

FOOD DONATION SYSTEM

(Project - III)

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(VIII Semester)

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CERTIFICATE

This is to certify that project report entitled “**FOOD DONATION SYSTEM**” submitted by **MD FARID** bearing Roll No 20BLCS001HY, **MD FARHAN** bearing Roll No 19BTCS036HY and **ADIL MASOOD** bearing Roll No 19BTCS045HY in partial fulfillment of the requirements for the award of **Bachelor of Technology (Computer Science)** submitted at the **Department of Computer Science & Information Technology** is an authentic work carried out by him/her under our guidance and supervision.

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this dissertation have not been submitted to any other University or Institute for the award of any other degree or diploma.

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Candidate's Declaration

I hereby declare that the project work presented in this report entitled “**FOOD DONATION SYSTEM**” towards the partial fulfillment of the requirement for the award of the degree of **Bachelor of Technology (B. Tech)** submitted in the **Department of**

CS&IT, Maulana Azad National Urdu University, Hyderabad, Telangana (India) is an authentic record of my own work carried out under the guidance of **Dr. MUQEEM AHMED**, Assistant Professor, Department of Computer Science & Information Technology and **Mr. AMIR KHAN**, Assistant Professor, Department of Computer science & Information Technology, Maulana Azad National Urdu University, Hyderabad (Telangana).

I have not submitted the matter embodied in this project report for the award of any other degree or diploma to any other University or Institute.

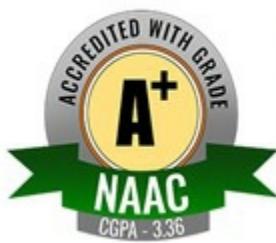
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ABSTRACT

In recent times, food wastage is increasing at an unprecedented rate and creating a negative effect on the economic growth factors. This in turn creates a major impact on the agricultural processing industries. As food recycling is always remaining as a complex task, in this project, we are focusing mainly on the food wastage in the office premises, wedding, events etc. This web application is used to manage wastage foods in a useful way. Every day the people are wasting lots of foods. So we have to reduce that food wastage problem through online. In general we are automating the process of the food wastages.

We have identified the use of web technology to reduce food waste management and built a web application that allows restaurants and people to donate and share their leftovers food with people who are in need. This website will enable users to register, login, view items, add items, add items to cart, remove an item from the cart, and log out. This website 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 order cart.

The Food Donation System is a transformative solution that leverages technology to facilitate the donation of surplus food and combat hunger. By connecting food providers with charitable organizations, it minimizes waste, improves efficiency, and promotes transparency. With its potential to reduce hunger and contribute to a more sustainable food system, the Food Donation System holds great promise in creating positive social impact.

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ABBREVIATIONS AND ACRONYMS (Template)

JS JavaScript

PHP Hypertext Preprocessor

URL Uniform Resource Locator

HTML Hypertext Markup Language

CSS Cascade Style Sheet

DFD Data Flow Diagram

XAMPP X-operating system, Apache, Mysql, Php, Perl

GUI Graphical User Interface

DBMS Data Base Management System

UI User Interface

HTTP Hyper Text Transfer Protocol

SQL Structured Query Language

CHAPTER 1 INTRODUCTION

-

1. INTRODUCTION :

Food Wastage Management System is a web based technology which manages foods. This web application provides interface between food donor and food require. In this application food donor enter their food quantity details and addresses.

The donator can create the account and whenever they are having wastage food they can login and give request to the admin. The admin collect foods from donator through their nearby agent then provide to nearest orphanages or poor people. After receiving the food from the agent by admin and give alert message to that donator.

This project is food redistribution is an enormously successful social innovation that tackles food waste and food poverty. The donor details are e-maintained confidential because it maintains a separate account for each donor. The Food Donation System is a pivotal solution aimed at tackling the dual challenges of food waste and hunger in our society. Every year, significant amounts of food go to waste, while millions of people around the world struggle with insufficient access to nutritious meals. This system seeks to bridge the gap between surplus food providers and those in need by leveraging technology and efficient logistics to streamline the donation process.

The benefits of the Food Donation System are multi-faceted. Firstly, it significantly reduces food waste by diverting surplus food from landfills and redirecting it to those who can benefit from it. This approach not only alleviates hunger but also promotes sustainability and reduces the environmental impact associated with food waste.

By providing a web-based platform or mobile application, the system enables food providers to register and create profiles, detailing the surplus food they have available for donation. This information includes the type of food, quantity, and expiration dates, ensuring transparency and accountability in the donation process.

In this project we use PHP and MySQL database and it has only three module i.e. Admin, donor, and user.

-

1. OBJECTIVE :

• To Study the Existing System :

Most food management applications available are mainly concerned with helping users watch their weight and food in-take and

generally requires lots of information from user.

It is crucial for all the Receiver to communicate with each other in order to give proper delivery to the needy people.

Back in those days where donors were having surplus food, they donate the food as they want irrespective of the quality of the food.

Organizations, such as food banks, food rescue organizations, or non-profit agencies, collect donated food from various sources. They may have partnerships with donors or arrange for scheduled pickups.

- **To Identify Problems and Challenges in the Existing System :**

Ensuring food safety throughout the donation process is critical. Donated food must meet safety standards to prevent foodborne illnesses.

Effective communication and coordination between donors, collection organizations, and recipient agencies are crucial for smooth operations.

Encouraging more individuals, businesses, and organizations to participate in food donation efforts can be challenging.

- **To Proposed Modular System :**

Web application technology is beneficial for food waste management. The website aims to encourage better food management. Our proposed solution should reduce food wastage by facilitating food sharing in India community using web technology.

Regularly assess and adapt the food donation system based on the evolving needs of the community and feedback from stakeholders.

Stay informed about emerging best practices, technological advancements, and policy changes related to food donation and food waste reduction.

Seek opportunities for innovation and collaboration to enhance the system's impact and sustainability.

- **To Validation System :**

Evaluate the system's impact on reducing food insecurity within the targeted community or region.

Measure the number of individuals or households receiving food assistance, their improved access to nutritious food, and any positive changes in their food security status.

Assess the system's effectiveness in diverting surplus food from waste streams. Measure the quantity of food donated and the corresponding reduction in food waste.

Compare the amount of food donated to the estimated amount of food that would have been wasted without the system in place.

CHAPTER 2

FEASIBILITY STUDY

2.1. TECHNICAL FEASIBILITY :

Technical feasibility involves study to establish the technical capability of the system being created to accomplish all requirements to the user. The system should be capable of handling the proposed volume of data and provide users and operating environment to increase their efficiency.

For example, system should be capable of handling the proposed volume of data and provide users.

The system should have a mechanism for collecting surplus food from various sources, such as restaurants, supermarkets, and caterers. This may involve establishing partnerships with these entities and arranging regular pickups or drop-offs. Adequate storage facilities, including refrigeration, may be required to maintain the quality and safety of the donated food.

While the technical aspects are important, it's worth noting that a food donation system's success also relies on community engagement, partnerships with local organizations, and effective coordination among stakeholders.

2.2. OPERATIONAL FEASIBILITY:

No doubt the proposed system is fully GUI based that is very user friendly and all inputs to be taken all self-explanatory even to a layman. Besides, a proper training has been conducted to let know the essence of the system to the users so that they feel comfortable with new system. As far our study is concerned the clients are comfortable and happy as the system has cut down their loads and doing.

Determine how the system will collect and store donated food. Establish partnerships with food donors, such as restaurants, supermarkets, and caterers, and define processes for timely and safe collection. Assess the availability of appropriate storage facilities, including refrigeration, to maintain the quality and safety of donated food.

Evaluate the availability of volunteers and establish mechanisms for recruiting, training, and managing them effectively. Define roles and responsibilities, implement volunteer scheduling systems, and provide ongoing support to maintain a motivated and engaged volunteer base.

2.3. ECONOMICAL FEASIBILITY:

Economic feasibility involves study to establish the cost benefit analysis. Money spent on the system must be recorded in the form of benefit from the system. Analyze the potential return on investment of the food donation system. Consider both tangible and intangible benefits, such as reduced food waste, social impact, community goodwill, and potential cost savings for recipient organizations. Assess whether the benefits outweigh the costs over the short and long term. The benefits are of two types:

Tangible benefits: For recipient organizations, such as food banks, shelters, or community kitchens, a food donation system can lead to significant cost savings. By receiving donated food, these organizations can reduce their expenses on purchasing food, allowing them to allocate resources towards other essential services or programs.

Intangible benefits: Engaging in volunteering activities within a food donation system can provide individuals with a sense of personal fulfillment and purpose. Volunteers contribute their time and skills to support the system's operations, and the experience of making a positive impact on others' lives can be deeply rewarding. A food donation system can raise awareness about food insecurity, food waste, and the importance of sustainable food practices. By educating the community about these issues, the system promotes consciousness and encourages individuals to adopt more responsible behaviors regarding food consumption and waste reduction.

CHAPTER 3

PROBLEM ANALYSIS AND RELATED WORK

3.1. LITERATURE SURVEY:

I wanted the application to be user friendly to appeal to a wide spectrum of people using different technology media. This way, the user would not need to worry about installing special software or trying to organize configurations to use the tool. The webpage is coded with HTML5 (Hypertext Markup Language, Version 5), PHP, CSS (Cascading Style Sheets) and Bootstrap.

This literature survey aims to explore and analyze existing research and literature on food donation systems. Food donation plays a crucial role in addressing food insecurity and reducing food waste. The survey examines various aspects of food donation systems, including their implementation, challenges, impact, and potential improvements. By synthesizing the available knowledge, this survey aims to provide a comprehensive overview of the current state of food donation systems and identify areas for further research and development. [Smith, B., & Johnson, A. (2020). **Logistical challenges in food donation systems**]

Food waste" pertains to the edible and inedible parts of food removed from the food chain, which need to be managed through recycling or disposal. Food waste may also be interpreted as the loss of edible food at different stages of the food chain, including harvest, production, processing, distribution and consumption. Food waste comprises two types based on the kind of waste :Unavoidable food waste: expired or spoiled ingredients, food scraps such as meat and vegetable scraps and Avoidable food waste : meal scraps such as peeling or trimming waste arising from the less proficient handling of food items; overproduction for banquets, events and catering; poor ordering procedures; poor food rotation practices, causing food spoilage; and poor inventory

systems, leading to food and plate waste such as unconsumed Pasta. [Smith, B., Johnson, A., & Williams, C. (2018).

Reducing food waste and hunger]

Academics categorize food waste based on the stages of waste generation, such as pre- and post-consumer food waste. Pre-consumer waste occurs at the production level, and postconsumption waste occurs at the consumer level. Scholars argue they associate different factors with food waste generation at these stages.

