



FOOD MANAGEMENT SYSTEM



Group-7

Arun B chandran-14
Jyothis S -37
Asa Shijil-75
Deepak P-76

◆◆◆ CONTENTS

1.	<i>introduction</i>
2.	<i>problem statement</i>
3.	<i>motivation</i>
4.	<i>Novelty</i>
5.	<i>software requirements</i>
6.	<i>design details</i>
7.	<i>implementation details</i>
8.	<i>intermediate results</i>





Introduction



The Food Management System is a web-based application that helps to manage the food in hostels, catering areas, and hotels.

The system provides a platform to display extra food available in the hostel or catering area. Social workers can use this platform to deliver the food without any delivery fee.

The system also helps organizations manage their food inventory efficiently and track their food waste, promoting sustainable and responsible food practices.





Problem Statement



In hostels, catering areas, and hotels, a significant amount of food is wasted daily.

The primary reason for this is the difficulty in predicting the amount of food required, leading to excess food preparation and wastage.

This wastage is not only harmful to the environment but also causes financial losses to hostels and catering areas.





Motivation



Food wastage is a major issue that affects not only our finances but also the environment. In many hostels, catering areas, and hotels, extra food is prepared to accommodate guests, leading to large amounts of food going to waste.

By developing a food management system, we can tackle this problem by efficiently managing food inventory, orders, and delivery, ensuring that no food goes to waste.





Novelty



The novelty in this project lies in the integration of various functionalities related to food management such as inventory management, ordering, and delivery by social workers or volunteers.

Additionally, the project includes a feature where any extra available food can be displayed.

These functionalities make the project unique and useful for managing food-related operations in a hostel, catering area, or hotel.





Software Requirements



The software requirements for this project are:

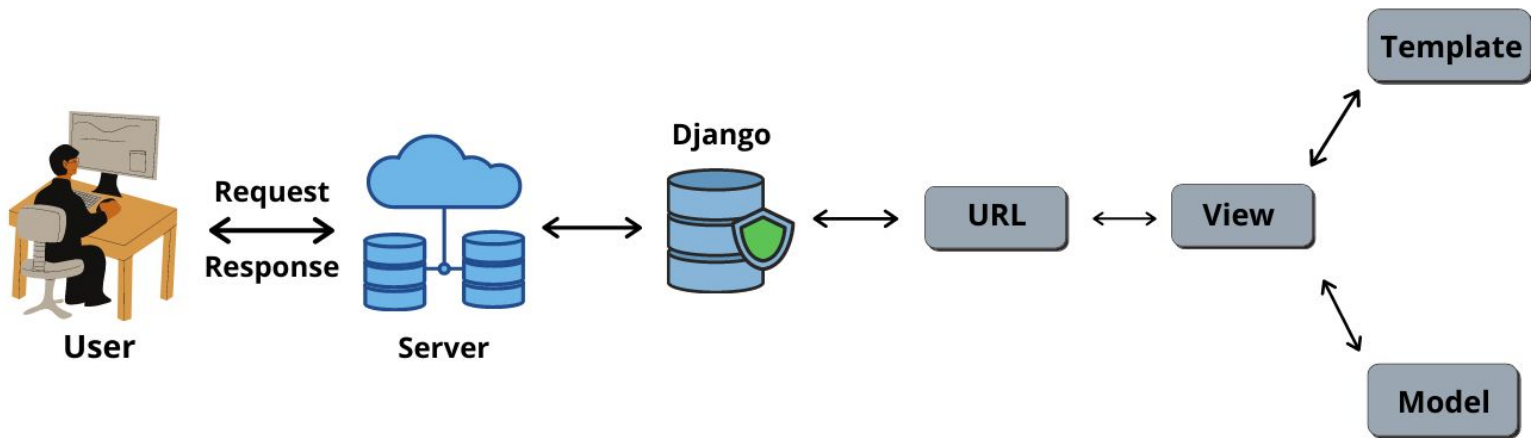
1. Operating System: Windows, Mac OS, or Linux.
2. Python 3.6 or above.
3. Django web framework.
4. HTML, CSS, and JavaScript for front-end development.
5. MySQL for database management.
6. Text editor or IDE for coding (e.g. Visual Studio Code, PyCharm).
7. Git for version control.



