A PROJECT REPORT ON

"FOOD RECOVERY AND WASTE MANAGEMENT SYSTEM"

Submitted in partial fulfillment for the award of

Post Graduate Diploma in Advance Computing

(PG-DAC) from

INSTITUTE OF EMERGING TECHNOLOGIES

Authorized Training Centre

SUBMITTED BY:

ABHISHEK GAJANAN SONONE
(220945920002)

PARVEJ RAJJAK MULANI
(220945920056)

SHAIKH TAUFIKH SHAIKH AYUB
(220945920084)

SHUBHAM PANDURANG GHUMARE
(220945920097)

SIDDHANT GAJANAN ALCHEWAR
(220945920100)

UNDER THE GUIDENCE OF:

Mr. SALIL BAGADE

Faculty Member
Institute of Emerging Technology, Pune.

CERTIFICATE

This is to certify that the project report etitled '**FOOD RECOVERY AND WASTE MANAGEMENT SYSTEM**' is done by **Mr. ABHISHEK G. SONONE, Mr. PARVEJ R. MULANI, Mr. SHAIKH TAUFIKH SHAIKH AYUB, Mr. SHUBHAM P. GHUMARE and Mr. SIDDHANT G. ALCHEWAR** and submitted in partial fulfilment of the requirement for the C-DAC ACTS, DAC course in Institute of Emerging Technology in the batch of March 2023.

Project Guide **Course Co-Coordinator**

Date:23/01/2023

ACKNOWLEDGEMENT

This project **FOOD RECOVERY AND WASTE MANAGEMENT SYSYTEM** was a great learning experience for us and we are submitting this work to Advanced Computing Training School (CDAC).

Our most heart full thanks goes to ***Mr. Sangram Patil*** **(Director ,IET)**who gave all the required support and kind coordination to provide all the necessities like required hardware , internet facility and extra lab hours to complete the project and throughout the course up to the last day here in C-DAC ACTS, Pune.

Mr. ABHISHEK G. SONONE

Mr. PARVEJ R. MULANI

Mr. SHAIKH TAUFIKH SHAIKH AYUB

Mr. SHUBHAM P. GHUMARE

Mr. SIDDHANT G. ALCHEWAR

Abstract

The severe gradual increase in food waste can be seen in recent years. According to Food and Agriculture Organization (FAO), one third of food produced by humans for human consumption is wasted all over the world , which is almost 1.3 billion ton per year, on the another side twenty percentage of people in all over population struggling for food in severe food shortages as per a World Health Organization report. This web based application helps to collect the food from the donors and to distribute to the people in need.This is the basic concept and the main objective of this project.

Index

1. INTRODUCTION TO PROJECT

The basic concept of this project entitled "Web based application for Food Waste Management" is to collect the excess/leftover food from donors such as hotels, restaurants, marriage halls, etc and distribute to the needy people through NGOs.

NGOs will collect the leftover or excess food from above mentioned venues for the distribution to the needy people. This web-based application for food waste management can assist in collecting the leftover food from hotels, restaurants, marriage halls, social, political functions& religious events to distribute among those who are in need.

NGOs, that are helping poor communities to battle against starvation and malnutrition, can raise a request for supply of excess/left-over food from restaurants through this application. Once the request is accepted, the NGOs can collect the food from the venue for distribution. In this way this web-based app for food waste management will help the donors to reduce food waste and help in feeding the poor and needy people.

In this proposed system proper implementation of website is achieved with various features. In this proposed system, the Donors ,NGOs (Non-Governmental Organizations) and SSIs (Small Scale Industries) can find one another easily through the details given by the themselves.

It contains a separate logistics login who can collect the foodpackets from the Donors and deliver to the NonGovernmental Organizations or Small Scale Industries. It is helpful for the restaurants to know that how much food they have producedin excess day-by-day. It also helps to donate the leftover/excess food regularly for the needy people.

Working principle

This web-based app for food waste management includes four modules such as Donor, NGO and SSI. Each module includes registration and login to the website. Donor, NGO and SSI registrations will be verified to avoid the scam or fake requests or fake supplies.After verification, both will raise a request for donation and need. Donor can donate the food by filling the form and Donor can see their request whether it is accepted or not. NGOs and SSis can view the donors' request and accept or reject those request by their need.

2. PROBLEM DEFINITION & SCOPE

2.1 PROBLEM DEFINITION

In India, the larger the marriage, the larger the party, and also the additional stupendous the waste. No doubt weddings and banquets are an enormous supply of food wastage, however, restaurants and hotels conjointly contribute to food wastage, although the attention around this has grown full-grown within the last 5 years. Whereas some restaurants in India use food controllers to envision food spoilage, alternatives give it to their employees and other personnel, and smaller standalone restaurants, give it to orphanages. Few utilize non-perishable food.

Food waste findings:

- On Average, 40% of food produced were being disposed of. This means that 7.5 tons of food are discarded daily.
- Some 84.7% of the whole waste material recorded was thrown within the bin, whereas the remainder was either fed to the poor or some animals.
- A big portion of the waste material binned was still in edible condition.
- If the edible waste material generated is used, we tend to estimate that it might feed a minimum of 2000 individuals daily.
- Solely a pair of the ten shops surveyed were part waste aware, i.e., they separated the edible from the inedible, and ensured that food in condition reached empty stomachs. One among them disposed of their food at twelve noon, in order that it might be fed to the cows within the space. The other claimed to administer away all edible waste material to the native laborers and employees, for free, at the tip of the day.

Overall, we tend to conclude that, across the town, an absence of consciousness around waste material is obvious. It is true that the difficulty of food waste management in India is far additional nonmoving within the actual handling, storage, and transport of food grains and vegetables before they even reach the consumer's plate. However, the matter of waste material at the retail level cannot be unnoticed, particularly once 7.5 tons of food is wasted per day, that too solely.

Wasting food has an economic impact:

The better process will feed 11 percent of the world's population, several Indians. Meeting the food desires of a growing population in India (1.7 billion by 2050) whereas reducing food loss and waste poses a significant challenge. Wasting a ton of wheat and rice would mean wasting 1,500 and 3,500 liters of water severally that goes into their production.

Globally, virtually 250 cubic km of water and one.4 billion hectares of land are dedicated to manufacturing food that's lost or wasted. According to the Food and Agriculture Organization (FAO), once a year around 17 billion tons, or one-third of food made for human consumption, are lost or wasted globally. The associated economic, environmental, and social prices of this loss at around $1 trillion, $700 billion, and $900 billion p.a. severally.

In India, the worth of food wastage (harvest and post-harvest losses of major agricultural produce) is calculable at around INR 92,000 crore once a year at 2014 wholesale costs. Within the food price chain, twenty-four percent of worldwide food loss and waste happens at the

production stage, twenty-four percent throughout handling and storage, and thirty-five percent at consumption.

These 3 stages taken along account for over eighty percent of worldwide food loss and waste. Quantifying waste material on the worth chain by investing in the recently discharged international organization International Food Loss and Waste Protocol as a framework will facilitate India.

Wasting food has environmental Impact:

Food loss and waste are within the food and agriculture sector wherever diversifications to temperature change are necessary. Food loss and waste generate approximately eight percent of worldwide greenhouse gas emissions. A recent study predicts that emissions related to waste material may increase further. Hence, the message for World Food Day, discovered on Gregorian calendar month sixteen, was that "Climate is dynamical. Food and agriculture should too".

While food waste management in India is gaining momentum, it needs to get a move on to help tackle one of the globe's most important issues that is climate change. Food wastage has irreversible environmental effects. Because food waste management is ne of the major source of global greenhouse gas emissions Along with the wasted food we waste the water and energy it took to create it and produces ozone harming greenhouse gases — 7% of the world's emissions— like methane, carbon dioxide, and chlorofluorocarbons, which contribute to Global warming. Food that rots in landfills produces nitrogen, which destroys soil nutrients and converts the lands into dead zones. Methane emitted from the decomposition of food waste hangs around the atmosphere for 20 years and traps most of the heat in the environment. This results in Climate Change.

2.2 GOALS & OBJECTIVES

The goals and objectives of a food recovery and waste management system can vary depending on the specific context and needs of the community, but some common ones include:

Reducing Food Waste: One of the primary goals of a food recovery and waste management system is to reduce the amount of food waste that goes to landfill. This can help to reduce greenhouse gas emissions, conserve resources, and save money.

Feeding Hungry People: Another key objective is to recover edible food that would otherwise be wasted and distribute it to people in need. This can help to reduce food insecurity and waste simultaneously.

Promoting Sustainability: A food recovery and waste management system can also help to promote sustainable practices by encouraging waste reduction, recycling, and composting.

Saving Resources: By diverting food waste from landfill, a food recovery and waste management system can help to conserve resources such as water, energy, and nutrients.

Educating the Community: A food recovery and waste management system can also play a role in educating the community about the importance of reducing food waste and the benefits of sustainable practices.

Supporting Local Businesses: By partnering with local businesses to recover and redistribute

surplus food, a food recovery and waste management system can support the local economy and reduce the financial burden of waste disposal.

Creating Jobs: A food recovery and waste management system can also create jobs in areas such as food recovery, composting, and recycling.

Overall, the goals and objectives of a food recovery and waste management system are to reduce waste, feed hungry people, promote sustainability, conserve resources, educate the community, support local businesses, and create jobs.

2.2 MAJOR CONSTRAINTS & OUTCOMES

The Environmental Protection Agency provides the “Food Recovery Hierarchy” graphic to explain ways to handle excess food. [8] From the most preferred at the top of the pyramid to the least preferred at the bottom tip, the methods include:

1. Source reduction: Earliest prevention by reducing the overall volume of food produced
2. Feed hungry people: Donating excess food to community sites
3. Feed animals: Donating food scraps and waste to local farmers who can use them for animal feed
4. Industrial uses: Donating used fats, oils, and grease to make biodiesel fuel

5. Composting: Food waste that is composted to produce organic matter that is used to fertilize soil

6. Landfill/Incineration: A last resort for unused food

Food waste and recovery management is an important issue for both environmental and economic reasons. The major constraints and outcomes of food waste and recovery management include:

Constraints:

- Lack of awareness: Many people are not aware of the impact of food waste on the environment and the economy.
- Inefficient food supply chain: The food supply chain is often inefficient, leading to food waste at various stages of production, processing, distribution, and consumption.
- Inadequate infrastructure: The lack of proper infrastructure, such as composting facilities and anaerobic digesters, hinders the recovery of food waste.
- Legal and regulatory barriers: Some countries have laws and regulations that make it difficult to recover and redistribute food waste.
- Cultural and societal barriers: Some people have cultural or societal beliefs that prevent them from accepting recovered food or eating leftovers.

Outcomes:

- Environmental impact: Food waste generates significant greenhouse gas emissions and contributes to climate change. It also wastes resources such as water and land used to grow, transport, and process food.
- Economic impact: Food waste represents a significant economic loss for food producers, distributors, and consumers. It also wastes resources such as labor, energy, and capital.
- Food insecurity: Food waste exacerbates food insecurity, especially in developing countries where many people struggle to access adequate nutrition.
- Public health: Improperly disposed of food waste can attract pests and spread disease, posing a public health risk.

Effective food waste and recovery management can reduce these negative outcomes and provide several benefits, including reducing greenhouse gas emissions, conserving natural resources, reducing food insecurity, and improving public health.

3.SYSTEM REQUIREMENT SPECIFICATION

USER:

1. **Direct User :-**

- Residential Socities
- Donar(humans)
- Farmers
- Vegetable maundis
- M.N. Palika's
- etc…

2. **Indirect User :-**

- NGO (working for humans)
- NGO (working for animals)
- Small Scale Industries
- etc…

OBJECTIVE

The FRWM system works as web application which is intended to provide complete solution for society welfare facilities and food waste management from end-to-end stage .Residential societies, Donor, Farmers ,etc. are able to communicate and deal with beneficiaries like NGO for humans, NGO for animals and Small Scale Industries(SSI) through browser virtually and get all provided list of beneficiaries without visiting required place physically.

SCOPE

This system allows wide range of flexibility to user to select beneficiaries either NGO or SSI as per his requirement or by sorting locations. User will get details about beneficiaries and both will get notification after submit form or accept the request. Those request session for few minutes after getting accepted by beneficiaries and session get stored and deals get done.

User get contact details of beneficiaries. Few user (farmer, mandis) will be able to do self instantiate bilateral netting with SSI using this web application.

Defination

SSI=Small Scale Industry
NGO=Non-Government Organization

FUNCTIONAL REQUIREMENTS

User Requirement:

- Beneficieries Category
- List of Active Beneficieries
- Sorting of Benefeciary List by Location
- Benefeciaries Details
- Food donation details
- Contact Benefeciaries by sending Request
- Get Response from Benefeciaries within time

Request Processing:

- Benefeciaries Details
- Food donation details
- Contact Benefeciaries by sending Request

Beneficieries Requirement:

- Benefeciaries gets notification from User.
- Benefeciaries will able to see Request Sender Details
- Benefeciaries will have two choices either ACCEPT or REJECT the Request

MIS(MANAGEMENT INFORMATION SYSTEM)

In this Application, any annonymous User will be able to view different Benefeciaries Modules like NGOs (Non- Government Organisations) and Small Scale Industries .

After selecting particular beneficiary user will able to see Beneficiery details.