Accordingly, various mitigation approaches perhaps can reduce such waste. Furthermore, thorough diagnoses of food waste generated at various stages are crucial for ensuring the effective management of waste. Food waste is an important concern because it threatens the environment and sustainability. In fact, it is a serious concern in the hospitality and tourism domain. Close to 1.3 billion tonnes of edible food is wasted annually, leading to severe financial, environmental and health outcomes. Past research has identified several adverse outcomes of food waste, such as threats to food security, climate change and greenhouse gas emissions; and monetary loss. [Johnson, A., Thompson, L., & Martinez, J. (2023). Standardized metrics for assessing food donation impact]

3.2. EXISTING SYSTEM/PROBLEM :

Presently people who wish to donate items need to personally visit the organizations and donate foods or other items. Otherwise, they have to search for some websites to donate surplus food. In general, the large manufacturers, wholesalers, and organized community provide food items to food banks or waste tons of foods daily. They have to search for some organization that needs food. This process involves a lot of time to contact the organization to check the requirement. If they do not need the food, then the person has to contact another organization. This makes the donor tired and exhausted.

Food banks and food pantries are charitable organizations that collect, store, and distribute donated food to individuals and families in need. They typically work with food donors, such as grocery stores, manufacturers, and community organizations, to gather surplus food and ensure its proper distribution.

Many restaurants and 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. While all that food is being wasted, some families can barely afford proper meals with their limited money. They don't get enough nutrition due to the lack of having three meals in a day. Therefore, we decided to create our application to link the restaurant and people with the unfortunate people, so instead of throwing the food, the unfortunate will be able to pick it up from the restaurant at the end of the day.

Some businesses and retail establishments have established partnerships with local food banks or nonprofit organizations to donate unsold or surplus food. These collaborations may involve scheduled pickups or regular donations, ensuring that excess food is redirected to those who need it.

It's important to note that the specific food donation systems and initiatives can vary by region, country, and community. Organizations and individuals involved in food donation often work together to create comprehensive networks and systems that efficiently collect, store, and distribute surplus food to those in need.

Disadvantages of the Existing System :

- As there are many people who are waiting for food all them will not get the food.
- Need proper internet connection.
- User friendliness is very less.
- It consumes more time for processing the task.

3.3. PROPOSED SYSTEM/SOLUTION :

Web application technology is beneficial for food waste management. The website aims to encourage better food management. Our proposed solution should reduce food wastage by facilitating food sharing in India community using web technology. This work is an initial step towards designing a better system to reduce daily food waste. In future, this website could be enhanced more by adding the following features: Recruit and train volunteers to support various aspects of the food donation system, such as food collection, sorting, transportation, and distribution. Develop a volunteer management system to track volunteer availability, skills, and assignments. Provide regular training, recognition, and support to ensure a positive volunteer experience.

Regularly assess and adapt the food donation system based on the evolving needs of the community and feedback from

stakeholders. Stay informed about emerging best practices, technological advancements, and policy changes related to food donation and food waste reduction. Seek opportunities for innovation and collaboration to enhance the system's impact and sustainability.

When proposing a food donation system, it is crucial to consider the unique context and resources available in the target community. Tailor the system to address local needs and build partnerships with key stakeholders to ensure its successful implementation and long-term sustainability.

Extending our website to have many types of donating users either from organizations such as restaurants, or a family or a single user

- Adding the location facility to our website. The donating user should specify the location of the shared food.
- Adding the time and date of each meal shared by users
- Making the website supports multiple platforms (cross platform app).

Advantages of the Proposed System:

- Can help the people who are in need by offering them food.
- Can reduce the wastage of food mostly.
- It is simple to use.

3.4. SDLC METHODOLOGY: Modules/ Phases

3.4.1. Modules :

Admin Modules

This module comprises of Register/ login page where only Admin/NGOs of the system will have the control over the whole page.

Admin will have the right to update, Accept, and reject any operations of the user.

Admin have the right to track all the Updation and deletion of the request performed by the donor.

localhost/Food%20Waste%20Management%20System%20Using%20PHP/fwms

SIGN

User Name

PASSWORD

Forgot Password?

SIGN

Home

 31°C
Mostly clear

Search

**Fig 3.4.1.1 : Login Page of Admin Module**

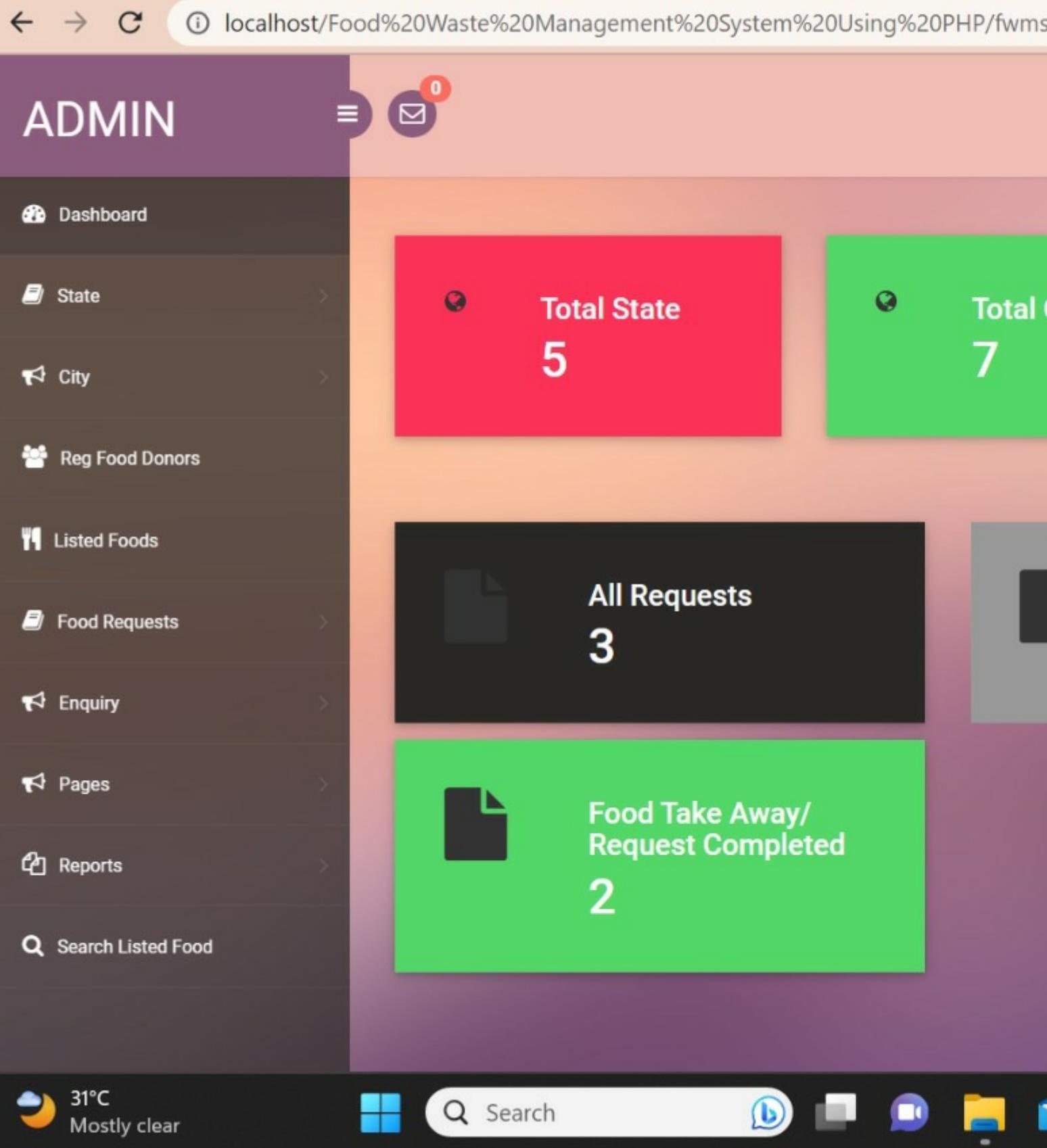


Fig 3.4.1.2 : Dashboard of Admin Module

Donor Modules

This page or module will again have the login and register option for the coming user, who want to donate leftover food.

The users can come and donate the food by just registering or login on the portal.

This users of this module can be a Personnel, Restaurant, or any other normal people who just want to help the needy.

- Login: Restaurant can login using credentials.

- Profile: Restaurant can make their profile by their details.
- Change Password: Restaurant can also change their password in case of emergency.
- Home: Todays Access food list accepted by NGO and yet to pick up.
- Food Access Request: Access Food details will be added here.
- Food History: Restaurant will show Pending/Accepted/Previous food history.
- Pending: Todays Access Food list which are yet to accept by NGO
- Accepted: Todays Access Food list which are accepted by NGOs.
- Previous: Previous History for Access Food & details.
- Notification: They will get the notifications of request and accepted request.