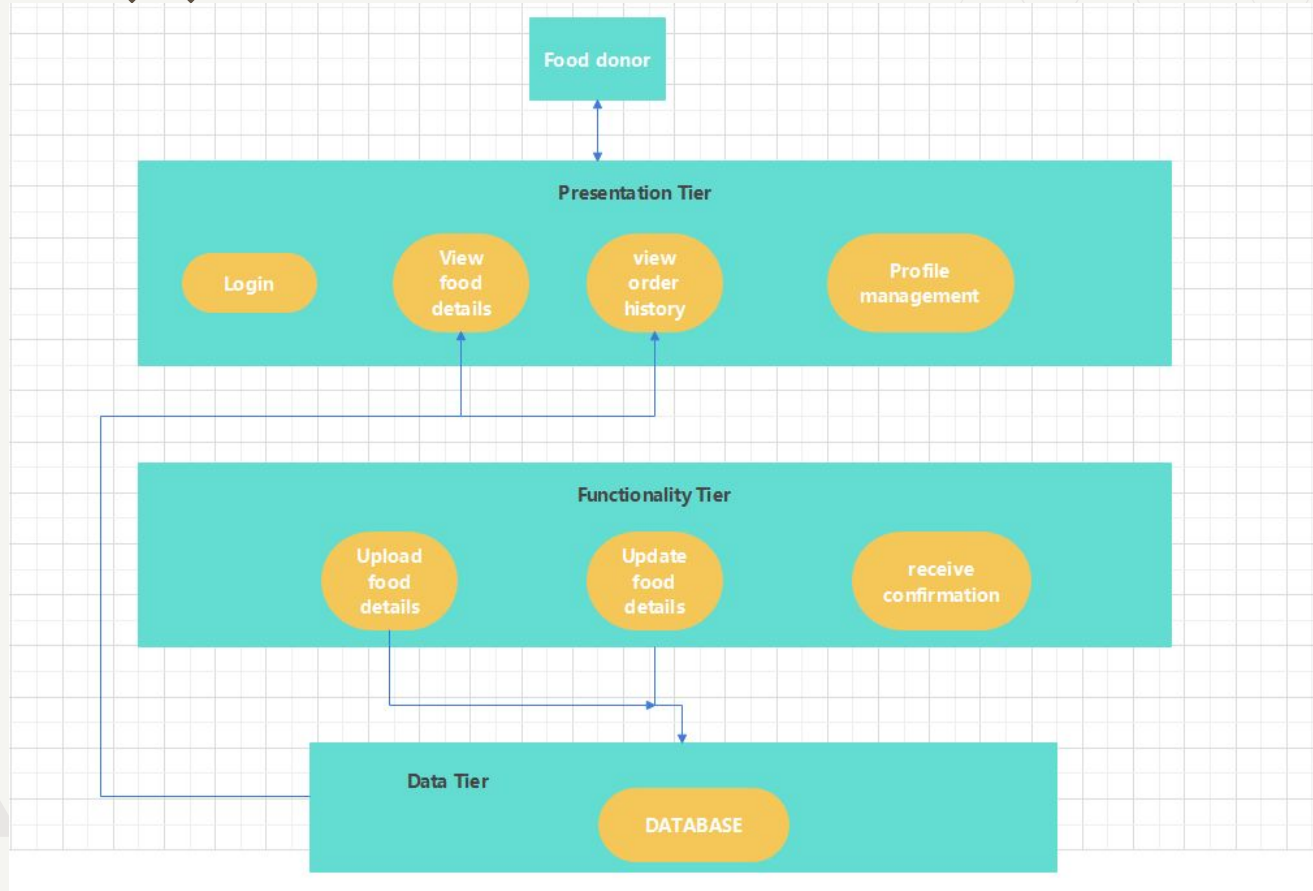


Design Details