The Benefecieries Details May Include:

NGO Details-(Name,Address, Activities ,Contact Details)
SSI Details-(Name,Address,Production Details,Waste Management Methodologies)
Those details are maintained by System.
After understanding the scope of Benefecieries, User will select NEXT Tab.
On the Next Page user need to fill the form for sending the request to selected Beneficiary.
As soon as User sends the request, Beneficiery gets notification about the reuest.
Then benefecieries will be able to raise response for request from User within certain time period.

NON-FUNCTIONAL REQUIREMENTS

Usability: The system should be easy to use and navigate, with clear and concise user interfaces.
Security: The system should have a secure login system and maintain the confidentiality and integrity of user data.
Performance: The system should be able to handle large amounts of data and user traffic, with minimal downtime and fast response times
Scalability: The system should be designed to accommodate future growth and expansion.
Compatibility: The system should be compatible with different operating systems and web browsers.

4. SYSTEM MODULES

The Food Recovery and Waste Management System (FRWMS) is a complex system that requires several modules to function effectively. Here are the modules of the FRWMS:

User Management Module: This module manages user accounts, including registration, authentication, and access control. The user management module ensures that only authorized users can access the system and perform specific actions.

Food Donation Module: This module allows food donors to input the details of their donations, including the type of food, quantity, and location. The module also enables donors to set up recurring donations and track the status of their donations.

Food Recovery Module: This module enables food recovery organizations to access information about food donations, including the type of food, quantity, and location. The module also allows recovery organizations to schedule pickups and track the status of recovered food.

Food Distribution Module: This module enables food distribution organizations to access information about available food donations, including the type of food, quantity, and location. The module also enables distribution organizations to schedule pickups and track the status of distributed food.

Waste Management Module: This module enables waste management organizations to access information about the amount of food waste generated and the location of waste collection points. The module also enables waste management organizations to schedule pickups and track the status of waste disposal.

Reporting Module: This module generates reports on food donations, recoveries, distributions, and waste management. The module provides statistical information on the amount of food waste generated and the amount of food recovered and

distributed. The reporting module also provides data analytics to help organizations identify areas of improvement.

Notification Module: This module sends notifications to users regarding their donations, pickups, and other important updates. The module can send notifications via email, SMS, or push notifications.

Analytics Module: This module analyzes the data collected by the system to identify trends, patterns, and areas of improvement. The analytics module provides organizations with valuable insights that can help them optimize their operations and reduce food waste.

NGO/SSI Module: This module manages NGO/SSI accounts, including registration, authentication, and access control. The NGO/SSI management module ensures that only authorized users can access the system and perform specific actions.Enables to Accept or Reject the incoming request which is send by the Donor/User.

5. PERFORMANCE-REQUIREMENTS

Hardware Requirements:

Server: A high-performance server is required to run the food recovery and waste management system. The server should have at least 8 cores, 16 GB of RAM, and 500 GB of hard disk space. The server should be able to handle high traffic and large amounts of data.

Storage: Adequate storage is required to store the large amounts of data generated by the food recovery and waste management system. A minimum of 1 TB of storage is recommended for the system.

Network: A high-speed internet connection is required to ensure that the system can handle high traffic and data transfer. A minimum of 10 Mbps bandwidth is recommended.

Software Requirements:

Operating System: The food recovery and waste management system can be hosted on either Linux or Windows operating systems. The recommended operating system is Linux, such as Ubuntu or CentOS.

Web Server: The system requires a web server to run. The recommended web server is Apache or NGINX.

Database: The system requires a database to store data. The recommended database is MySQL .

Programming Languages: The system is developed using programming languages such as Java.

Frameworks: Frameworks such as SpringBoot is used to build the system.

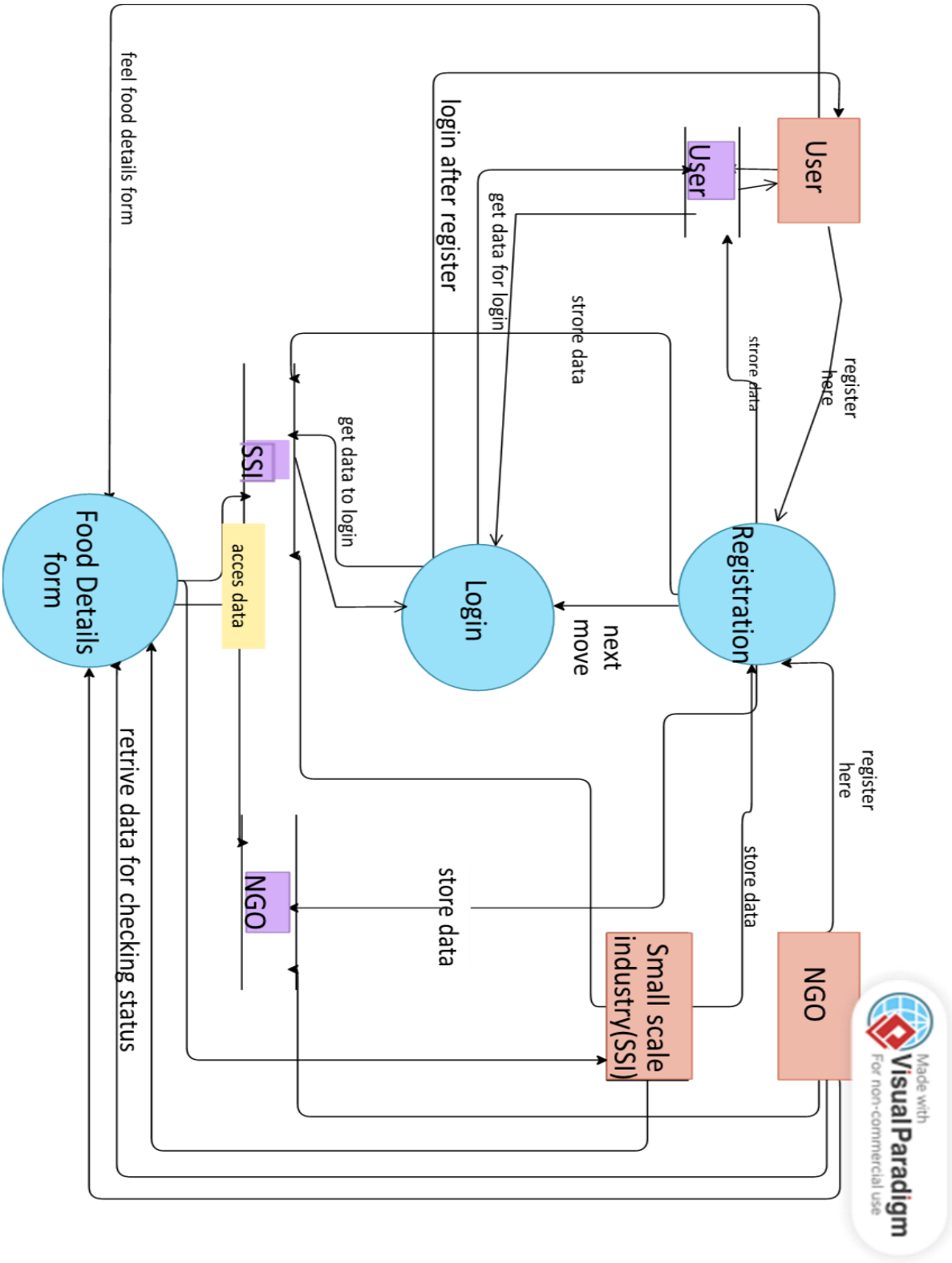
Spring Boot is a Java-based framework that provides a lightweight and efficient way to build and deploy web applications. It comes with an embedded web server, which is a Tomcat server by default. This embedded server is designed to make it easy for developers to get started with Spring Boot without having to configure a separate web server.

Security Software: Security software such as firewalls, antivirus software, and intrusion detection systems should be installed to protect the system from attacks.

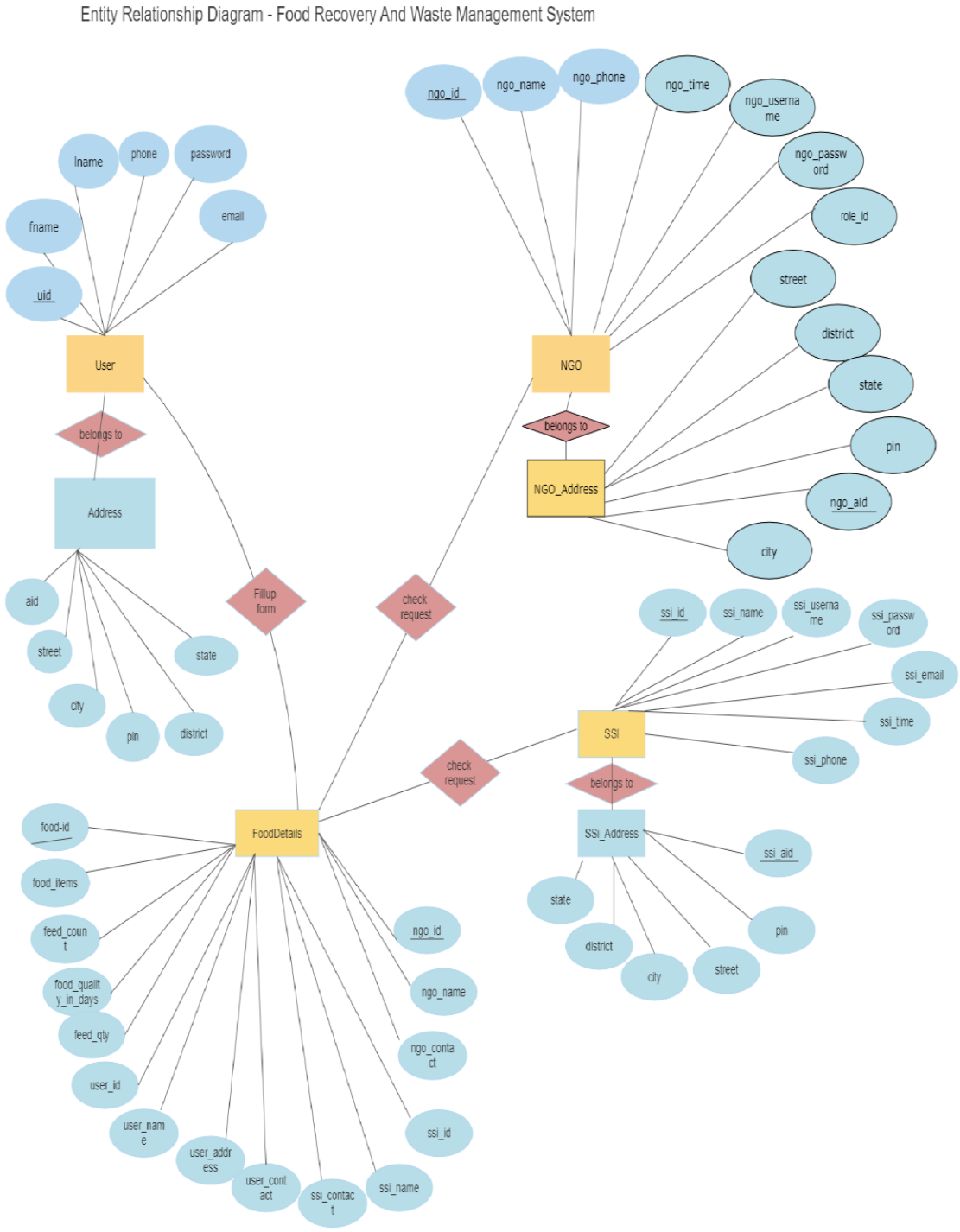
In conclusion, the food recovery and waste management system requires a robust server with adequate storage and network resources. The system requires a web server, database, programming languages, and frameworks to function effectively. Additionally, security software should be installed to protect the system from attacks.