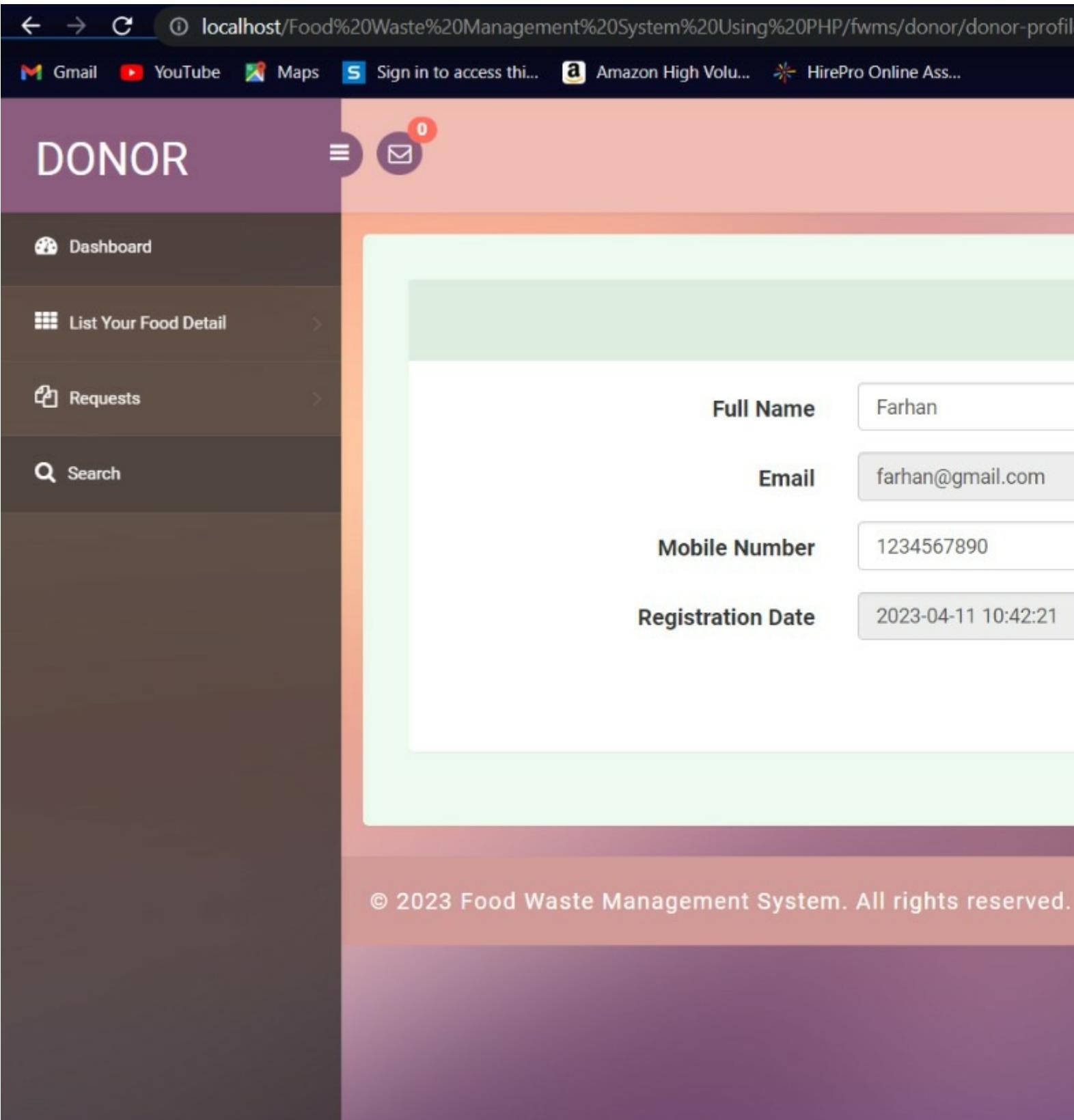


Fig 3.4.1.3 : Login Page of Donor Module

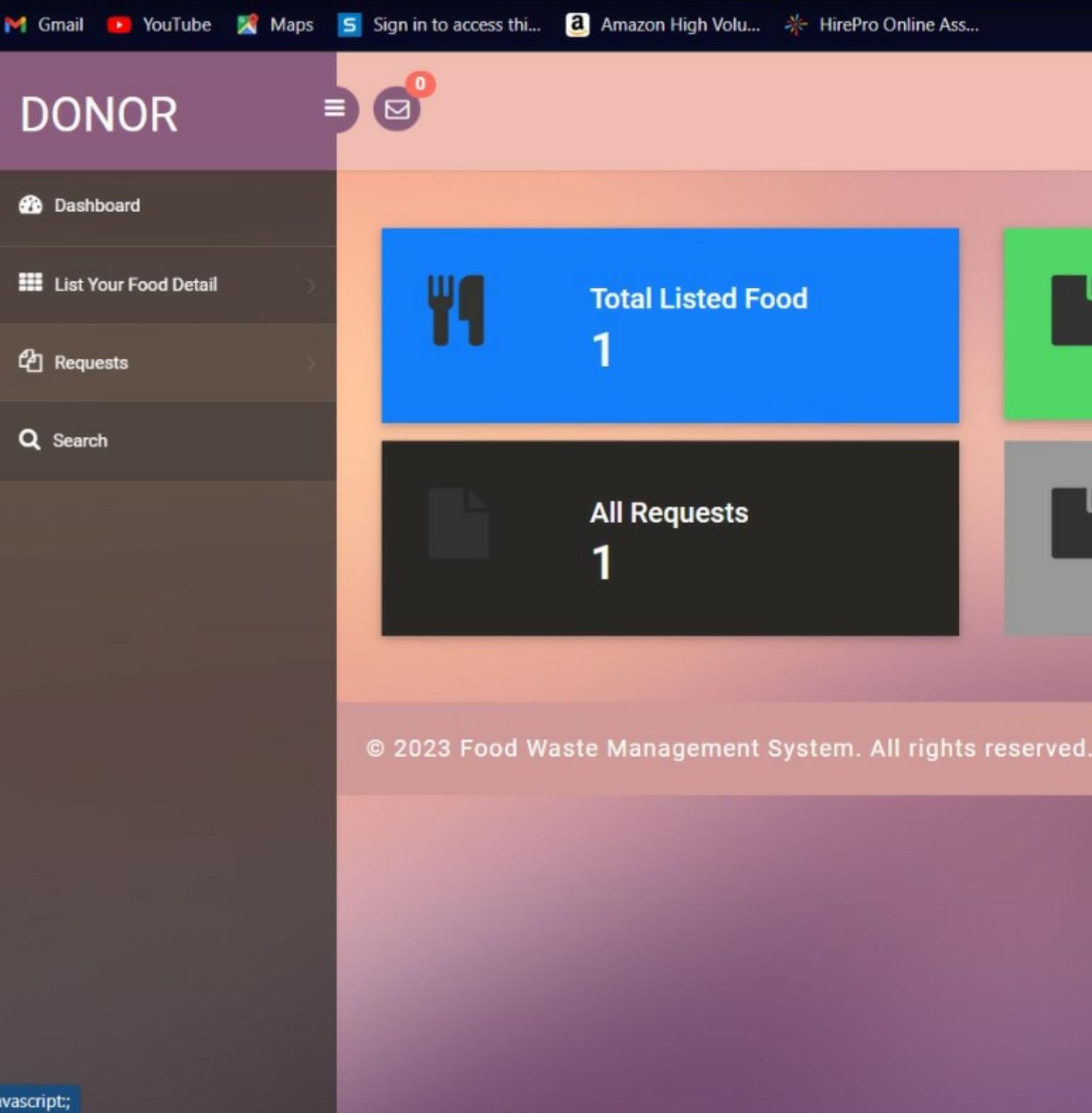


Fig 3.4.1.4 : Dashboard of Donor Module

3.4.2. Phases:

There are following six phases in every software development life cycle model:

1. Planning
2. Analysis
3. Design
4. Implementation
5. Testing

6. Maintenance

Planning:

Define the project's objectives, scope, and stakeholders. Identify the primary goals of the Food Donation System project, such as improving food distribution efficiency, reducing food waste, or increasing access to food for those in need. Determine the project's boundaries and the key stakeholders involved, including food donors, recipient organizations, volunteers, and system administrators.

- Recognizing the problem that needs to be addressed and how the solution will solve said problem.
- Identifying the risks involved with this project.
- Understanding the technical requirements and estimated people + asset cost for a successful deployment.
- Creating a checklist of goals and milestones to track project progress.

Analysis:

Requirements Gathering:

Analyze existing food donation processes and systems to identify pain points, inefficiencies, and areas for improvement.

Conduct stakeholder interviews and surveys to gather insights into their needs, expectations, and challenges related to food donation.

Perform a feasibility analysis to assess the viability of implementing a new food donation system and identify any potential risks or constraints.

System Analysis:

Analyze the gathered requirements to ensure they are clear, complete, and feasible.

Identify any potential conflicts or inconsistencies within the requirements and work with stakeholders to resolve them.

Conduct a cost-benefit analysis to evaluate the potential benefits and drawbacks of implementing the food donation system.

Design:

From a technical perspective, the design stage is one of the most critical stages in the SDLC. This stage aims to lay out the software blueprint from the developer all the way to the end user, and encapsulates all the components of the solution and how it will operate in production, as well as how to make tweaks and changes for maintenance. Slightly different from the planning and analysis stage where you lay out what the program will need to run, the design phase articulates how the software solution will run, and the specifications necessary to reach the intended outcome.

- Design the overall architecture of the food donation system.
- Specify the system components, modules, and data flows.
- Design the user interface, database schema, and integration points with external systems.

Implementation:

At this stage, the goal is to deploy the software to a production environment for customers to start using and consuming; however, many organizations typically move newly released software through phases of production, which can include a sandbox or pre-production environment, before releasing to full production. This gives developers and other key stakeholders the opportunity to interact and use the new software solution to see how it operates in production, and to make sure everything is working properly and as expected.

- Develop the food donation system based on the design specifications.
- Write and test the code for the system's components and modules.
- Conduct regular code reviews and quality assurance activities.

Testing:

- Perform various types of testing, such as unit testing, integration testing, and system testing.
- Validate that the system meets the defined requirements and functions as expected.
- Identify and fix any defects or issues discovered during the testing phase.

Maintenance:

- Deploy the food donation system to the production environment.
- Monitor the system's performance, availability, and user satisfaction.
- Provide ongoing support, maintenance, and updates to address any issues or enhancements.

3.5. SYSTEM REQUIREMENTS :

System requirements are all of the requirements at the system level that describe the functions which the system as a whole should fill to satisfy the stakeholder needs and exposed in an appropriate of al view and non-fictional their expressing the less of aty, stability, that will be necessary.

System requirements play major roles in system greeting as they Form the basis of system architecture and design activities. Form the basis of system integration and verification activities Act as reference and stakeholder acceptance.

Provide a main of communication between the various technical staff that interact throughout the project.

3.5.1. Functional Requirement :

These are the requirements that the end user specifically demands as basic facilities that the system should offer. All these functionalities need to be necessarily incorporated into the system as a part of the contract.

1. For Donor

- a. Donate item (click on donate, then select what item and in which form you wish to donate and have a volunteer pick up your item for you).
- b. Check where the volunteer has reached and the status of your donated item.
- c. Search and select NGO as per need.

2. For Admins

- a. Admins shall manage database information and shall do relevant tasks related to the same.

3.5.2. Software Requirement :

We have used the following software tools for developing our project.

- Database : MySQL
- Server : Apache
- Frontend : HTML
- Scripting Language : JavaScript
- IDE : Sublime
- Technology : PHP

3.5.3. Operating System Support :

- Windows 10
- Windows 11

3.5.4. Simulation and Debugging :

- Google Chrome, Microsoft Edge, Opera Mini, Firefox etc.

3.5.5. Hardware Requirement :

- - Any processor after Pentium 4.
 - Any version of Windows XP or later.
 - Processor speed: 2.0 GHz
 - Processor: Core i3, i5 or Above
 - RAM : 1GB
 - Hard disk: 40GB to 80 GB

CHAPTER 4

SYSTEM DESIGN

SYSTEM DESIGN :

Design is the first step in the development phase for any techniques and principles for the purpose of defining a device, a process or system in sufficient detail to permit its physical realization.

