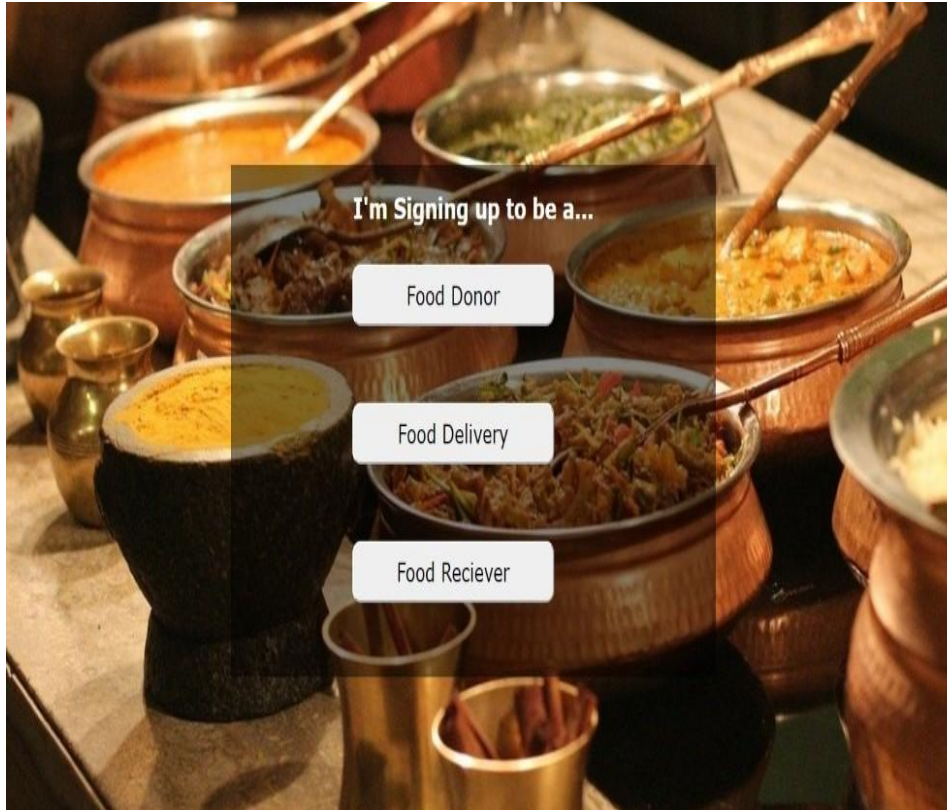
→ User will have complete control on the app once he logges in with his credentials to get access to all the Features. He can log in or log out at one point of time.



#### 4) Consistency and Standard :

- We are maintaining a consistent design throughout the app
- Which includes same font size , font color and background color to maintain uniformity throughout the app.
- Keeping in mind user comfort as our first priority.

## Consistency and Standard:



## CONTACT US

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Email: foodcollection@gmail  
Mobile: 9837526178  
9837462819

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## 5) Error Prevention:

- To access the app user needs to login which requires some details of the user, so here we will be setting up some conditions to accept those details
  - For example, password -there will be criteria for setting up a password for avoiding security issues.
- If irrelevant address is provided by the user the app alerts the user to make required changes.

A mobile app login/signup form with a thick black border. It contains three text input fields and a button. The first field is labeled 'NAME', the second 'ADDRESS', and the third 'PASSWORD'. Below these fields is a button labeled 'SIGN UP'.

NAME

ADDRESS

PASSWORD

SIGN UP

## 6) Recognition rather than recall:

- The app keeps track of the activity the user performs, so that the user does not have to recall his previous activities done.
- Since it will be difficult for user to remember all this donations or delivers the app makes it very convenient for the user by keeping the history and display it whenever the user needs the required information.
- The search box displays recent searches below it and provides suggestions as we start typing in the box.

## 7) **Flexibility and efficiency of use:**

→ Very simple to understand the app features as well as the working.

## 8) **Aesthetic and minimalist design:**

→ The app is clutter free and minimalistic.

→ Removal of irrelevant information.

## 9) **Help and Documentation:**

→ The app has a contact us section, where the user can seek help or enquiry any queries.



THANK YOU