6. UML DIAGRAM

6.1 DFD Diagram

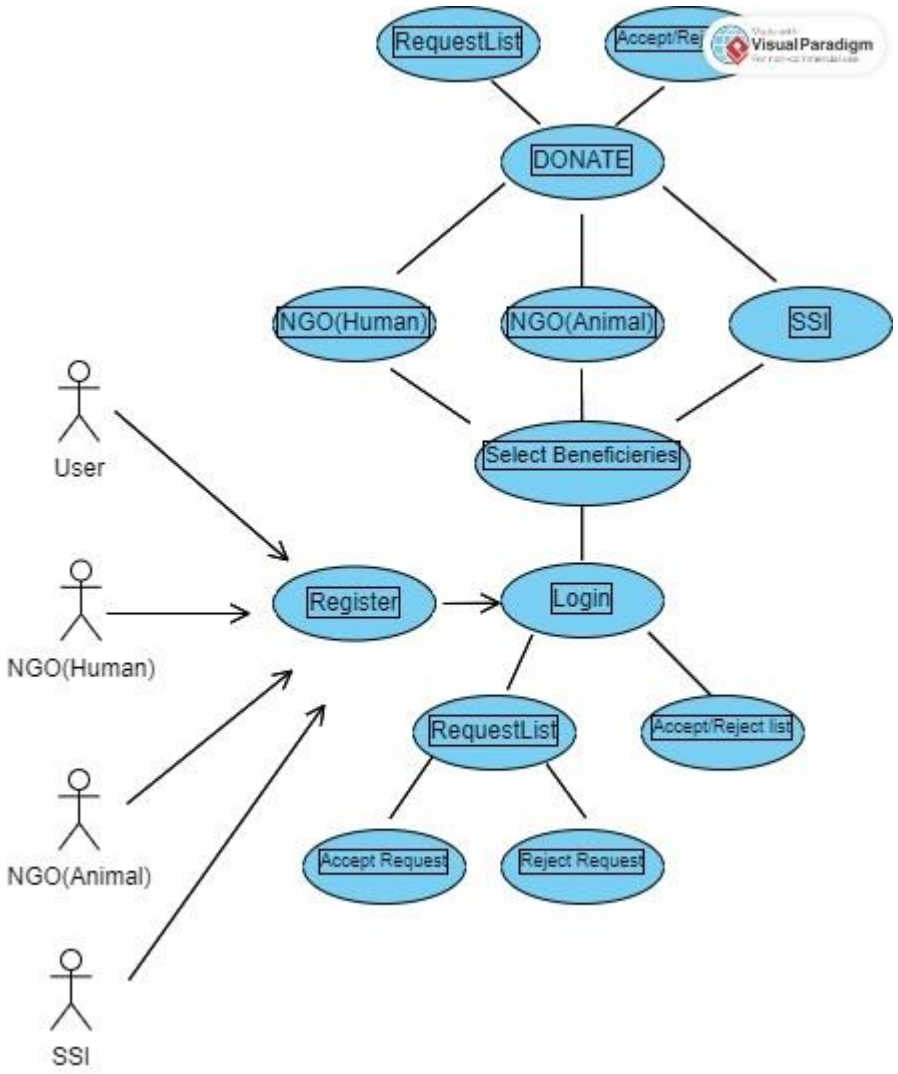


6.2 ENTITY RELATIONSHIP Diagram

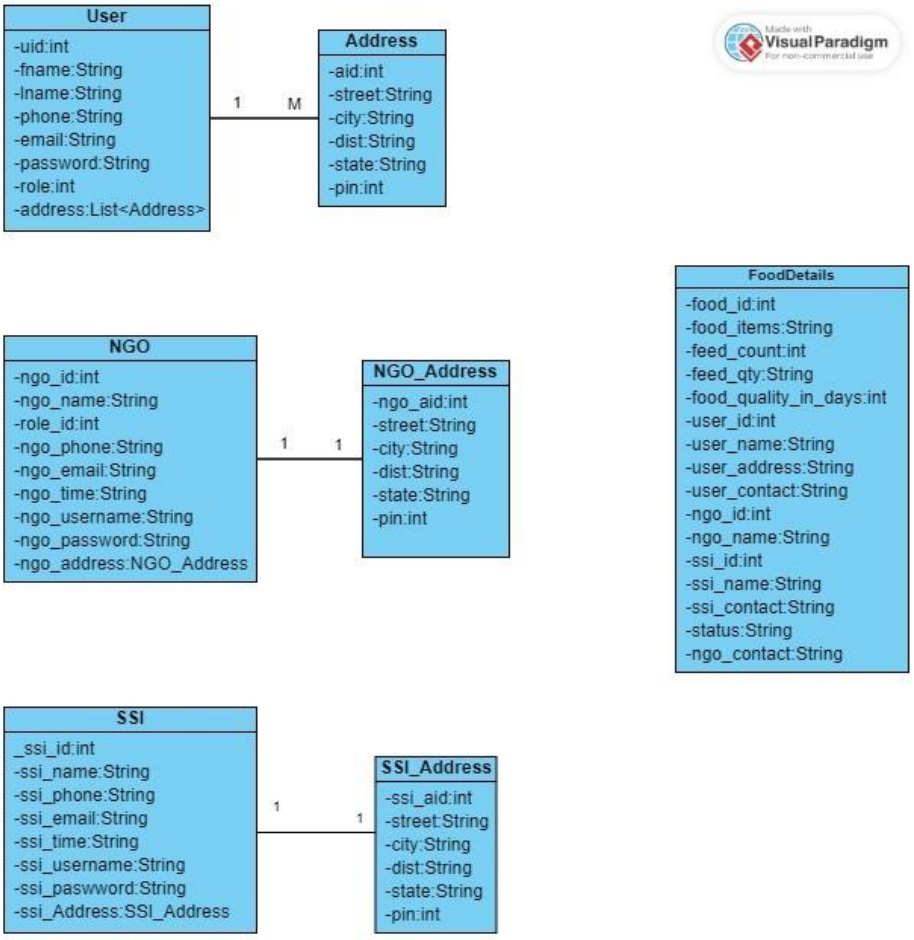


Diag. Entity Relationship Diagram

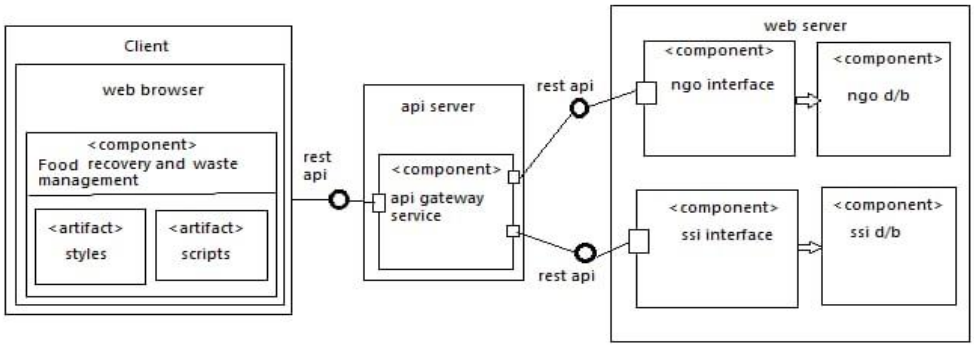
6.3Use case diagram



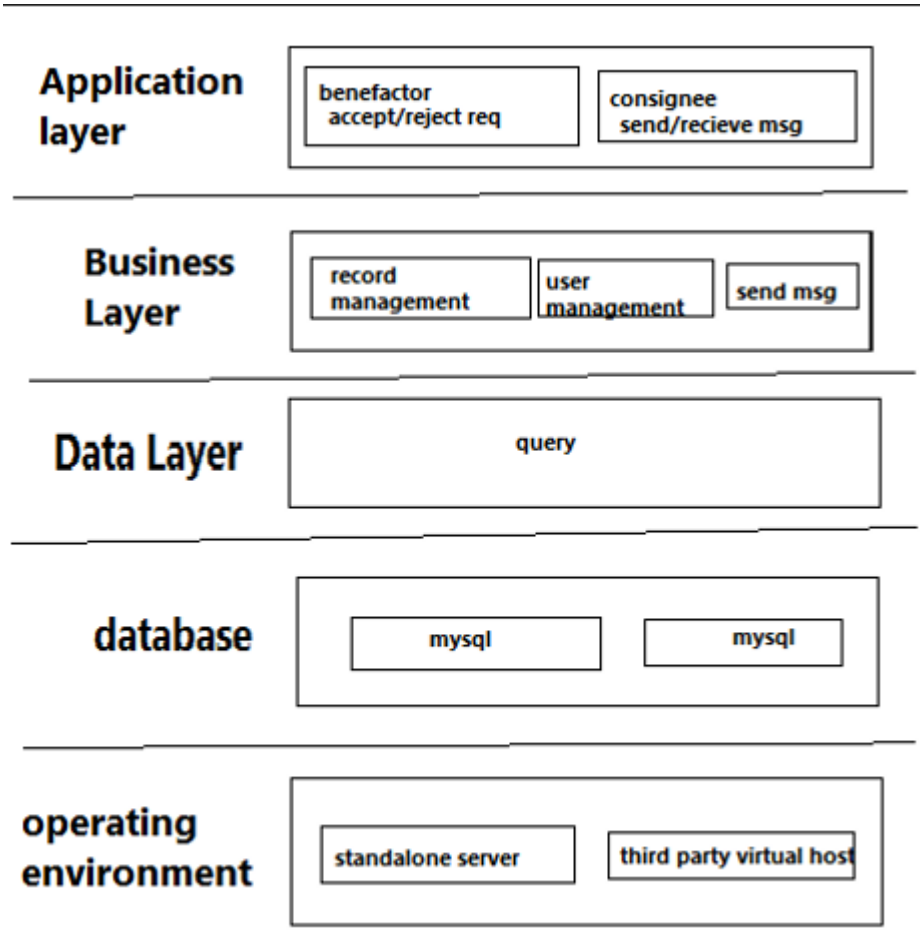
6.4 Class Diagram



6.7 Deployment diagram

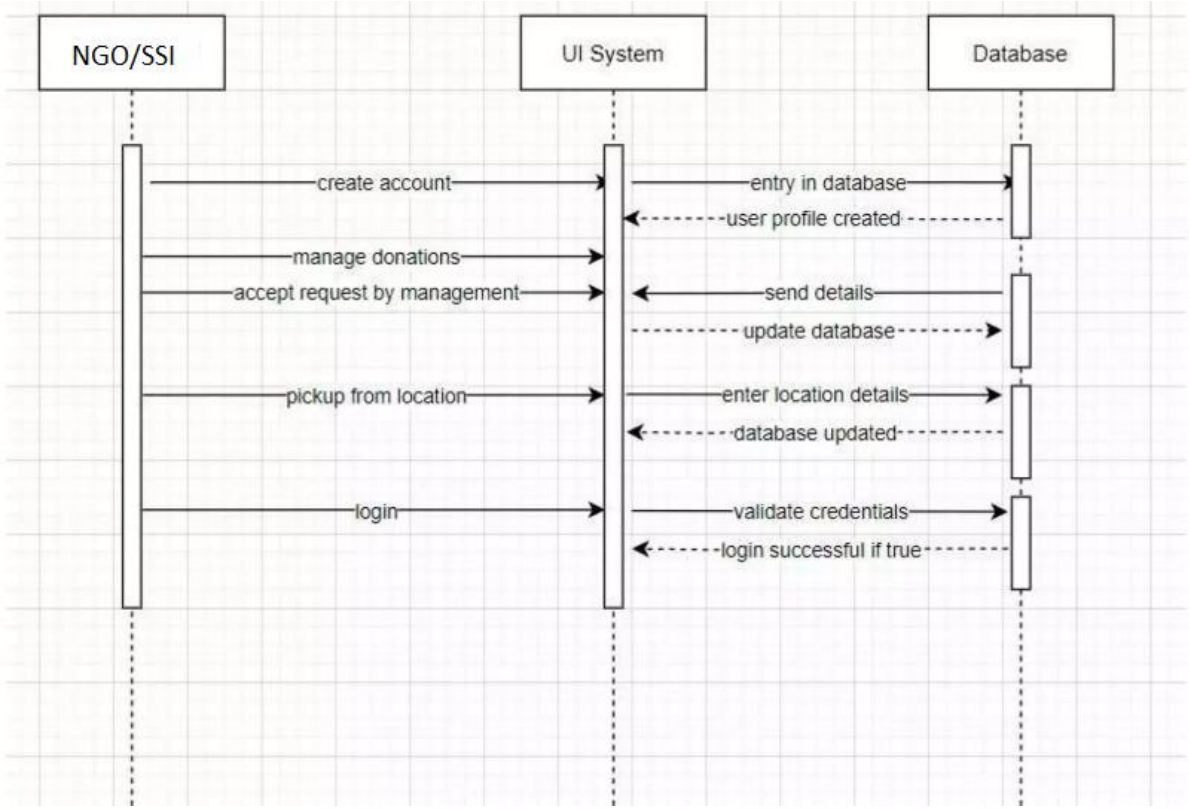


6.8 System Architecture

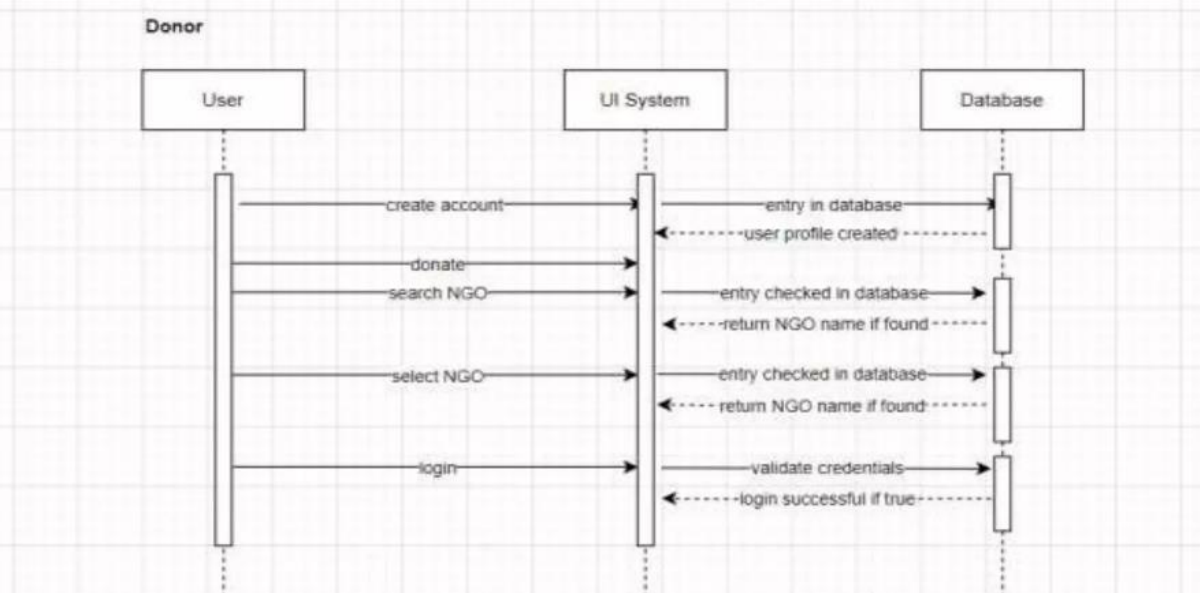


6.5 Sequence Diagram

Sequence Diagram for NGO/SSI Management :