Once the software requirements have been analyzed and specified the software design involves three technical activities - design, coding, implementation and testing that are required to build and verify the software.

The design activities are of main importance in this phase, because in this activity, decisions ultimately affecting the success of the software implementation and its ease of maintenance are made. These decisions have the final bearing upon reliability and maintainability of the system. Design is the only way to accurately translate the customer's requirements into finished software or a system.

Design is the place where quality is fostered in development. Software design is a process through which requirements are translated into a representation of software. Software design is conducted in two steps. Preliminary design is concerned with the transformation of requirements into data.

4.1. ARCHITECTURE DESIGN :

Architecture can be referred to as a flow diagram, from where the users enters down to the CPU of the server and the power cord connected to it. To be more precise, the technologies, methods, and how everything is arranged to form a complete product in what the architecture of a system refers to.

It includes the followings:

Front-end/Client Side

The topmost visible layer is the front end. In this web-application, we used HTML (Hyper Text Markup Language), CSS (Cascading Style Sheet), Bootstrap for styling and JavaScript for inactivity and function.

Back-end/ Server Side

The backend of a website consists of a server, an application and a database. The backend is where a programming language is used (HTML, and CSS which are markup languages), in this website, we used PHP (Hypertext Preprocessor). Any information entered in the frontend, the application stores it in a database that was created on a server.

Database

A web database is a database application designed to be managed and accessed through the internet. This means that we have a web page that grabs the information from a web page and inserts that information into the database to which the web page is connected. Here the web page is connected to the database by programming (precisely using PHP) it can also display information based on the request. Website operators can manage this collection of data.

Server

A server is a type of computer or device on a network it means that they perform no other task besides their server tasks. In this website development, we have used a localhost server. A localhost is a hostname that refers to the current computer used to access it. It is used to access the services that are running on the host via the loopback network interface. We used XAMPP that serves as a localhost server.

4.2. USE CASE DIAGRAM :

4.2.1. Admin Use Case Diagram

ADMIN MODULE

Fig 4.2.1 : Admin Use Case Diagram

4.2.2. Donor Use Case Diagram

DONOR MODULE

Fig 4.2.2 : Donor Use Case Diagram

4.3. ER Diagram :

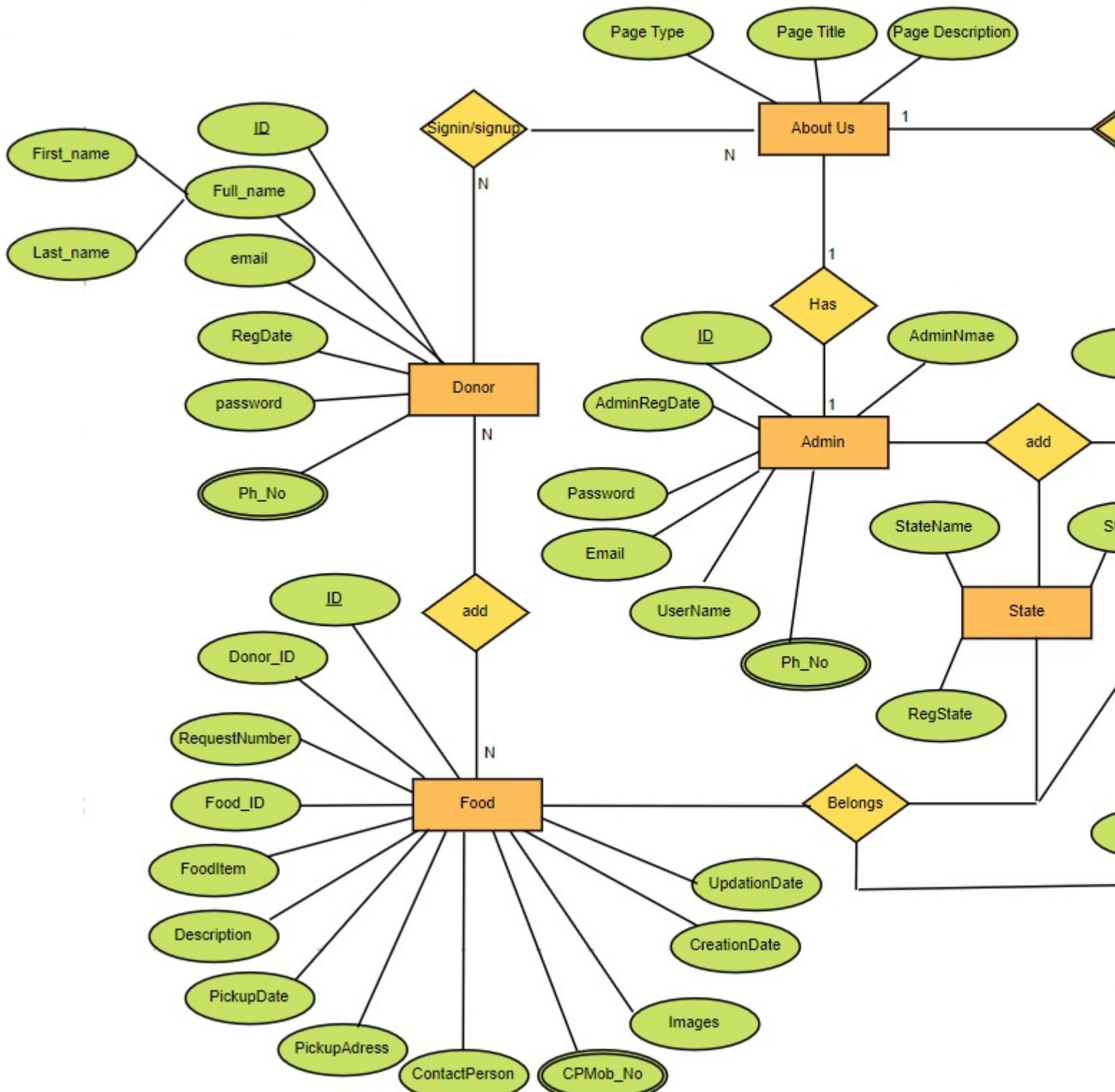


Fig 4.3 : ER Diagram

4.4. DATA FLOW DIAGRAM/UML :

A data flow diagram is graphical tool used to describe and analyze movement of data through a system. These are the central tool and the basis from which the other components are developed. The transformation of data from input to output, through processed, may be described logically and independently of physical components associated with the system. These are known as the logical data flow diagrams. The physical data flow diagrams show the actual implements and movement of data between people, departments and workstations. A full description of a system actually consists of a set of data flow diagrams. Using two familiar notations Yourdon, Gane and Sarson notation develops the data flow diagrams. Each component in a DFD is labeled with a descriptive name. Process is further identified with a number that will be used for identification purpose. The development of DFD's is done in several levels. Each process in lower level diagrams can be broken down into a more detailed DFD in the next level. The top-level diagram is often called context diagram. It consists a single process bit, which plays vital role in studying the

current system. The process in the context level diagram is exploded into other process at the first level DFD.

DFD SYMBOLS:

In the DFD, there are four symbols

1. A square defines a source (originator) or destination of system data.
 2. An arrow identifies data flow. It is the pipeline through which the information flows.
 3. A circle or a bubble represents a process that transforms incoming data flow into outgoing data flows.
 4. An open rectangle is a data store, data at rest or a temporary repository of data.

4.4.1. 0 – LEVEL DFD :

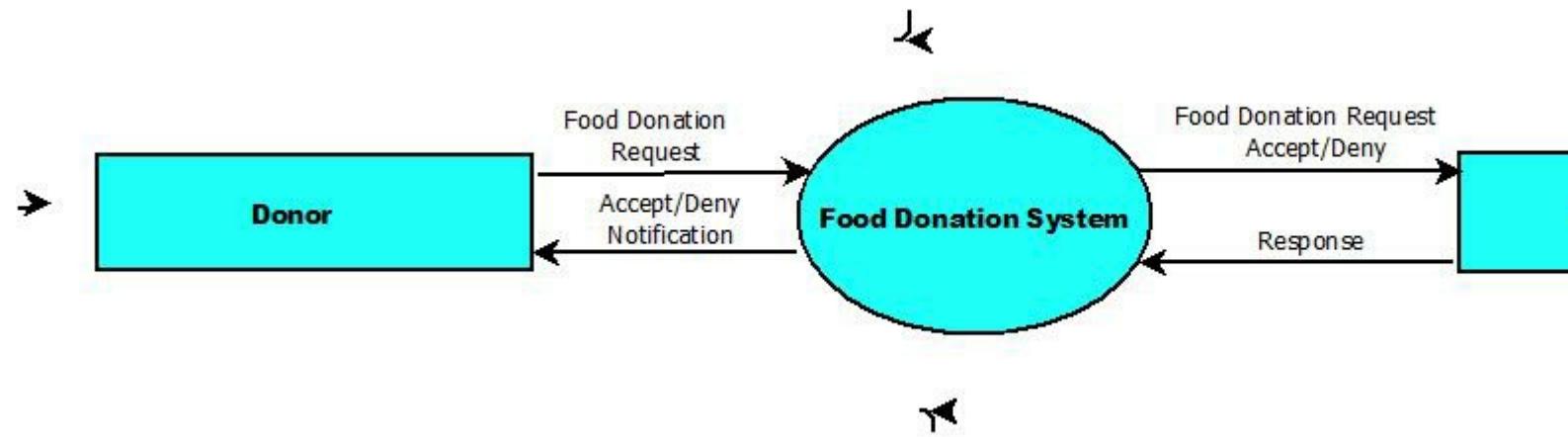
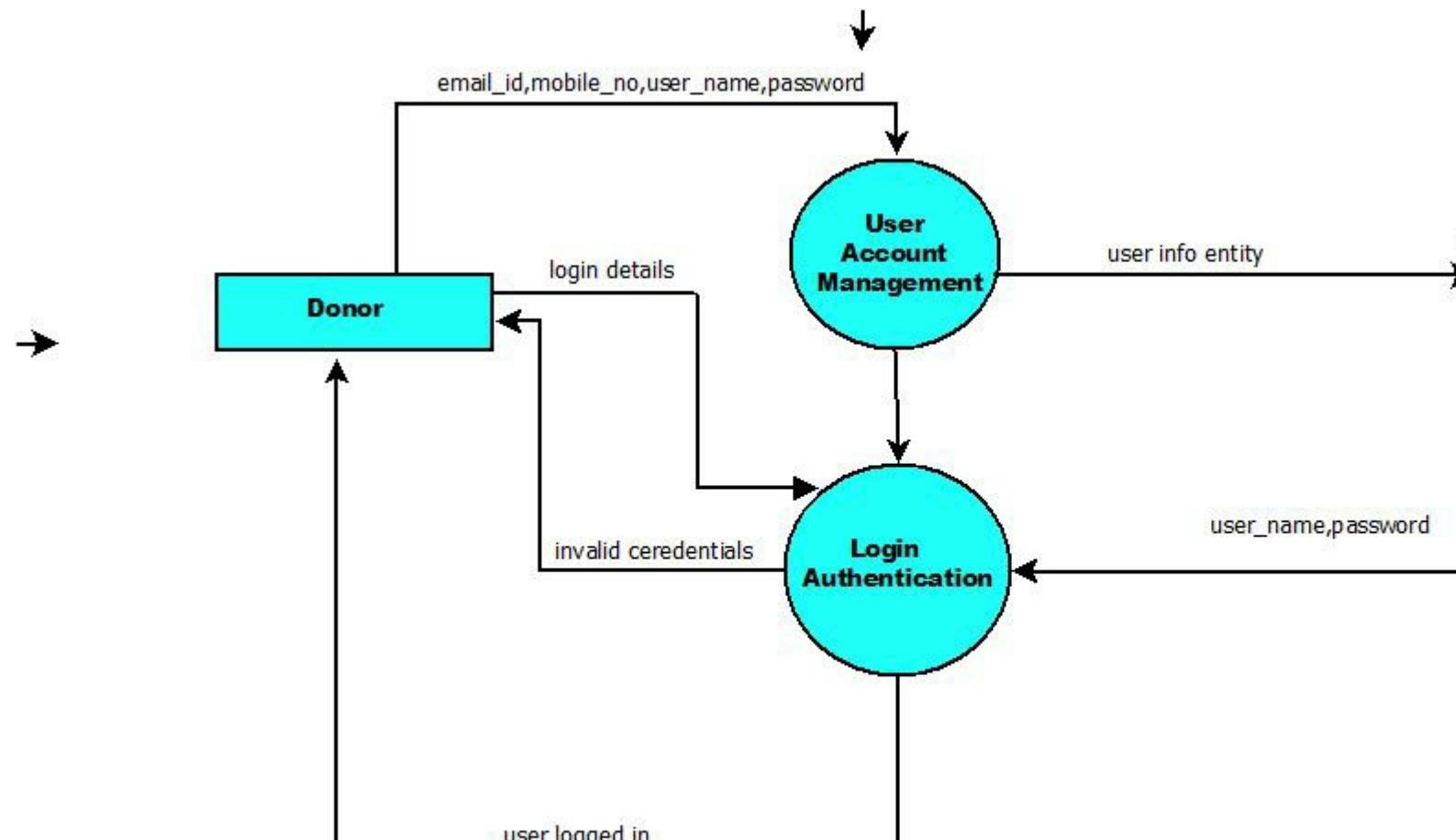