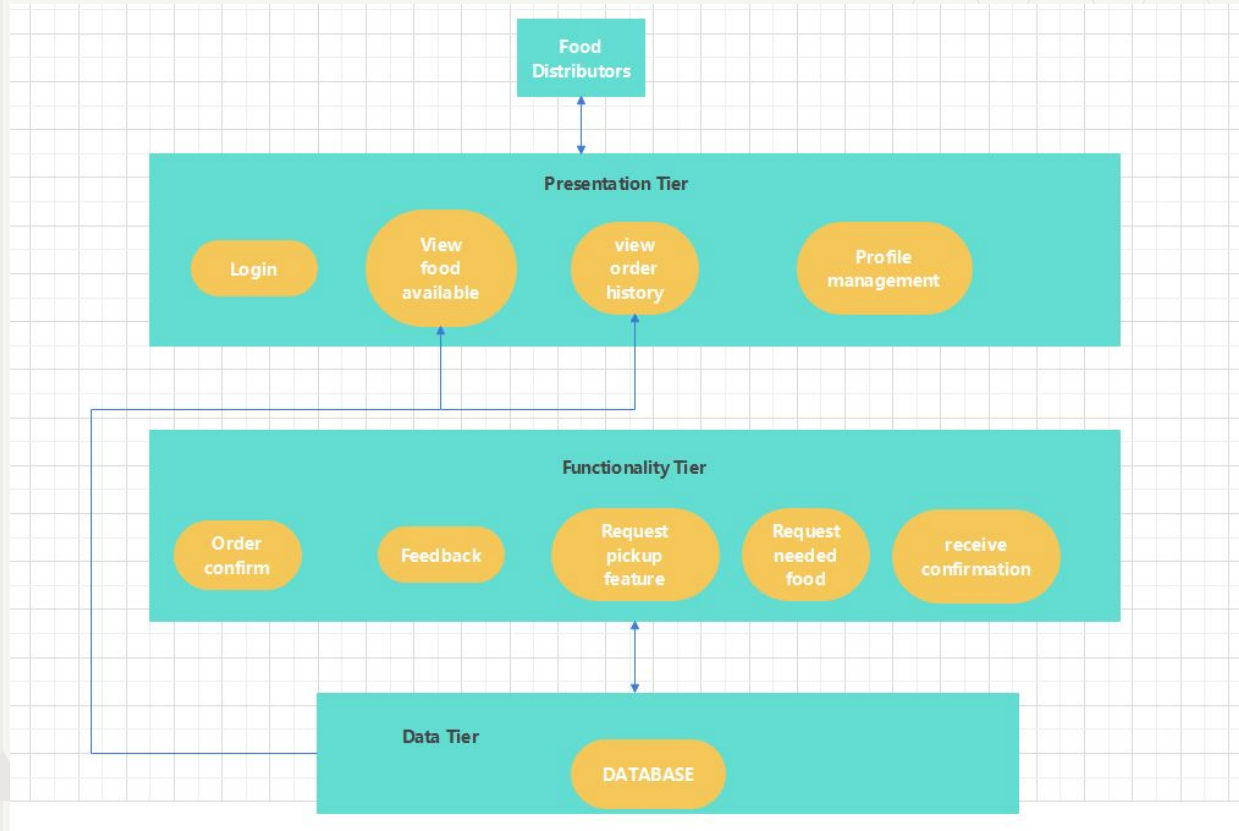
Django Architecture:



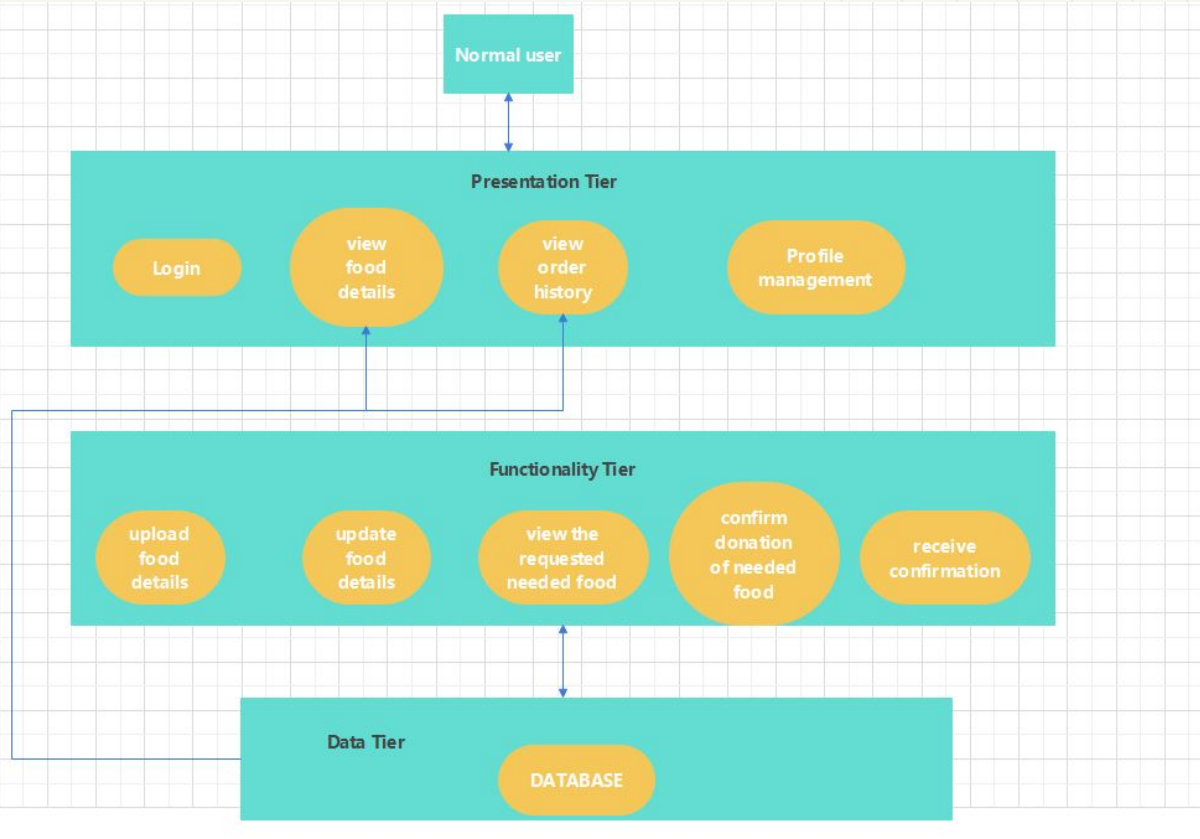
◆◆◆ 1. Food donors (hotels, hostels, catering):



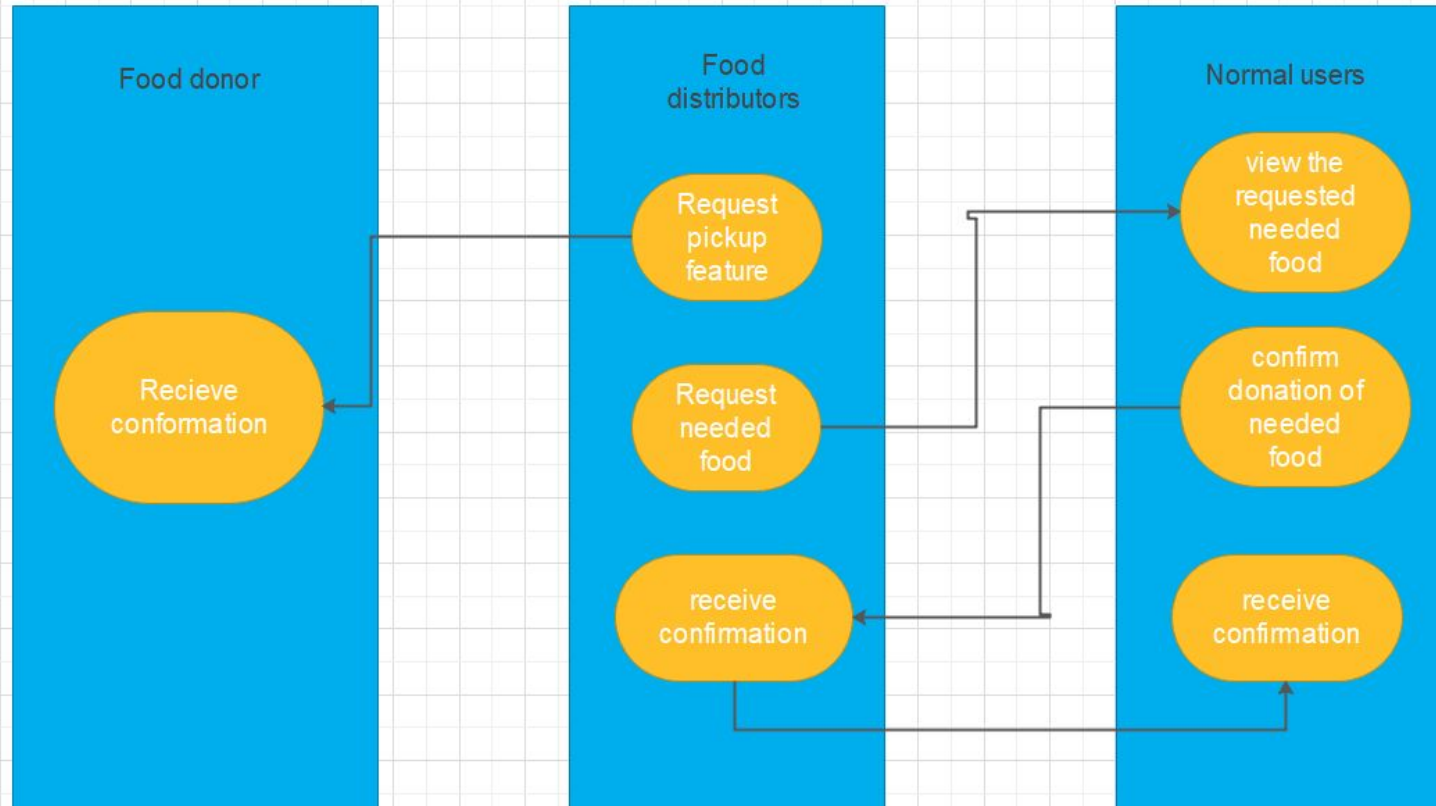
2. Food Distributors (social workers, other social service volunteers):