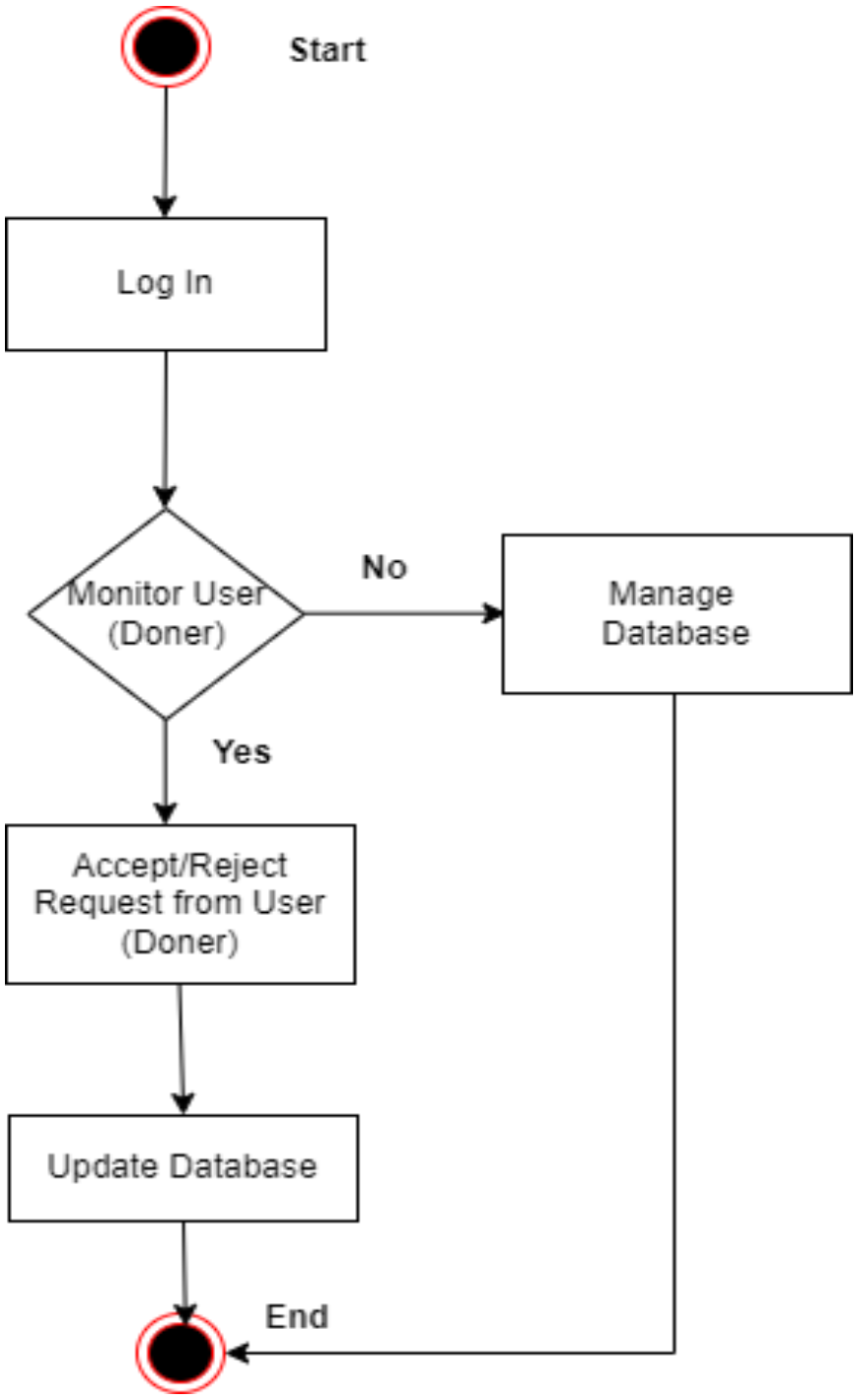


Sequence Diagram for User(Doner) :

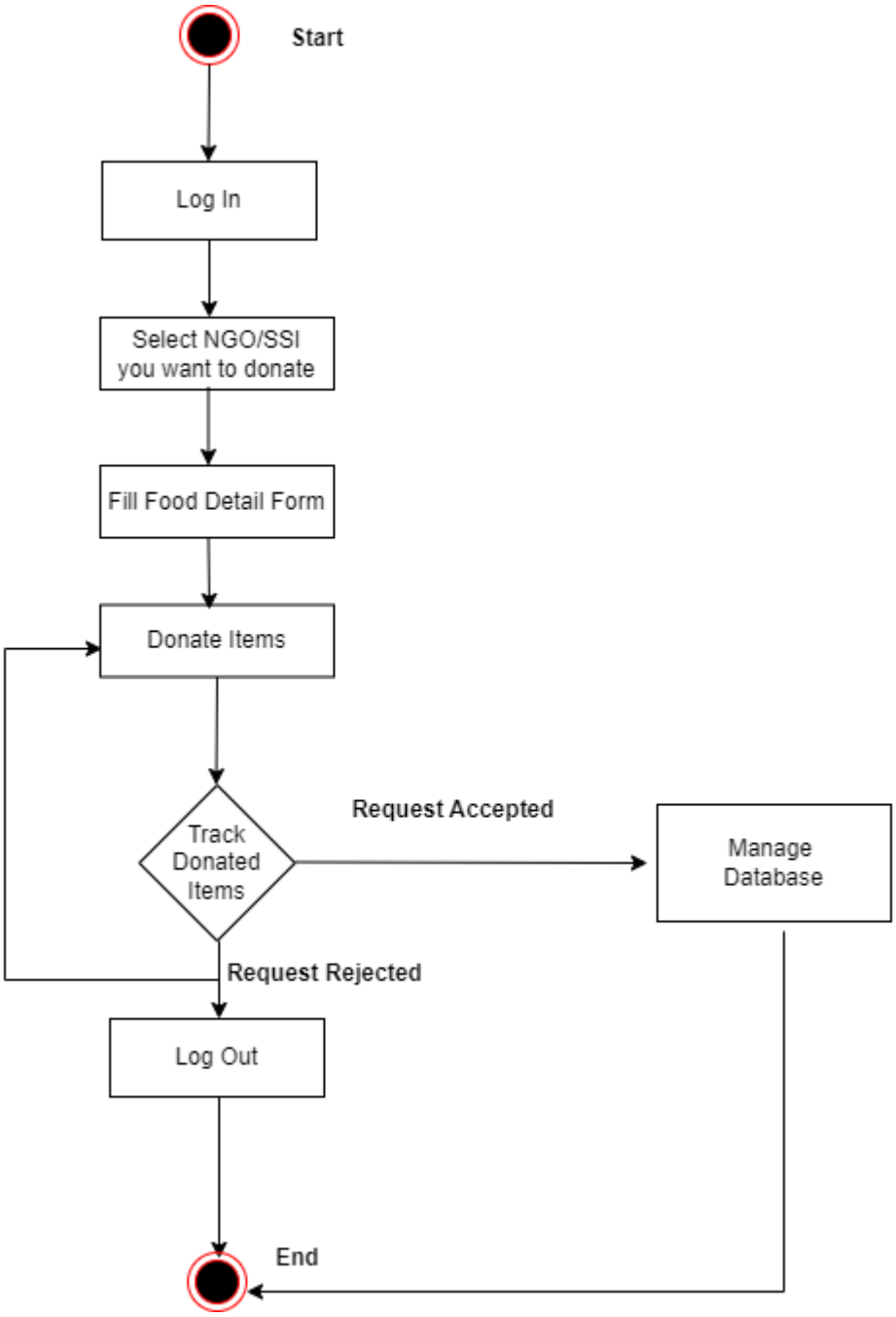


6.6 Activity Diagram

Activity Diagram For NGO/SSI :

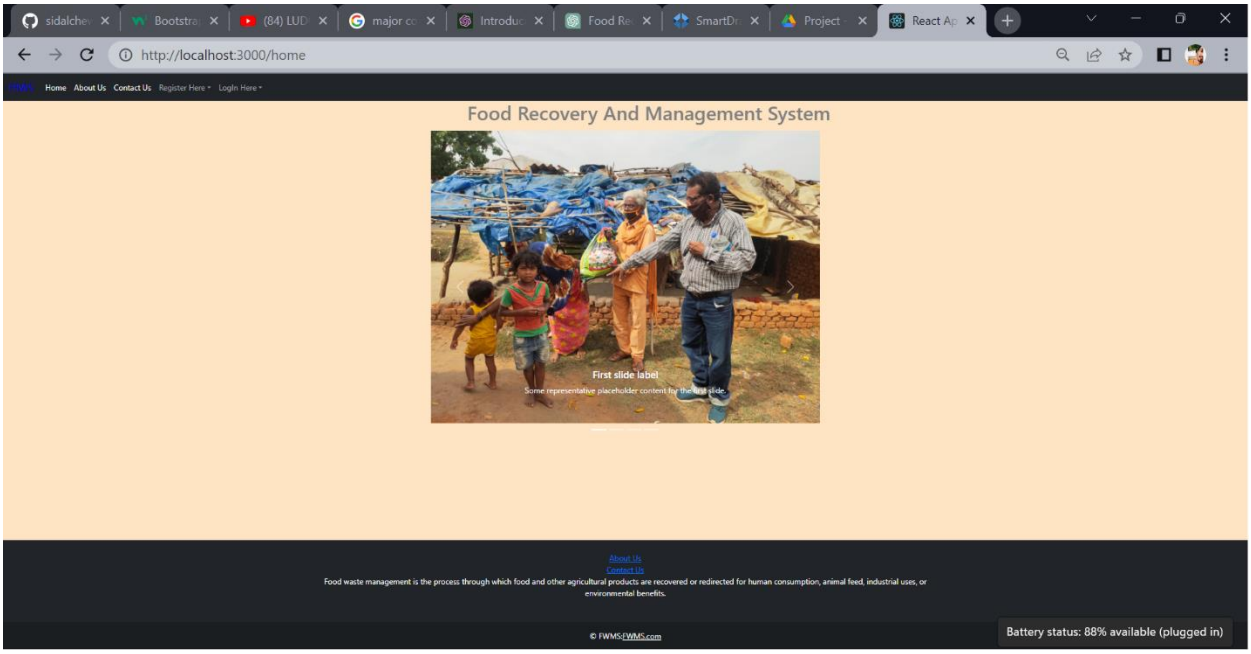


Activity Diagram For User (Doner) :