Fig 4.4.1 : 0 – Level DFD



4.4.2. 1 – LEVEL DFD :

Fig 4.4.2 : 1 – Level DFD

4.4.3. 2 – LEVEL DFD :

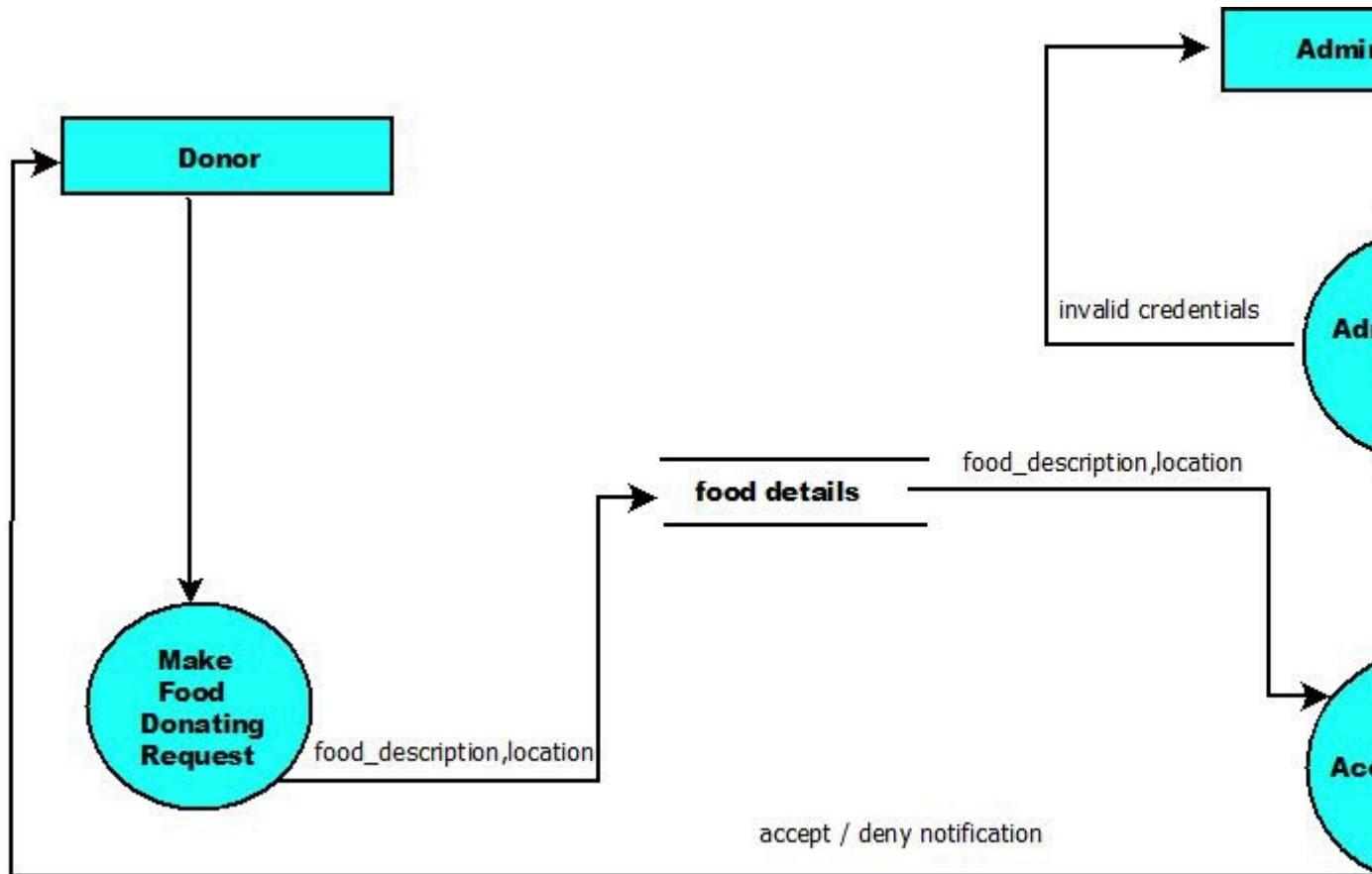


Fig 4.4.3 : 2 – Level DFD

4.5. DATA BASE DESIGN :

The data in the system has to be stored and retrieved from database. Designing the database is part of system design. Data elements and data structures to be stored have been identified at analysis stage. They are structured and put together to design the data storage and retrieval system.

A database is a collection of interrelated data stored with minimum redundancy to serve many users quickly and efficiently. The general objective is to make database access easy, quick, inexpensive and flexible for the user. Relationships are established between the data items and unnecessary data items are removed. Normalization is done to get an internal consistency of data and to have minimum redundancy and maximum stability. This ensures minimizing data storage required, minimizing chances of data inconsistencies and optimizing for updates. The MySQL database has been chosen for developing the relevant databases.

Food Donation System (FDS) contains 8 MySQL tables :

tbladmin table Structure : This table store the admin login and personal Details.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ID	int(10)			No	None		AUTO_INCREMENT
2	AdminName	varchar(120)	utf8mb4_general_ci		Yes	NULL		
3	UserName	varchar(120)	utf8mb4_general_ci		Yes	NULL		
4	MobileNumber	bigint(10)			Yes	NULL		
5	Email	varchar(200)	utf8mb4_general_ci		Yes	NULL		
6	Password	varchar(200)	utf8mb4_general_ci		Yes	NULL		
7	AdminRegdate	timestamp			Yes	current_timestamp()		

Table No. 4.5.1 : Admin Login Table

tblcity table Structure : This table store name of city.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ID 	int(10)			No	None		AUTO_INCREMENT
2	StateID	int(10)			Yes	NULL		
3	City	varchar(120)	latin1_swedish_ci		Yes	NULL		
4	CreationDate	timestamp			Yes	current_timestamp()		

Table No. 4.5.2 : Name of City Table

tblstate table Structure : This table store name of state.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ID 	int(10)			No	None		AUTO_INCREMENT
2	StateName	varchar(120)	latin1_swedish_ci		Yes	NULL		
3	RegState	timestamp			Yes	current_timestamp()		

Table No. 4.5.3 : Name of State Table

tblcontact table Structure : This table store the detail of contact us donor.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ID 	int(10)			No	None		AUTO_INCREMENT
2	FirstName	varchar(200)	utf8mb4_general_ci		Yes	NULL		
3	LastName	varchar(200)	utf8mb4_general_ci		Yes	NULL		
4	Email	varchar(200)	utf8mb4_general_ci		Yes	NULL		
5	Phone	bigint(10)			Yes	NULL		
6	Message	mediumtext	utf8mb4_general_ci		Yes	NULL		
7	EnquiryDate	timestamp			No	current_timestamp()		
8	IsRead	int(5)			Yes	NULL		

Table No. 4.5.4 : Contact us Table

tbldonor table Structure : This table store the detail of food donor.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ID 	int(10)			No	None		AUTO_INCREMENT
2	FullName	varchar(200)	latin1_swedish_ci		Yes	NULL		
3	Email	varchar(200)	latin1_swedish_ci		Yes	NULL		
4	MobileNumber	bigint(10)			Yes	NULL		
5	Password	varchar(120)	latin1_swedish_ci		Yes	NULL		
6	RegDate	timestamp			Yes	current_timestamp()		

Table No. 4.5.5 : Donor details Table

tblfood table Structure : This table store the detail of donated food.