3.Normal Users:



4. User types with their functions:





Implementation Details

1. Front-end Development: The front-end of the Food Management System will be developed using HTML, CSS, and JavaScript.
2. Back-end Development: The back-end of the system will be developed using Django. We will use Django Rest Framework to create APIs that can be used to interact with the database.
3. User Authentication: We will use Django's built-in authentication system to handle user authentication and authorization. Users will be able to sign up, login, and update their profile information.





Implementation Details

4. Food Item Management: Hostel or catering area or hotel staff and normal users will be able to add, update, and delete food items. They can also be able to set the quantity of available food items, and the system will automatically update the availability based on the orders placed.
5. Order Management: the food is ordered by the social workers and organization like nss, etc
6. User Profile:- Users will be able to view and edit their profile information like name, address, phone number, etc





Implementation Details

7. Delivery Management: Delivery is done by the social workers Or organization like nss etc

8. Database design:

- User Model: A custom user model will be created to extend Django's default user model. This model will have fields like email, username, password, etc.
- Food Model: This model will have fields like name, description, location, quantity, etc.
- Order Model: This model will have fields like user, food, quantity, status, etc.
- Delivery Model: This model will have fields like order details, delivery type, etc.

.
.
.





Intermediate results

Signup Here

first name last name

Enter your mobile number(10 digits):

mobile number

Email

Password

Confirm Password

Confirm Password

Sign Up

[i have already account](#)

Sign up page



Intermediate results

127.0.0.1:8000/website/login/

YouTube Gmail Keep Calendar Personal College Spotify Youtube Music News Updates Chess Snapdrop Maps BTCUSDT Delta Futures Tools Books

Login Here

Enter your email address:

email address

Password

Password

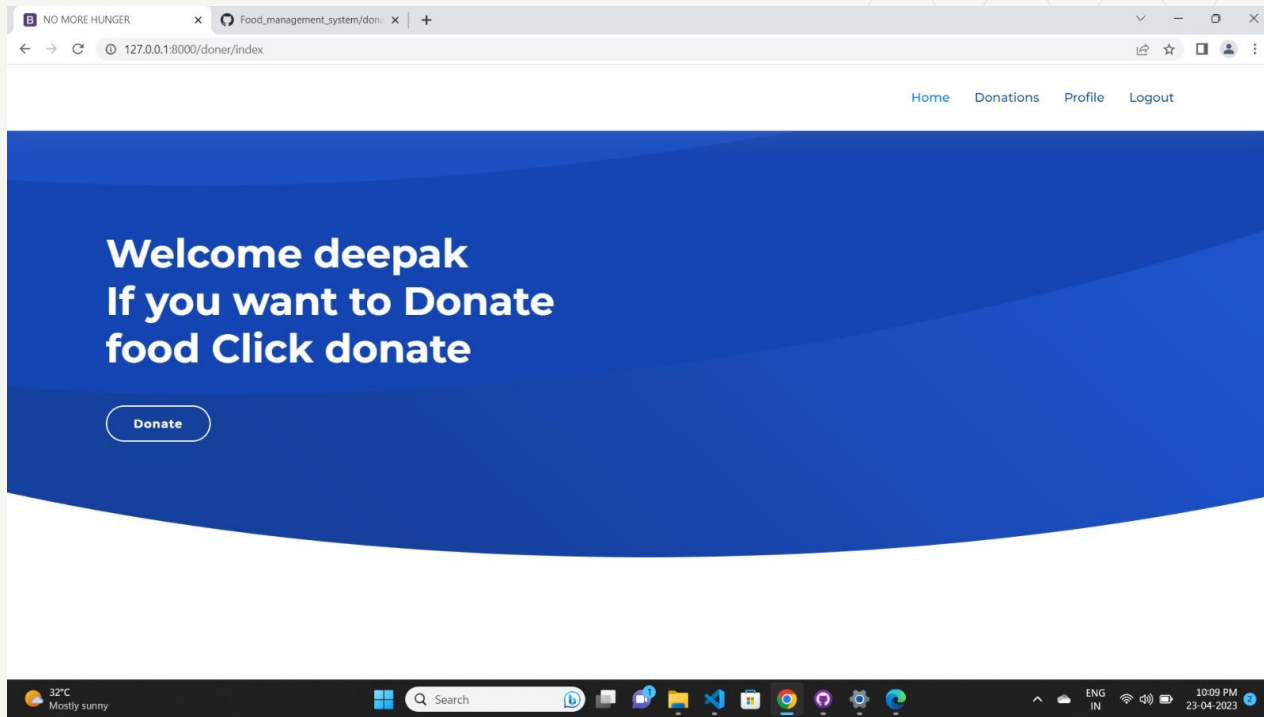
Log In

[Create a account](#) [Forget Password](#)