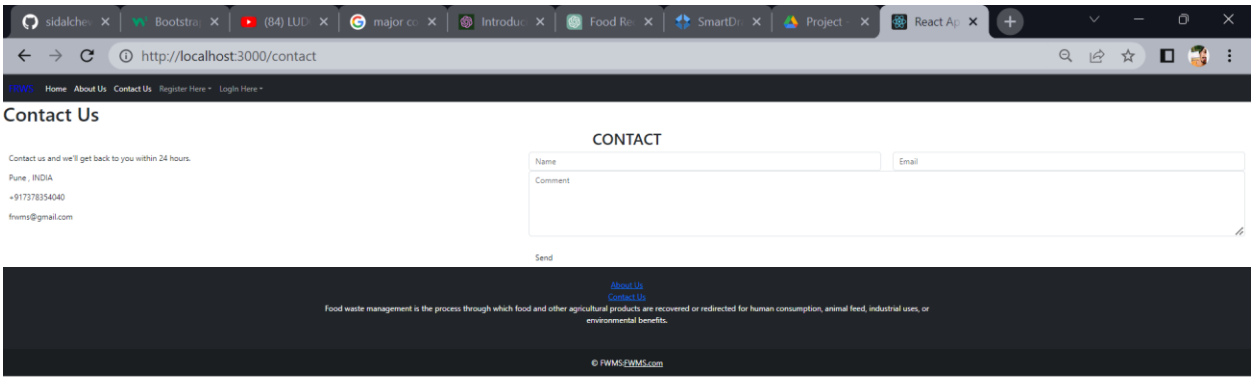


8. WORK FLOW OF WEB-APPLICATION(Screenshots)

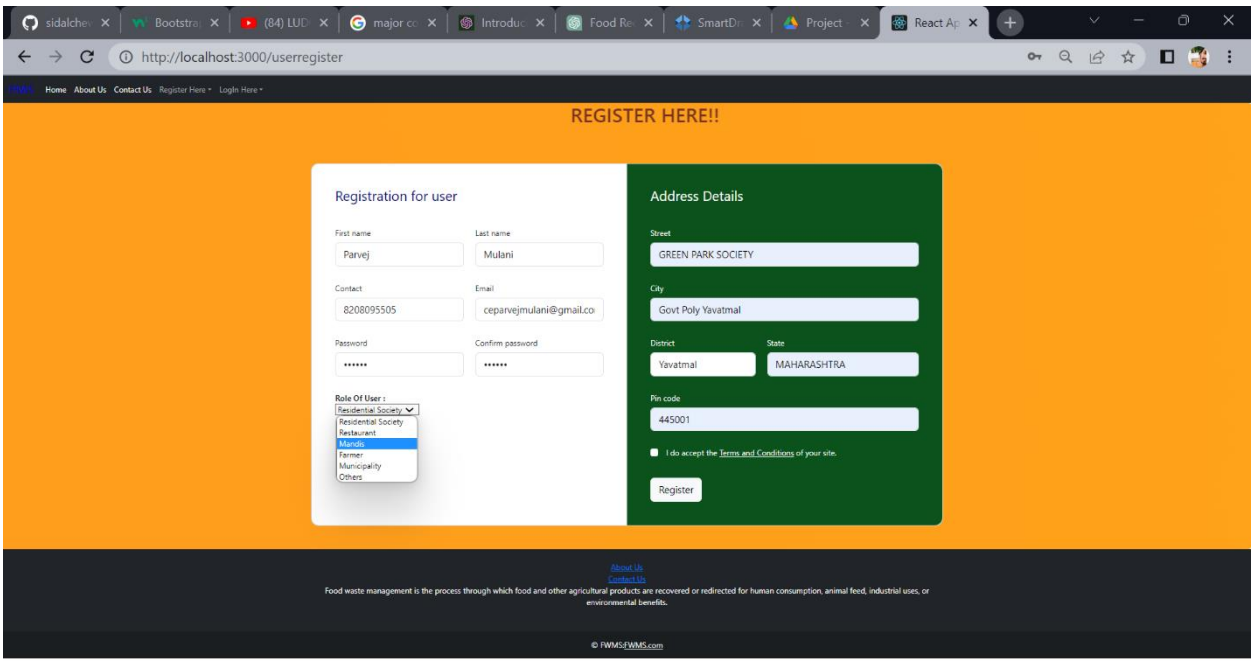
1. HOME PAGE



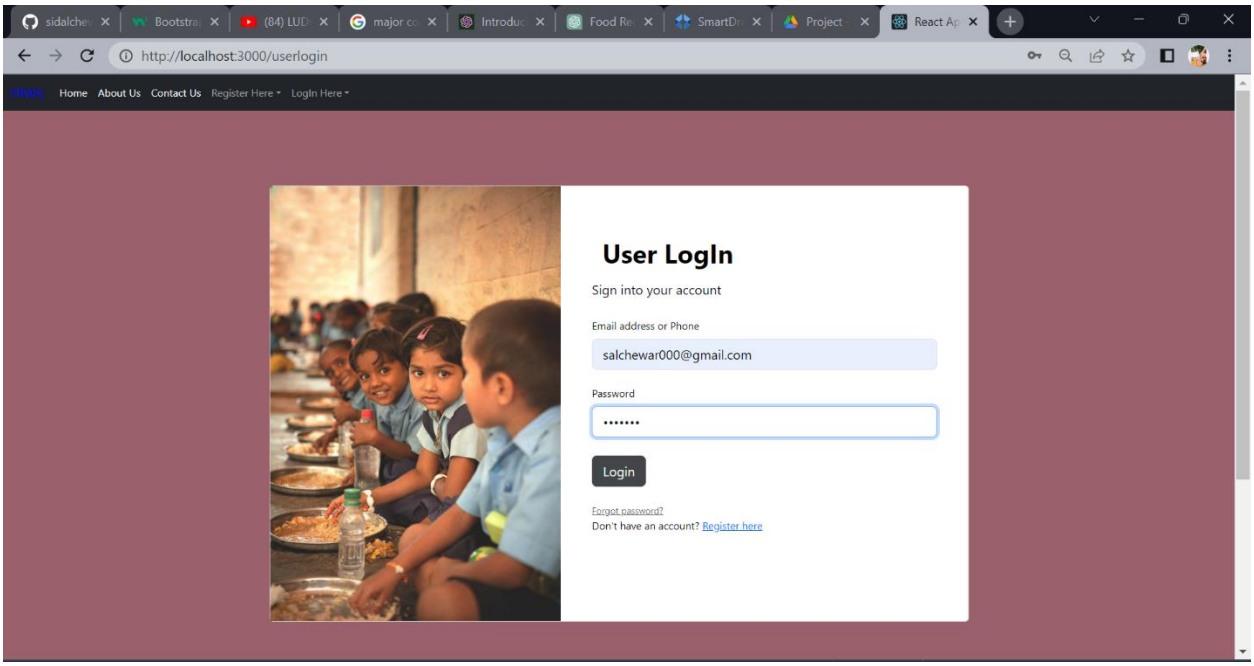
2. CONTACT US



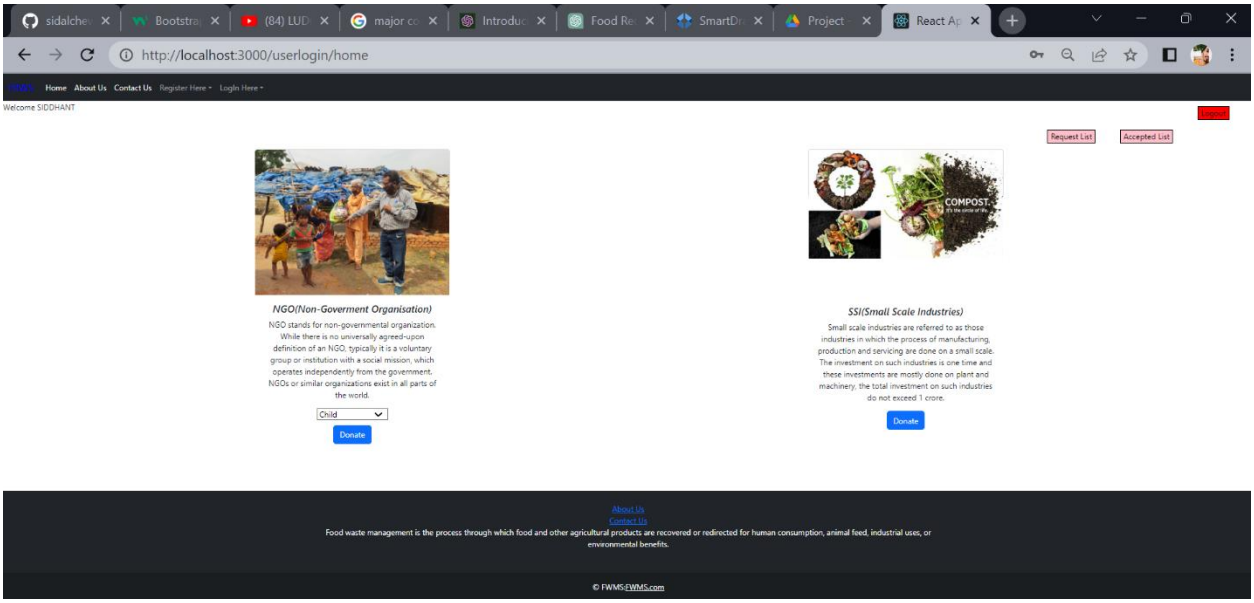
3. USER REGISTRATION



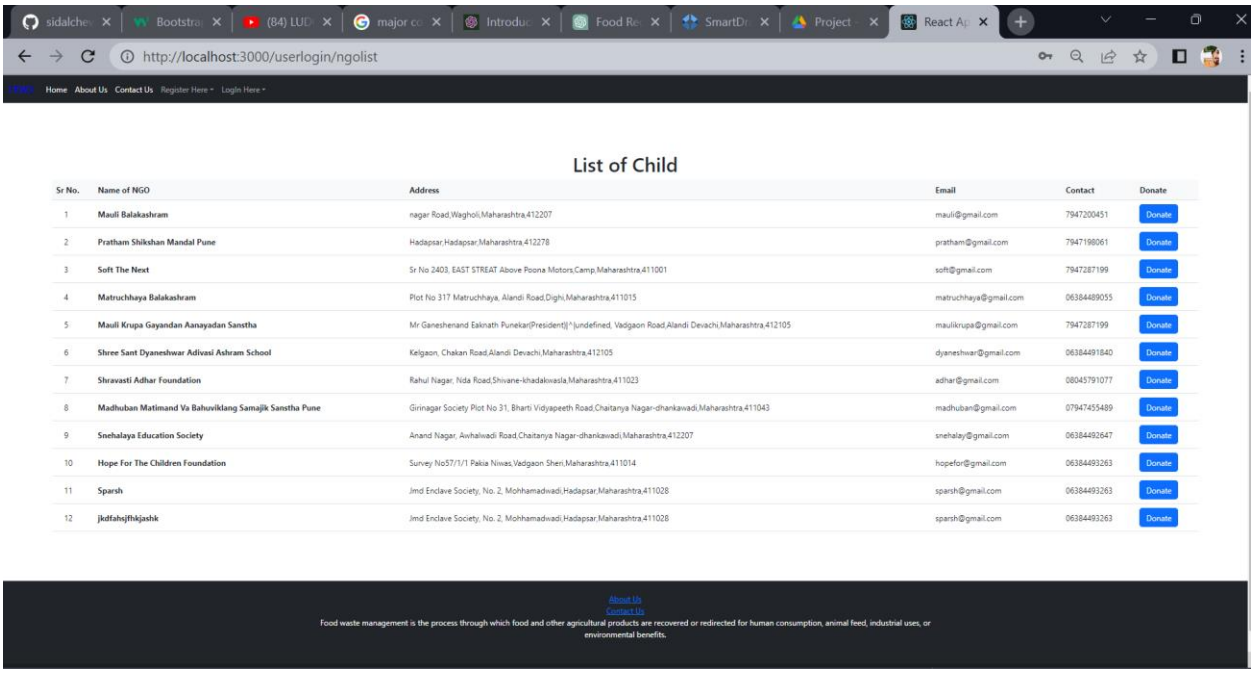
4. USER LOGIN



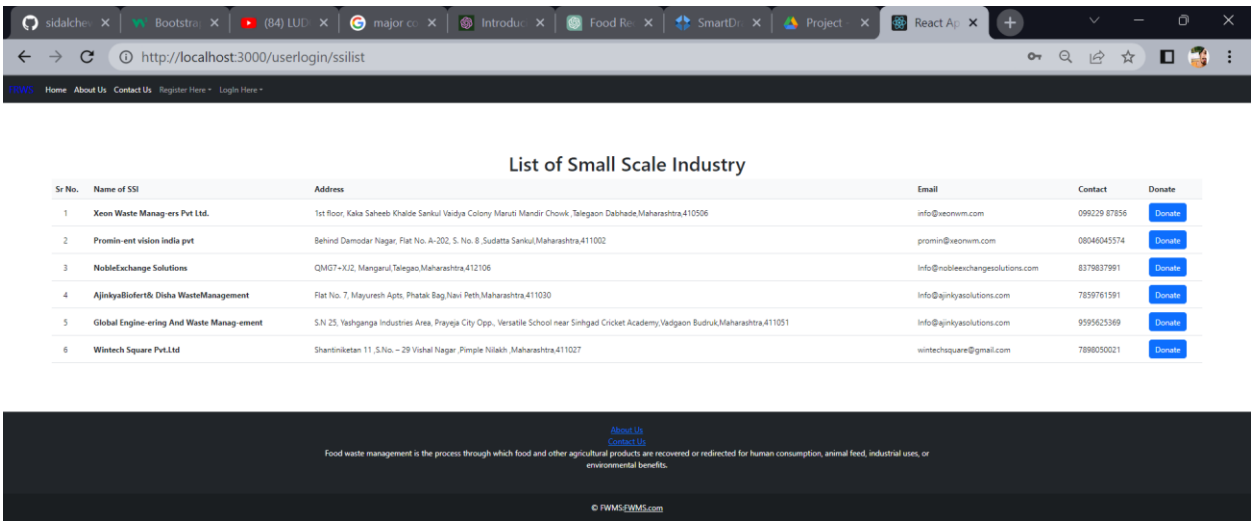
5. USER HOME



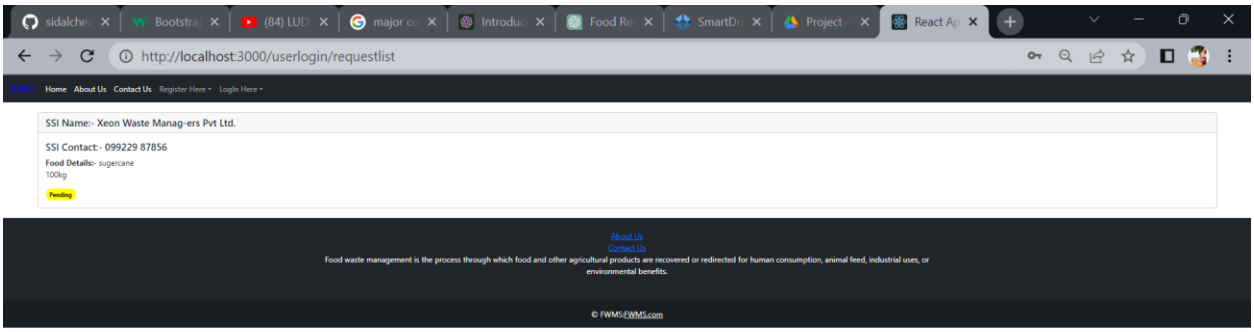
USER CAN CHECK LIST OF NGO'S