#	Name	Type	Collation	Attributes	Null	Default	Comments
1	id 	int(11)			No	None	
2	requestNumber	bigint(12)			Yes	NULL	
3	foodId	int(1)			Yes	NULL	
4	fullName	varchar(150)	utf8mb4_general_ci		Yes	NULL	
5	mobileNumber	bigint(12)			Yes	NULL	
6	message	mediumtext	utf8mb4_general_ci		Yes	NULL	
7	requestDate	timestamp			Yes	current_timestamp()	
8	status	varchar(120)	utf8mb4_general_ci		Yes	NULL	
9	donorRemark	mediumtext	utf8mb4_general_ci		Yes	NULL	
10	requestCompletionDate	timestamp			Yes	NULL	

Table No. 4.5.6 : Donated Food details Table

tblpages table Structure : This table store the detail of contact us and about us.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ID 	int(11)			No	None		AUTO_INCREMENT
2	Page Type	varchar(200)	latin1_swedish_ci		Yes	NULL		
3	Page Title	mediumtext	latin1_swedish_ci		Yes	NULL		
4	PageDescription	mediumtext	latin1_swedish_ci		Yes	NULL		
5	UpdationDate	timestamp			Yes	NULL		ON UPDATE CURRENT_TIMESTAMP

Table No. 4.5.7 : Contant us and About us Page Table

tblfoodrequests table Structure : This table store the detail of food request which is send by user.

#	Name	Type	Collation	Attributes	Null	Default	Comments
1	id 	int(11)			No	None	
2	requestNumber	bigint(12)			Yes	NULL	
3	foodId	int(1)			Yes	NULL	
4	fullName	varchar(150)	utf8mb4_general_ci		Yes	NULL	
5	mobileNumber	bigint(12)			Yes	NULL	
6	message	mediumtext	utf8mb4_general_ci		Yes	NULL	
7	requestDate	timestamp			Yes	current_timestamp()	
8	status	varchar(120)	utf8mb4_general_ci		Yes	NULL	
9	donorRemark	mediumtext	utf8mb4_general_ci		Yes	NULL	
10	requestCompletionDate	timestamp			Yes	NULL	

Table No. 4.5.8 : Food Request Table

4.5.1. CLASS DIAGRAM:

The class diagram shows a set of classes, interfaces, collaborations and their relationships.

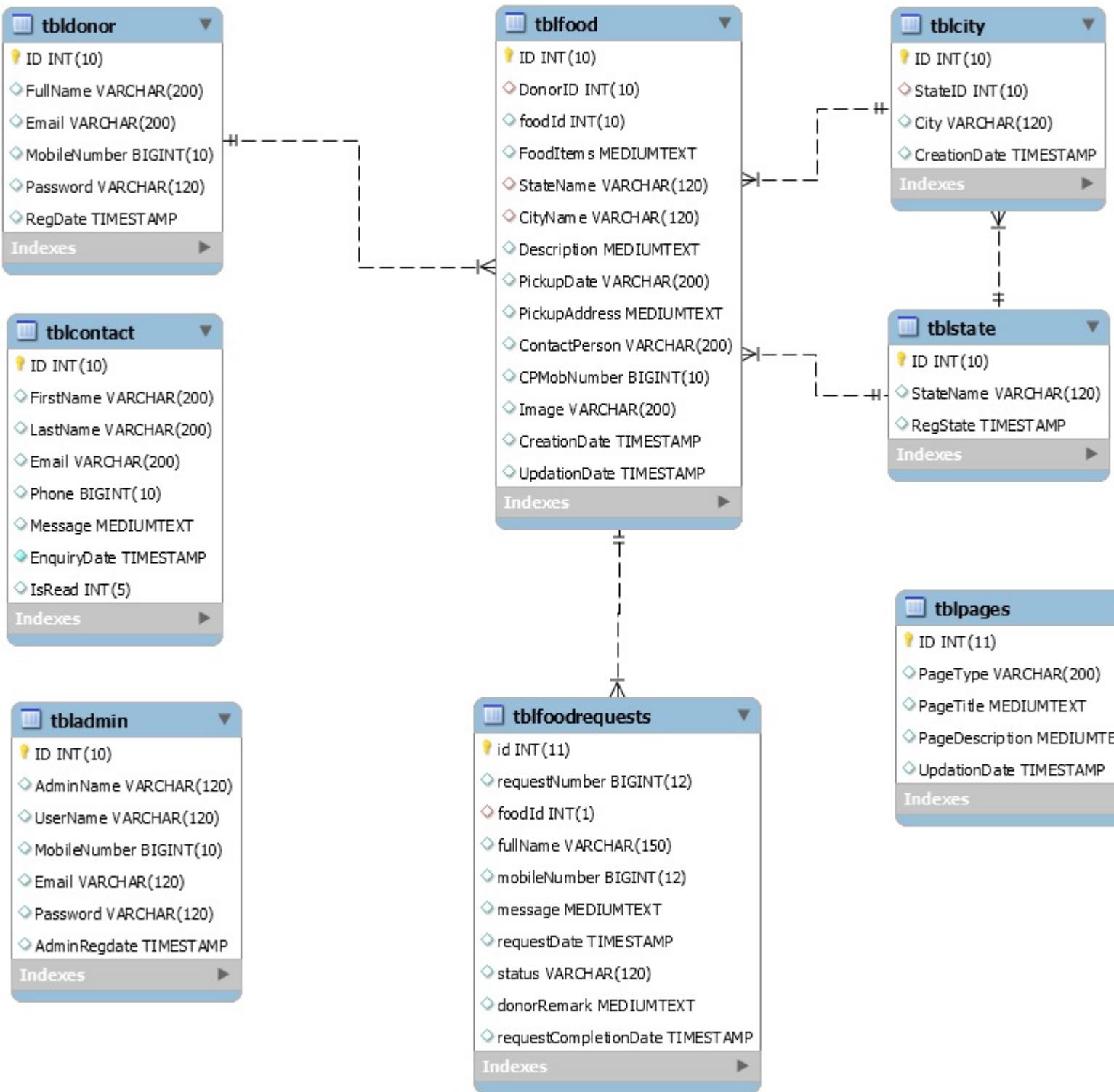


Fig 4.5.1 : Class Diagram

4.6. INTERFACE DESIGN :

Home Page :

[←](#)[→](#)[C](#)[localhost/Food%20Waste%20Management%20System%20Using%20PHP/fwms/index.php](#)[HOME](#)[ABOUT](#)[AVAILABLE FOOD LIST](#)[CONTACT](#)[DONOR](#)31°C
Mostly clear

Search

**Fig 4.6.1 : Home Page Snap Shot****Admin Login :**

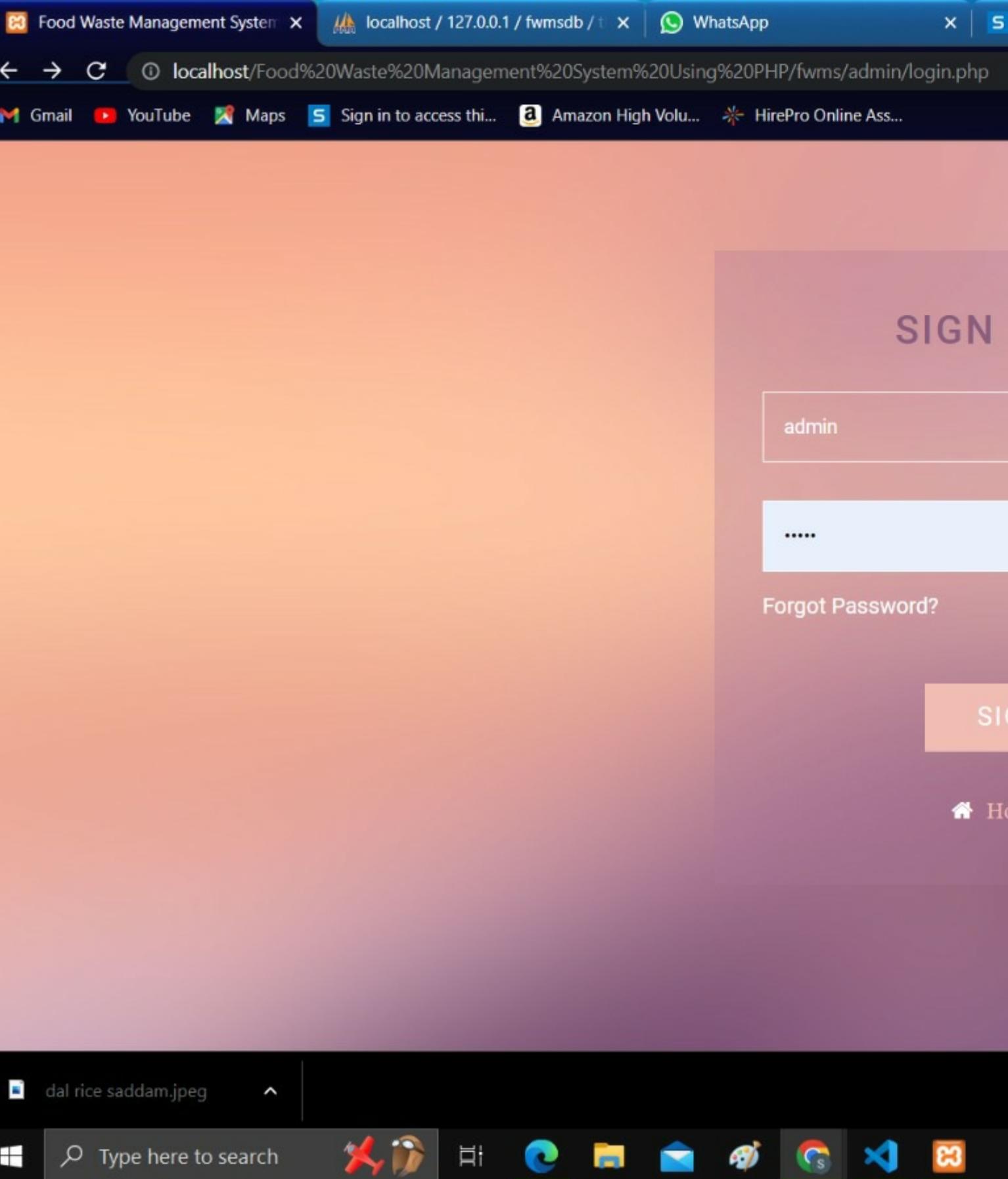


Fig 4.6.2 : Admin Login Snap Shot

Forget Password :