Login page



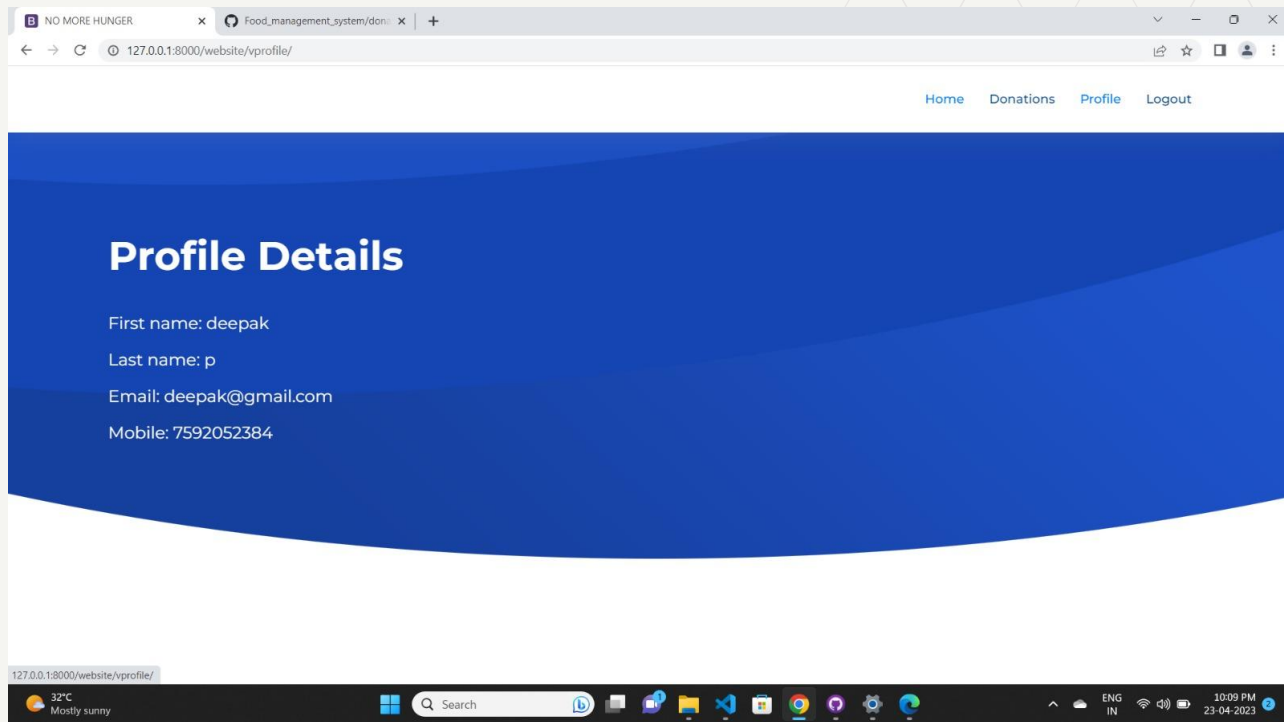
Intermediate results



Welcome page



Intermediate results



Profile details



Intermediate results

NO MORE HUNGER

Food_management_system/done

WhatsApp

127.0.0.1:8000/doner/donate_food

Home Donations Profile Logout

Donate food

type of food

food description

supply date

pickup location

pickup_deadline

contact information

submit

32°C Mostly sunny

Search

ENG IN

10:12 PM 23-04-2023

Donation page



Intermediate results

NO MORE HUNGER

Food_management_system/don...

127.0.0.1:8000/doner/donation_history

Home Donations Profile Logout

Your donations

user	food_type	discription	supply_date	pickup_location	pickup_deadline	contact_information
deepak	biryani	for 50 people	May 23, 2023	karikood	May 24, 2023	7536984512

32°C Mostly sunny

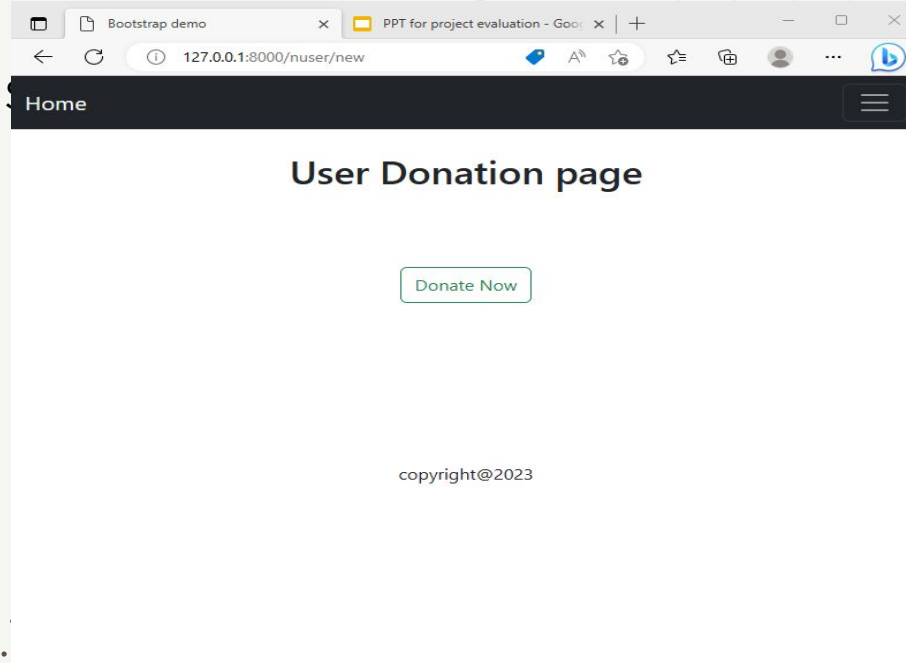
Search

ENG IN 10:09 PM 23-04-2023

Your donations page



Intermediate results



User Home page



Intermediate results

Bootstrap demo x PPT for project evaluation - Google x

127.0.0.1:8000/nuser/dpage

Home

ENTER THE FOOD DETAILS

Enter the name
Enter mobile number
Enter the location
Eelect food item
Eenter the quantity

Submit

.....
.....

User Food donation page





Thank You