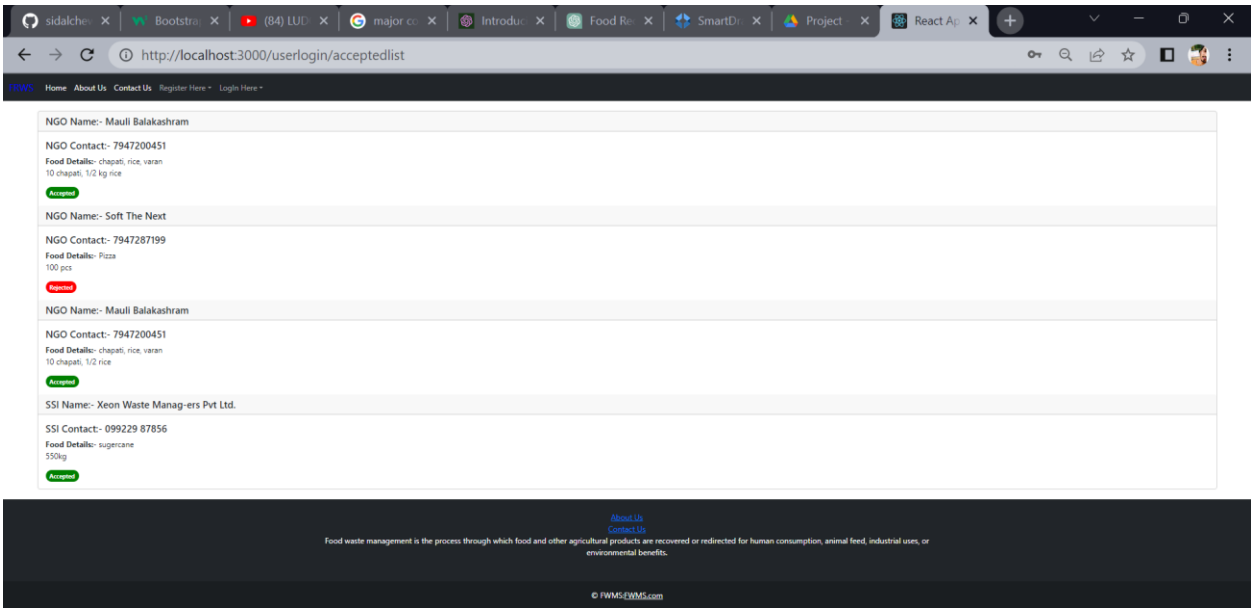
USER CAN CHECK LIST OF SSI'S



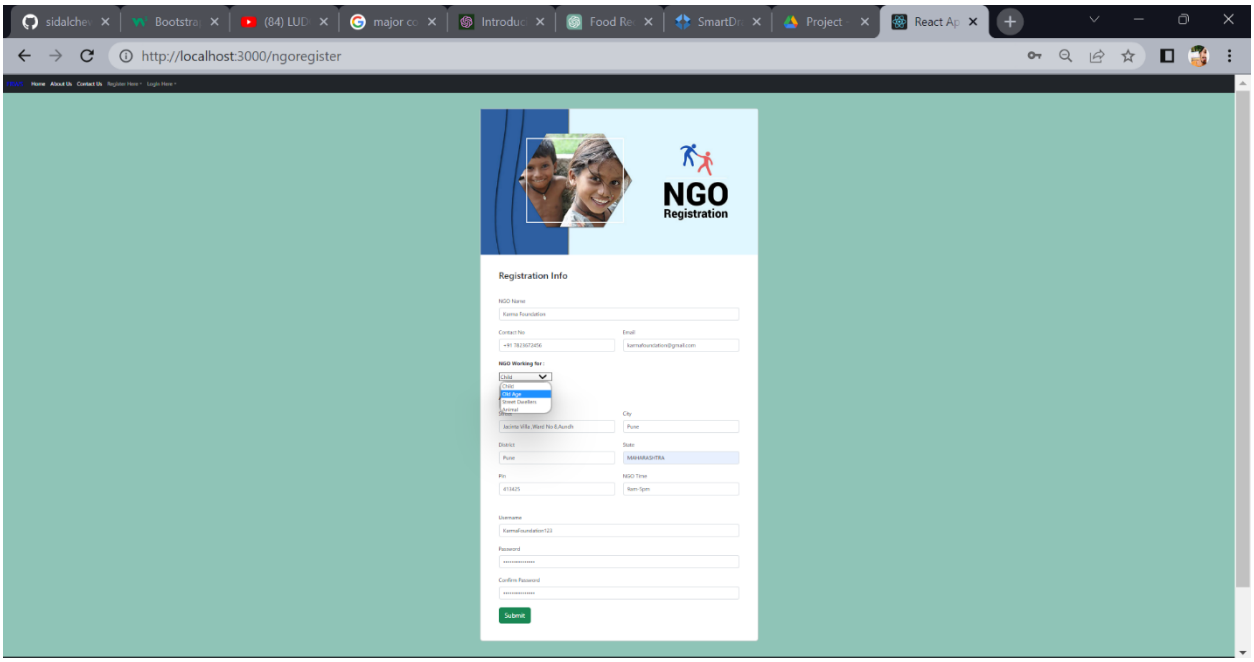
6. USER CHECK FOR A PENDING LIST



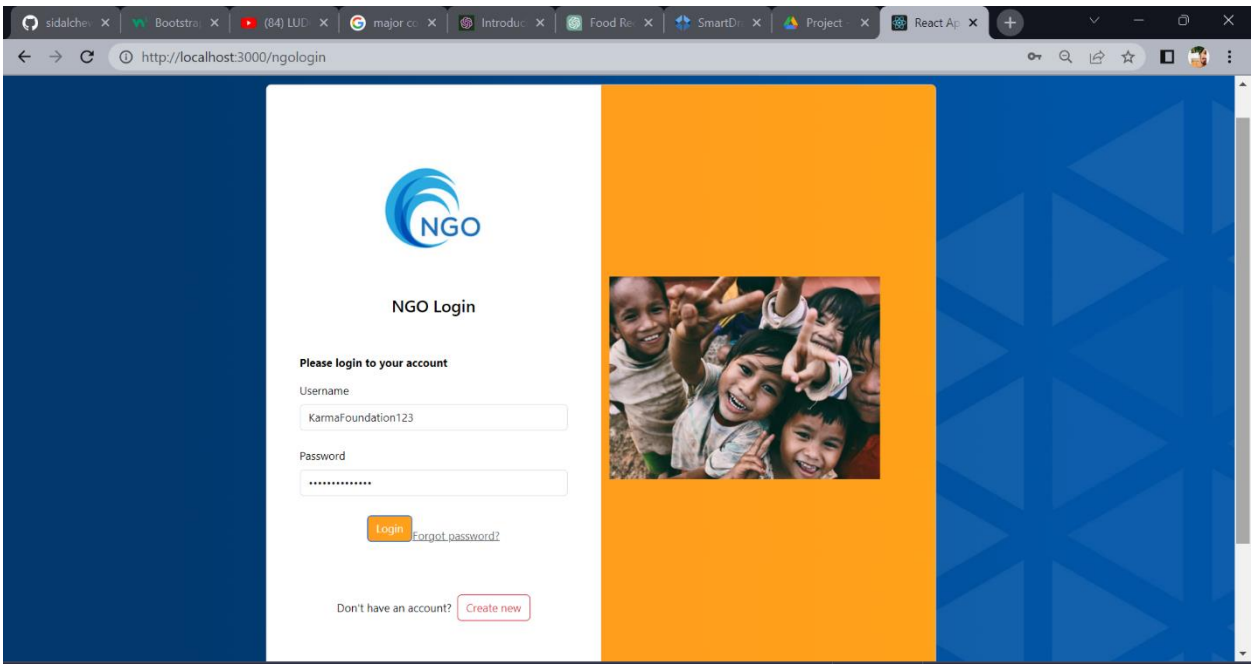
7. USER CHECK FOR ACCEPTED/REJECTED FORM LIST BY NGO/SSI



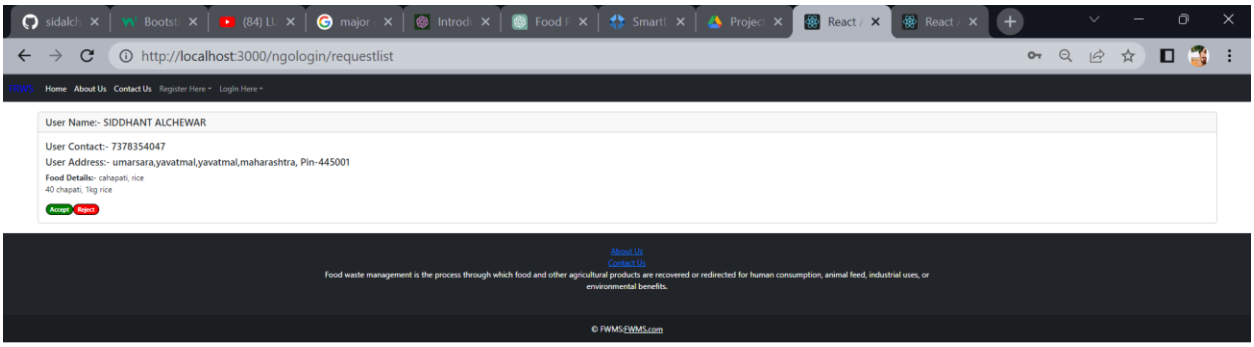
8. NGO REGISTRATION



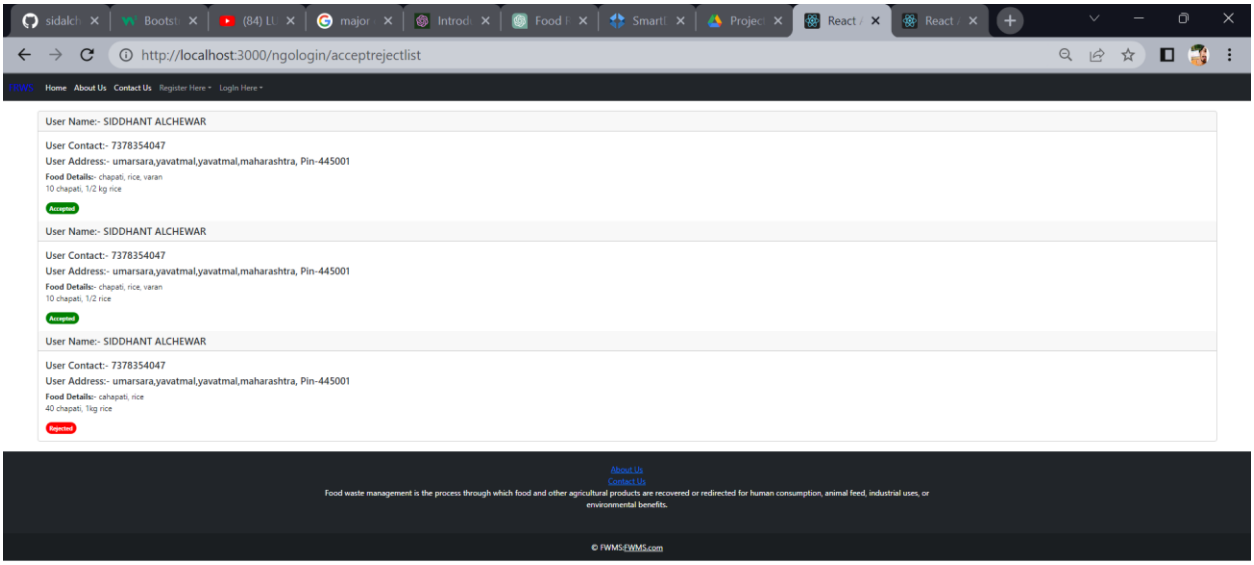
9. NGO LOGIN



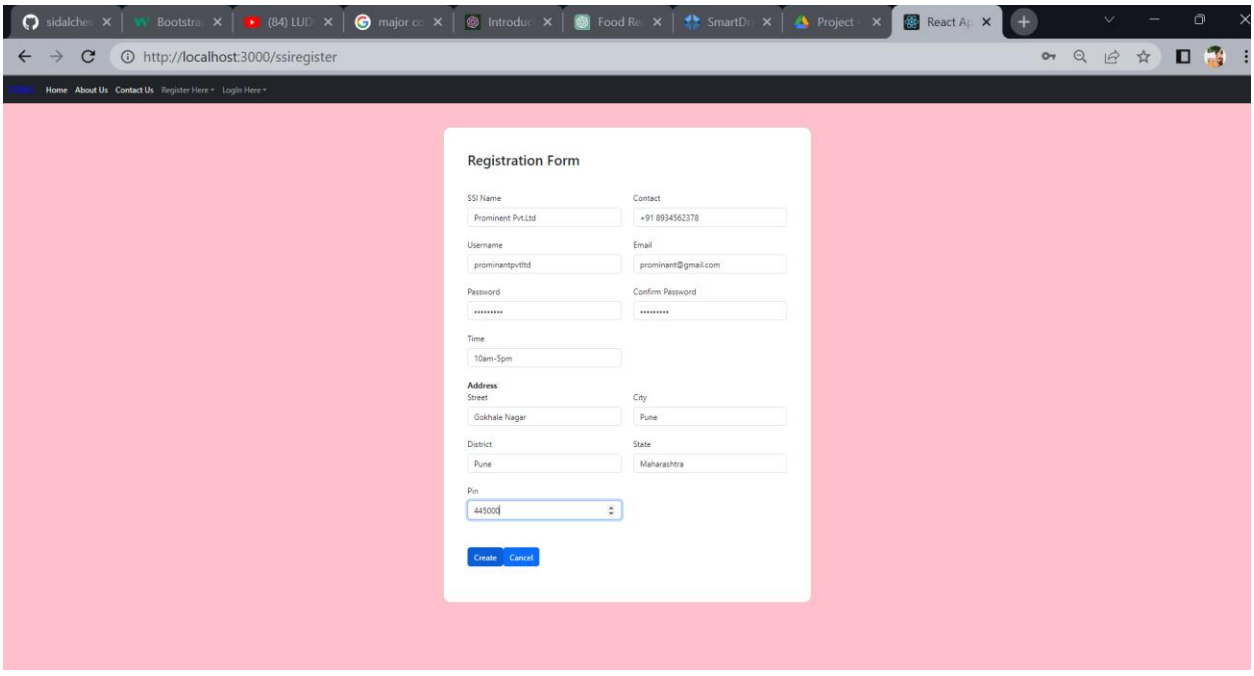
10. NGO CHECKS REQUEST FORM REQUESTED BY USER