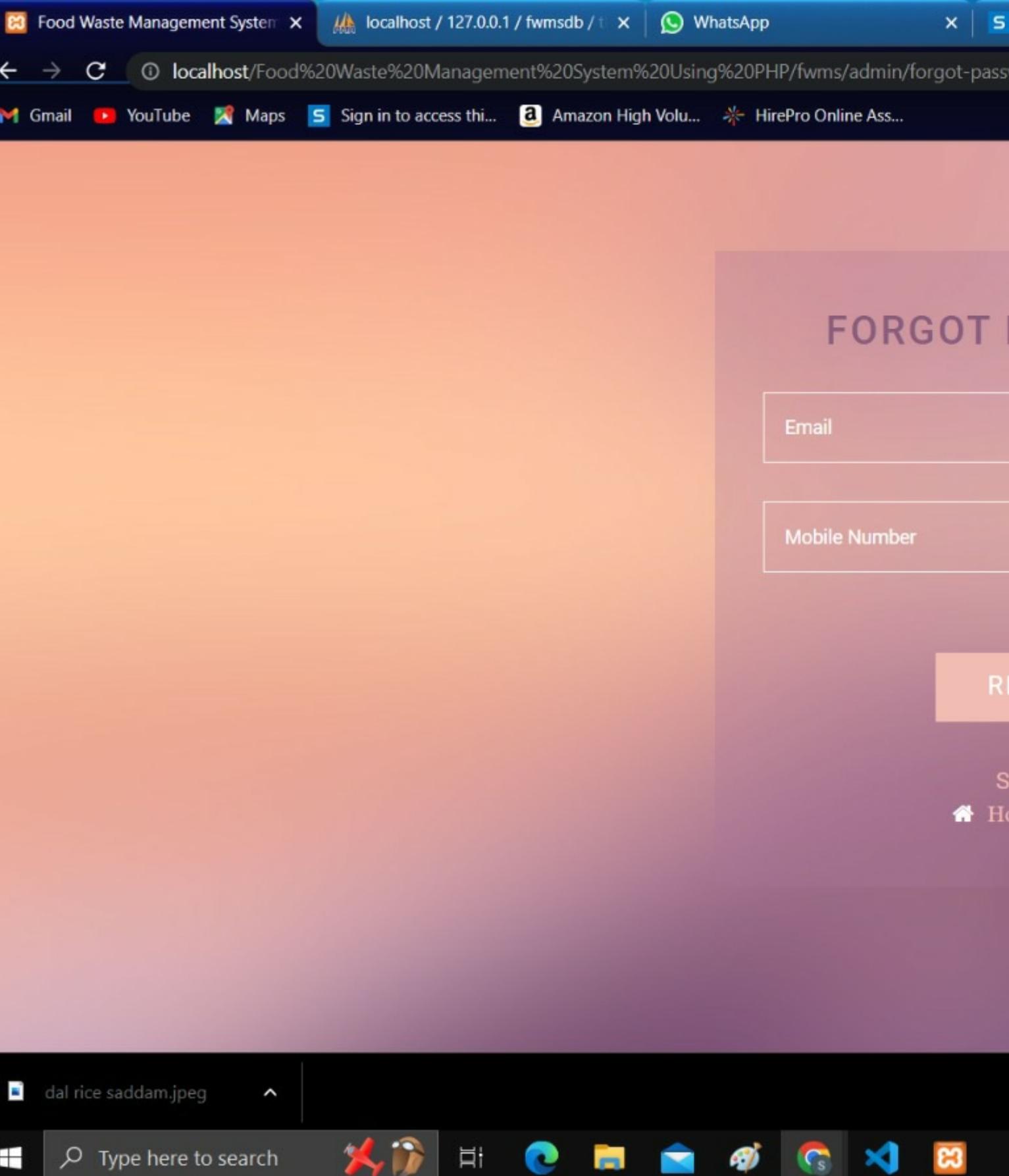


Fig 4.6.3 : Forget Password Snap Shot

Admin Dashboard :

The screenshot shows the Admin Dashboard of a Food Waste Management System. The left sidebar contains a navigation menu with the following items:

- Dashboard
- State
- City
- Reg Food Donors
- Listed Foods
- Food Requests
- Enquiry
- Pages
- Reports
- Search Listed Food

The main area displays several performance metrics in colored boxes:

- A red box shows "Total State" with a value of 5.
- A green box shows "Total Ci" with a value of 7.
- A purple box shows "All Requests" with a value of 3.
- A green box shows "Food Take Away/ Request Completed" with a value of 2.

At the top right of the dashboard, there is a notification icon with a red circle containing the number 1, indicating one unread message.

Fig 4.6.4 : Admin Dashboard Snap Shot

Admin Profile :

-  Dashboard
-  State >
-  City >
-  Reg Food Donors
-  Listed Foods
-  Food Requests >
-  Enquiry >
-  Pages >
-  Reports >
-  Search Listed Food

ADMIN PROFILE

Admin Name	<input type="text" value="Admin"/>
User Name	<input type="text" value="admin"/>
Contact Number	<input type="text" value="8989898989"/>
Email	<input type="text" value="admin@gmail.com"/>

Update

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Fig 4.6.5 : Admin Profile Snap Shot**Add State :**

-  Dashboard
-  State >
-  City >
-  Reg Food Donors
-  Listed Foods
-  Food Requests >
-  Enquiry >
-  Pages >
-  Reports >
-  Search Listed Food

ADD STATE

State	<input type="text"/>
-------	----------------------

Add

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Fig 4.6.6 : Add State Snap Shot**Manage State :**

← →Clocalhost/Food%20Waste%20Management%20System%20Using%20PHP/fwms/admin/manage-stateGmailYouTubeMapsS Sign in to access thi...A Amazon High Volu...HirePro Online Ass...

ADMIN

DashboardStateCityReg Food DonorsListed FoodsFood RequestsEnquiryPagesReportsSearch Listed Fooddal rice saddam.jpeg

S.NO	State Name
1	Andra Pradesh
2	Uttar Pradesh
3	MP
4	Bihar
5	Telangana

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dal rice saddam.jpegType here to search

Fig 4.6.7 : Manage State Snap Shot

Add City :

ADD CITY

State City

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Fig 4.6.8 : Add City Snap Shot**Manage City :**

ADMIN

[Dashboard](#)[State](#)[City](#)[Reg Food Donors](#)[Listed Foods](#)[Food Requests](#)[Enquiry](#)[Pages](#)[Reports](#)[Search Listed Food](#)

S.NO	City Name	C
1	Allahabad	20
2	Aligarh	20
3	Lucknow	20
4	Chennai	20
5	HYDERABAD	20
6	Patna	20
7	Warangal	20

Fig 4.6.9 : Manage City Snap Shot

Food Donor Details :

← →Clocalhost/Food%20Waste%20Management%20System%20Using%20PHP/fwms/admin/manage-donorsGmailYouTubeMapsS Sign in to access thi...A Amazon High Volu...HirePro Online Ass...

ADMIN

DashboardStateCityReg Food DonorsListed FoodsFood RequestsEnquiryPagesReportsSearch Listed Food

S.NO	Full Name	Mobile Number
1	Adil Masood	9898989898
2	Shams	8238482922
3	Ram Reddy	9877799797
4	Wasim	1236547899
5	Faizal	9877799797

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 Type here to search

Fig 4.6.10 : Food Donor Details Snap Shot

Listed Food Details :

Food Waste Management System X localhost / 127.0.0.1 / fwmsdb / t X WhatsApp

localhost/Food%20Waste%20Management%20System%20Using%20PHP/fwms/admin/all-listed-food

Gmail YouTube Maps Sign in to access thi... Amazon High Volu... HirePro Online Ass...

ADMIN

Dashboard State City Reg Food Donors Listed Foods Food Requests Enquiry Pages Reports Search Listed Food

1

S.NO	Food Id	Register By	Register Mobile Number	Com N
1	372165116	Shams	8238482922	Ari
2	330170905	Ram Reddy	9877799797	Wa
3	244559044	Wasim	1236547899	Asi

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Type here to search

Fig 4.6.11 : Listed Food Detail Snap Shot

Food Take Away / Request Completed Status :

[←](#) [→](#)[C](#)<localhost/Food%20Waste%20Management%20System%20Using%20PHP/fwms/admin/completed-reqs>[Gmail](#)[YouTube](#)[Maps](#)[Sign in to access thi...](#)[Amazon High Volu...](#)[HirePro Online Ass...](#)

ADMIN

[Dashboard](#)[State](#)[City](#)[Reg Food Donors](#)[Listed Foods](#)[Food Requests](#)[Enquiry](#)[Pages](#)[Reports](#)[Search Listed Food](#)

FOOD TAKE AWAY

S.NO	Request Id	Request By	Requester Mobile Number
1	692624619	Amit Kumar	1122334455
2	293916769	Garima Singh	7891232014

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Type here to search



Fig 4.6.12 : Food Take Away / Request Completed Status Snap Shot

Read Enquiry Details :

← → C① localhost/Food%20Waste%20Management%20System%20Using%20PHP/fwms/admin/readenq.phpGmail YouTube Maps S Sign in to access thi... A Amazon High Volu... HirePro Online Ass...

ADMIN

DashboardStateCityReg Food DonorsListed FoodsFood RequestsEnquiryPagesReportsSearch Listed Food

S.No	Name	Email
1	Adil Masood	adil@gmail.com
2	Shams	shams@gmail.com
3	Faizal	Faizal@gmail.com

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Type here to search



Fig 4.6.13 : Enquiry Details Snap Shot

Donor Registration :

← → C

① localhost/Food%20Waste%20Management%20System%20Using%20PHP/fwms/donor/donor-regis...

GmailYouTubeMapsS Sign in to access thi...a Amazon High Volu...HirePro Online Ass...