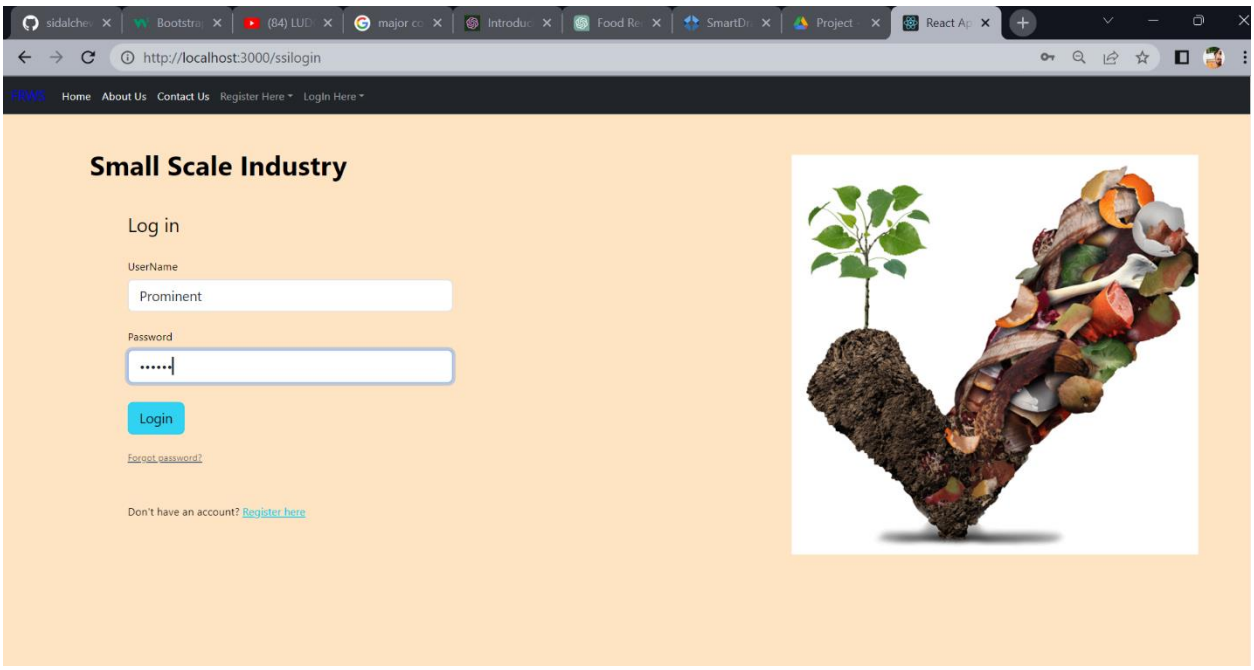
11. NGO CHECKS ACCEPTED/REJECTED REQUEST FORM



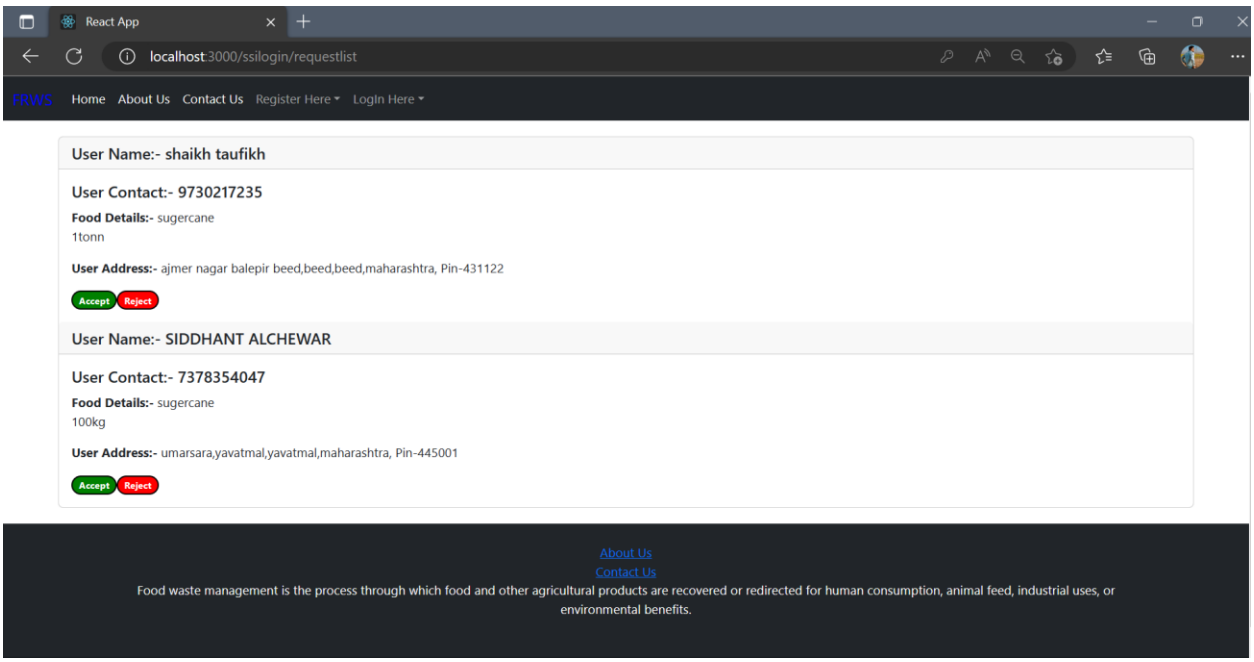
12. SSI REGISTRATION



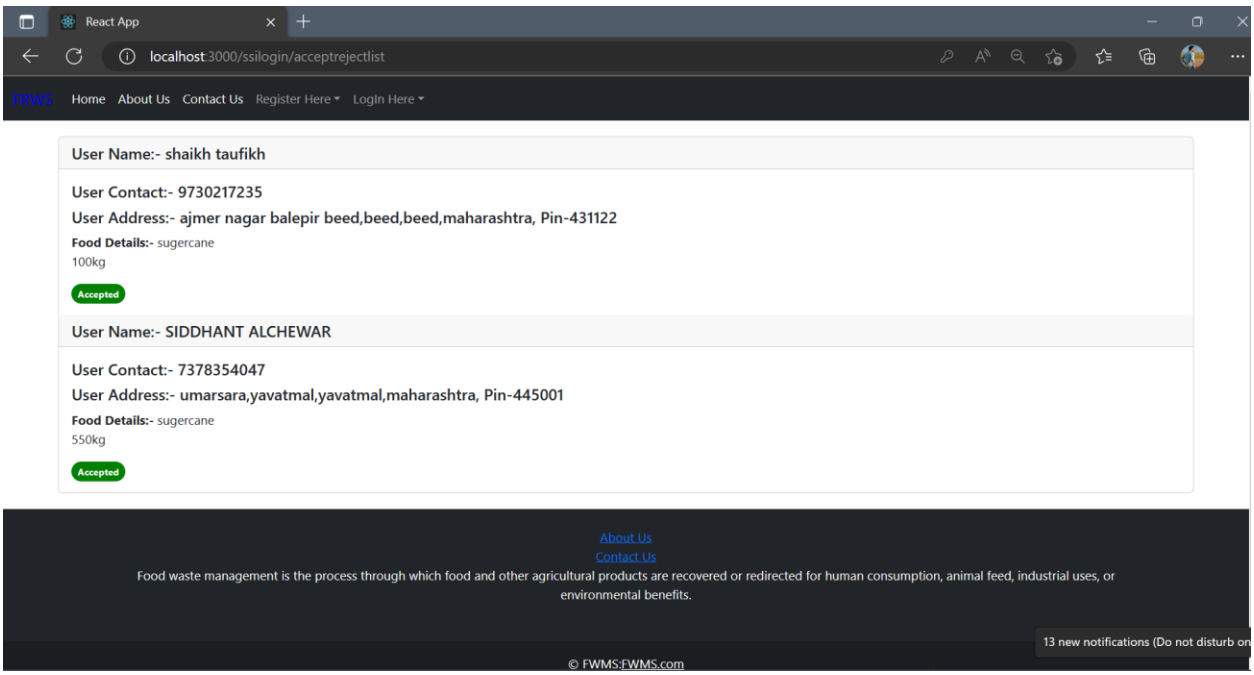
13. SSI LOGIN



14. SSI CHECKS REQUEST FORM REQUESTED BY USER



15. SSI CHECKS ACCEPTED/REJECTED REQUEST FORM



9. DATABASE

TABLES

Tables_in_fwms1
address
food_details
hibernate_sequence
ngo
ngo_address
ssi
ssi_address
user
user_address

USER

DESCRIPTION OF USER TABLE

Field	Type	Null	Key	Default	Extra
uid	int	NO	PRI	NULL	
email	varchar(255)	YES		NULL	
fname	varchar(255)	YES		NULL	
lname	varchar(255)	YES		NULL	
password	varchar(255)	YES		NULL	
phone	varchar(255)	YES		NULL	
role	int	NO		NULL	

DESCRIPTION OF USER ADDRESS TABLE

Field	Type	Null	Key	Default	Extra
aid	int	NO	PRI	NULL	
city	varchar(255)	YES		NULL	
dist	varchar(255)	YES		NULL	
pin	int	NO		NULL	
state	varchar(255)	YES		NULL	
street	varchar(255)	YES		NULL	

DESCRIPTION OF USER_ADDRESS JUNCTION TABLE

```
+-------------+------+------+-----+---------+-------+
| Field       | Type | Null | Key | Default | Extra |
+-------------+------+------+-----+---------+-------+
| user_uid    | int  | NO   | MUL | NULL    |       |
| address_aid | int  | NO   | PRI | NULL    |       |
+-------------+------+------+-----+---------+-------+
```

USER TABLE WITH DATA

```
mysql> SELECT * FROM USER;
+-----+-----------------------+----------+----------+----------+------------+------+
| uid | email                 | fname    | lname    | password | phone      | role |
+-----+-----------------------+----------+----------+----------+------------+------+
| 134 | salchewar000@gmail.com | SIDDHANT | ALCHEWAR | sid      | 7378354047 |    1 |
| 139 | tofiqshaikh@gmail.com  | shaikh   | taufikh  | abcd     | 9730217235 |    1 |
| 147 | abhisonone@gmail.com   | Abhishek | Sonone   | abhi     | 7378354047 |    1 |
+-----+-----------------------+----------+----------+----------+------------+------+
3 rows in set (0.01 sec)

mysql> SELECT * FROM ADDRESS;
+-----+----------+----------+--------+-------------+-------------------------+
| aid | city     | dist     | pin    | state       | street                  |
+-----+----------+----------+--------+-------------+-------------------------+
| 135 | yavatmal | yavatmal | 445001 | maharashtra | umarsara                |
| 140 | beed     | beed     | 431122 | maharashtra | ajmer nagar balepir beed |
| 148 | akola    | akola    | 445001 | maharashtra | eknath society          |
+-----+----------+----------+--------+-------------+-------------------------+
3 rows in set (0.01 sec)

mysql> SELECT * FROM USER_ADDRESS;
+----------+-------------+
| user_uid | address_aid |
+----------+-------------+
|      134 |         135 |
|      139 |         140 |
|      147 |         148 |
+----------+-------------+
3 rows in set (0.00 sec)
```

NGO

DESCRIPTION OF NGO TABLE

```
+--------------------+--------------+------+-----+---------+-------+
| Field              | Type         | Null | Key | Default | Extra |
+--------------------+--------------+------+-----+---------+-------+
| ngo_id             | int          | NO   | PRI | NULL    |       |
| ngo_email          | varchar(255) | YES  |     | NULL    |       |
| ngo_name           | varchar(255) | YES  |     | NULL    |       |
| ngo_password       | varchar(255) | YES  |     | NULL    |       |
| ngo_phone          | varchar(255) | YES  |     | NULL    |       |
| ngo_time           | varchar(255) | YES  |     | NULL    |       |
| ngo_username       | varchar(255) | YES  |     | NULL    |       |
| role_id            | int          | NO   |     | NULL    |       |
| ngo_address_ngo_aid | int          | YES  | MUL | NULL    |       |
+--------------------+--------------+------+-----+---------+-------+
```

DESCRIPTION OF NGO_ADDRESS TABLE

Field	Type	Null	Key	Default	Extra
ngo_aid	int	NO	PRI	NULL	
city	varchar(255)	YES		NULL	
district	varchar(255)	YES		NULL	
pin	int	NO		NULL	
state	varchar(255)	YES		NULL	
street	varchar(255)	YES		NULL	

NGO TABLE WITH DATA

```
mysql> SELECT * FROM NGO;
```

ngo_id	ngo_email	ngo_name	ngo_password	ngo_phone	ngo_time	ngo_username	role_id	ngo_address_ngo_aid
2	softnext@gmail.com	Soft The Next	pass1	7947287199	9:30 am – 8:30 pm	user1	2	3
4	manuskiseva@gmail.com	Manuski Old Age Home and Seva Sushrusha Kendra	pass2	7947198182	Open 24 Hrs	user2	2	5
8	vastsalya@gmail.com	Vatsalya Vridhashram & Matimand Mulanchi Niwasi Shala	pass3	7947062290	Open 24 Hrs	user3	2	9
10	babavrudhashram@gmail.com	Baba Vrudhashram and Nursing Care Centre	pass4	7947312285	Open 24 Hrs	user4	2	11
12	caringhands@gmail.com	Caring Hands Trust	pass5	7947204850	9:00 am – 9:00 pm	user5	2	13
14	kinara@gmail.com	Kinara Vruddha & Matimanda Seva Trust	pass6	7947432574	Open 24 Hrs	user6	2	15
16	santbabamonisaheb@gmail.com	Sant Baba Moni Saheb Vriddha Anand Ashram	pass7	0638449492635	9:00 am – 9:00 pm	user7	2	17
18	mahilashaktipratishthan@gmail.com	Mahila Shakti Pratishthan	pass8	06384492842	9:30 am – 6:30 pm	user8	2	19
20	vaishnavifoundation@gmail.com	Vaishnavi Foundation	pass9	06384492848	Open 24 Hrs	user9	2	21
22	saahara@gmail.com	Saahara Old Age Home	pass10	06384489269	8:00 am – 9:00 pm	user10	2	23
24	astha@gmail.com	Astha Old Age Home	pass11	06384492890	9:00 am – 9:00 pm	user11	2	25
26	team@resqct.org	RESQ Charitable Trust	pass12	98909 99111	11 AM–5 PM	user12	4	27
28	report@karmafoundation.ngo	Karma Foundation	pass13	–8390944337	10:00 am – 6:00 pm	user13	4	29
30	mayurpasare@gmail.com	Make New Life	pass14	9922819742, 9604451500	Open 24 Hrs	user14	4	31
32	info@animalrescuetrustpune.com	Animal Rescue Trust	pass15	+9172629554444	10:00 am – 5:45 pm	user15	4	33
34	animal@disease.com	Animal Disease Investigation Section	pass16	020 2569 1474	10:00 am – 5:45 pm	user16	4	35
36	pawsforacausencr@gmail.com	Paws For A Cause	pass17	9178654852	Open 24 Hrs	user17	4	37
38	info@sawct.org	Sinhgad Animal Welfare Charitable Trust	pass18	+91-93731488876	Open 24 Hrs	user18	4	39
40	animalwelfare@trustpune.org	Animal Welfare Trust Pune	pass19	+91-93731488876	Open 24 Hrs	user19	4	41
42	report@petfoundation.ngo	Pet Home	pass20	+91-93731468876	7:30 am – 6:00 pm	user20	4	43
44	report@Pranimal.ngo	Pranimal Foundation	pass21	96970 05454	10 am – 6:00 pm	user21	4	45
46	wildanimal@gmail.com	Wild Animal Rescue & Rehabilitation Center	pass22	020 2437 0747	10 am – 6:00 pm	user22	4	47
85	mauli@gmail.com	Mauli Balakashram	pass23	7947200451	9:00 am – 6:00 pm	user23	1	86
87	pratham@gmail.com	Pratham Shikshan Mandal Pune	pass24	7947198061	10:00 am – 5:00 pm	user24	1	88
89	soft@gmail.com	Soft The Next	pass25	7947287199	9:30 am – 8:30 pm	user25	1	90
91	matruchhaya@gmail.com	Matruchhaya Balakashram	pass26	06384489055	Open 24 Hrs	user26	1	92
93	maulikrupa@gmail.com	Mauli Krupa Gayandan Aanayadan Sanstha	pass27	7947287199	Open 24 Hrs	user27	1	94
95	dyaneshwar@gmail.com	Shree Sant Dyaneshwar Adivasi Ashram School	pass28	06384491840	Open 24 Hrs	user28	1	96
97	adhar@gmail.com	Shravasti Adhar Foundation	pass29	08045791077	Open 24 Hrs	user29	1	98
99	madhuban@gmail.com	Madhuban Matimand Va Bahuviklang Samajik Sanstha Pune	pass30	07947455489	Open 24 Hrs	user30	1	100
101	snehalay@gmail.com	Snehalaya Education Society	pass31	06384492647	9:00 am – 5:00 pm	user31	1	102
103	hopefor@gmail.com	Hope For The Children Foundation	pass32	06384493263	10:00 am – 5:00 pm	user32	1	104
105	sparsh@gmail.com	Sparsh	pass33	06384493263	10:00 am – 7:30 pm	user33	1	106
110	sparsh@gmail.com	jkdfahsjfhkjashk	pass33	06384493263	10:00 am – 7:30 pm	user33	1	111
112	http://shikshangram.com/	Shikshangram Shelter for Homeless Children	pass34	91 93732 35894	9am to 9pm	user34	3	113
114	http://asha-kiran.org.in/	Asha-Kiran Shelters Foundation	pass35	91 20 2605 4100	10am to 9pm	user35	3	115
116	https://maherashram.org/	Maher Ashram	pass36	91 90110 86134	8am to 6pm	user36	3	117
118	http://www.tathapi.org/	Tathapi Trust – Women And Health Resource Development	pass37	91823 702 4849	8am to 8pm	user37	3	119
120	http://www.snehalaya.org	Snehadhar Sankul	pass38	+91 90110 33011	11am to 9pm	user38	3	121
122	http://www.cmmpune.org/	Chaitanya Mahila Mandal	pass39	+91 94220 04152	7am to 8pm	user39	3	123
124	http://www.savalimrcp.org/	SAVALI ? A Shelter for Care	pass40	+91 20 2528 2379	10am to 9pm	user40	3	125
126	https://www.facebook.com/pg/Dhanyawad-Bungalow-...	Dhanyawad Bungalow Girl's Hostel	pass41	+91 99236 25050	10am to 6pm	user41	3	127
128	http://shivgangaoldagehome.com/	Shivganga Vrudhaashram	pass42	+91 20 2686 7455	8am to 9pm	user42	3	129
130	http://rainbowhome.in/	Rainbow Foundation India	pass43	+91 99495 40009	9am to 9pm	user43	3	131
132	http://deepgriha.org/	Deep Griha Society	pass44	+91 20 4018 7373	11am to 5pm	user44	3	133

45 rows in set (0.01 sec)

SSI

DESCRIPTION OF SSI TABLE

Field	Type	Null	Key	Default	Extra
ssi_id	int	NO	PRI	NULL	
ssi_email	varchar(255)	YES		NULL	
ssi_name	varchar(255)	YES		NULL	
ssi_password	varchar(255)	YES		NULL	
ssi_phone	varchar(255)	YES		NULL	
ssi_time	varchar(255)	YES		NULL	
ssi_username	varchar(255)	YES		NULL	
ssi_address_ssi_aid	int	YES	MUL	NULL	

DESCRIPTION OF SSI_ADDRESS TABLE

Field	Type	Null	Key	Default	Extra
ssi_aid	int	NO	PRI	NULL	
city	varchar(255)	YES		NULL	
district	varchar(255)	YES		NULL	
pin	int	NO		NULL	
state	varchar(255)	YES		NULL	
street	varchar(255)	YES		NULL	

SSI TABLE WITH DATA

```
mysql> SELECT * FROM SSI;
```

ssi_id	ssi_email	ssi_name	ssi_password	ssi_phone	ssi_time	ssi_username	ssi_address_ssi_aid
69	info@xeonwm.com	Xeon Waste Manag-ers Pvt Ltd.	pass1	099229 87856	9am to 6pm	user1	70
71	promin@xeonwm.com	Promin-ent vision india pvt	pass2	08046045574	9 am to 9 pm	user2	72
77	Info@nobleexchangesolutions.com	NobleExchange Solutions	pass3	8379837991	9am to 9pm	user3	78
79	Info@ajinkyasolutions.com	AjinkyaBiofert& Disha WasteManagement	pass4	7859761591	9am to 9pm	user4	80
81	Info@ajinkyasolutions.com	Global Engine-ering And Waste Manag-ement	pass5	9595625369	10AM to 6PM	user5	82
83	wintechsquare@gmail.com	Wintech Square Pvt.Ltd	pass6	7898050021	9AM to 6PM	user6	84

FOOD DETAILS

DESCRIPTION OF FOOD DETAILS

Field	Type	Null	Key	Default	Extra
food_id	int	NO	PRI	NULL	
feed_count	int	NO		NULL	
feed_qty	varchar(255)	YES		NULL	
food_items	varchar(255)	YES		NULL	
food_quality_in_days	int	NO		NULL	
ngo_contact	varchar(255)	YES		NULL	
ngo_id	int	NO		NULL	
ngo_name	varchar(255)	YES		NULL	
ssi_contact	varchar(255)	YES		NULL	
ssi_id	int	NO		NULL	
ssi_name	varchar(255)	YES		NULL	
status	varchar(255)	YES		NULL	
user_address	varchar(255)	YES		NULL	
user_contact	varchar(255)	YES		NULL	
user_id	int	NO		NULL	
user_name	varchar(255)	YES		NULL	

FOOD_DETAILS TABLE WITH DATA

mysql> SELECT * FROM FOOD_DETAILS;

food_id	feed_count	feed_qty	food_items	food_quality_in_days	ngo_contact	ngo_id	ngo_name	ssi_contact	ssi_id	ssi_name	status	user_address	user_contact	user_id	user_name
136	10	10 chapati, 1/2 kg rice	chapati, rice, varan	1	7947200451	85	Mauli Balakashram	NULL	0	NULL	accepted	umarsara,yavatmal,yavatmal,maharashtra, Pin-445001	7378354047	134	SIDDHANT ALCHEWAR
137	100	100 pcs	Pizza	1	7947287199	89	Soft The Next	NULL	0	NULL	rejected	umarsara,yavatmal,yavatmal,maharashtra, Pin-445001	7378354047	134	SIDDHANT ALCHEWAR
141	0	1tonn	sugercane	15	NULL	0	NULL	NULL	69	Xeon Waste Manag-ers Pvt Ltd.	pending	ajmer nagar balepir beed,beed,beed,maharashtra, Pin-431122	9730217235	139	shaikh taufikh
142	10	30 chapati, 1/2 kg rice	chapati, rice, varan	1	91 93732 35894	112	Shikshangram Shelter for Homeless Children	NULL	0	NULL	accepted	ajmer nagar balepir beed,beed,beed,maharashtra, Pin-431122	9730217235	139	shaikh taufikh
143	0	100kg	sugercane	15	NULL	0	NULL	099229 87856	69	Xeon Waste Manag-ers Pvt Ltd.	pending	umarsara,yavatmal,yavatmal,maharashtra, Pin-445001	7378354047	134	SIDDHANT ALCHEWAR
144	10	10 chapati, 1/2 rice	chapati, rice, varan	1	7947200451	85	Mauli Balakashram	NULL	0	NULL	accepted	umarsara,yavatmal,yavatmal,maharashtra, Pin-445001	7378354047	134	SIDDHANT ALCHEWAR
145	0	100kg	sugercane	15	NULL	0	NULL	099229 87856	69	Xeon Waste Manag-ers Pvt Ltd.	accepted	ajmer nagar balepir beed,beed,beed,maharashtra, Pin-431122	9730217235	139	shaikh taufikh
146	0	550kg	sugercane	20	NULL	0	NULL	099229 87856	69	Xeon Waste Manag-ers Pvt Ltd.	accepted	umarsara,yavatmal,yavatmal,maharashtra, Pin-445001	7378354047	134	SIDDHANT ALCHEWAR
149	10	30 chapati, 1/2 kg rice	chapati, rice, varan	1	91 93732 35894	112	Shikshangram Shelter for Homeless Children	NULL	0	NULL	pending	eknath society,akola,akola,maharashtra, Pin-445001	7378354047	147	Abhishek Sonone
150	10	40 chapati, 1kg rice	cahapati, rice	1	7947200451	85	Mauli Balakashram	NULL	0	NULL	rejected	umarsara,yavatmal,yavatmal,maharashtra, Pin-445001	7378354047	134	SIDDHANT ALCHEWAR

10 rows\ n set (0.00 sec)

9. REFERENCES

https://mdbootstrap.com/docs/standard/extended/login/

https://freefrontend.com/

https://www.researchgate.net/publication/333708355_Food_Waste_Management

https://stackoverflow.com/

https://www.w3schools.com/

https://reactjs.org/docs/getting-started.html