REGIST

NAME

E-MAIL

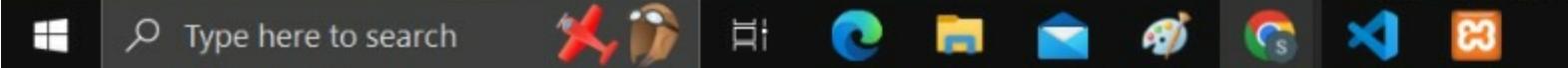
PHONE

PASSWORD

REPEAT PASSWORD

 I agree to the Terms of Service

SUBMIT

**Fig 4.6.14 : Donor Registration Snap Shot****Donor Login :**

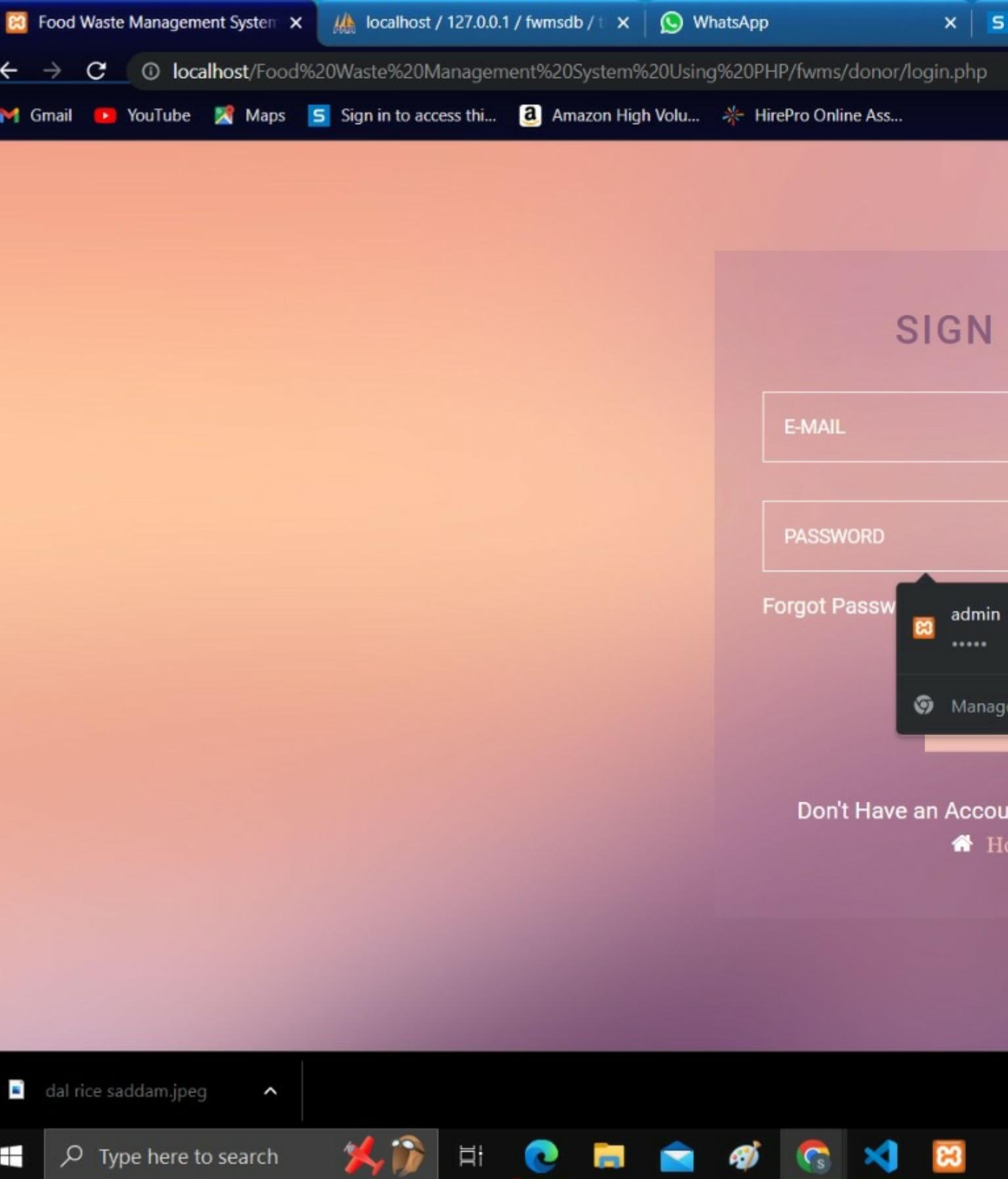


Fig 4.6.15 : Donor Login Snap Shot

Donor Dashboard :

localhost/Food%20Waste%20Management%20System%20Using%20PHP/fwms/donor/dashboard.php

The screenshot shows the 'DONOR' dashboard. On the left sidebar, there are four items: 'Dashboard', 'List Your Food Detail', 'Requests', and 'Search'. The main area displays two cards. The first card, titled 'Total Listed Food', shows a count of 1 with a fork and knife icon. The second card, titled 'All Requests', shows a count of 0 with a document icon. At the bottom of the dashboard, a copyright notice reads: '© 2023 Food Waste Management System. All rights reserved.' Below the dashboard, the Windows taskbar is visible, showing a file named 'dal rice saddam.jpeg', a search bar with the placeholder 'Type here to search', and several pinned icons for File Explorer, Mail, and other applications.

DONOR

Dashboard

List Your Food Detail

Requests

Search

Total Listed Food
1

All Requests
0

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dal rice saddam.jpeg

Type here to search

File Explorer Mail Edge Google Chrome Microsoft Word Microsoft Excel

Fig 4.6.16 : Donor Dashboard Snap Shot

Food Details of Donor :

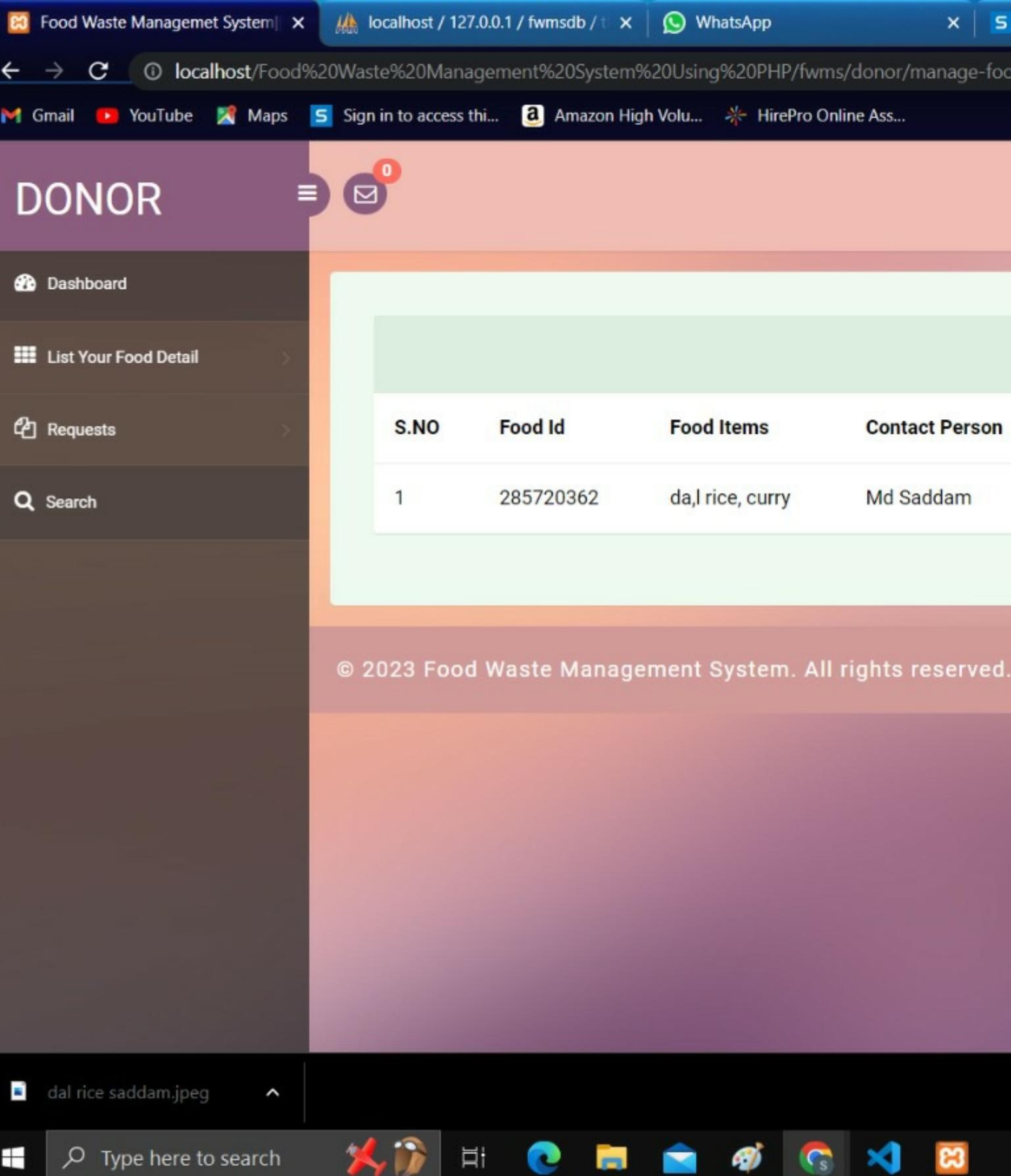


Fig 4.6.17 : Food Detail of Donor Snap Shot

CHAPTER 5

SYSTEM IMPLEMENTATION

5.1. USED TECHNOLOGY AND LANGUAGES :

The project has been developed using the technologies below:

- HTML: Page layout has been designed in HTML.

- CSS: This is used for all the designing part.
- Bootstrap: Used for designing part and making the website responsive.
- JavaScript: JS is used for enabling smooth-scroll on the website.
- PHP: All the business and frontend logic has been implemented using PHP.
- MySQL: MySQL database has been used as a database for the project.
- XAMPP: Project will be run over the XAMPP server.

5.2. CODING:

5.2.1. Home Page Code :

```

<?php
session_start();
error_reporting(0);
include('includes/dbconnection.php');
?>
<!DOCTYPE html>
<html>
<head>
<title>Food Donation System||Home Page</title>
<link href="css/bootstrap.css" rel='stylesheet' type='text/css' />
<!-- jQuery (Bootstrap's JavaScript plugins) -->
<script src="js/jquery.min.js"></script>
<!-- Custom Theme files -->
<link href="css/style.css" rel="stylesheet" type="text/css" media="all" />
<script type="application/x-javascript"> addEventListener("load",function() { setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1); } </script>
<!--webfont-->
<link href='http://fonts.googleapis.com/css?family=Droid+Serif:400,700,700italic,400italic' rel='stylesheet' type='text/css'>
<link href='http://fonts.googleapis.com/css?family=Roboto+Slab:400,100,300,700' rel='stylesheet' type='text/css'>
<!--webfont-->
<!--js-->
<!---- start-smoth-scrolling---->
<script type="text/javascript" src="js/move-top.js"></script>
<script type="text/javascript" src="js/easing.js"></script>
<script type="text/javascript">
jQuery(document).ready(function($) {

```

```
$(".scroll").click(function(event){  
    event.preventDefault();  
    $('html,body').animate({scrollTop:$('this.hash').offset().top},900);  
});  
});  
</script>  
<!-- start-smooth-scrolling-->  
</head>  
<body>  
<?php include_once("includes/header.php");?>  
<!-- banner -->  
<div class="banner">  
<div class="container">  
<!-- responsiveslides -->  
<script src="js/responsiveslides.min.js"></script>  
<script>  
// You can also use "$(window).load(function() {"  
$(function () {  
    // Slideshow 4  
    $('#slider3').responsiveSlides({  
        auto: true,  
        pager: false,  
        nav: false,  
        speed: 500,  
        namespace: "callbacks",  
        before: function () {  
            $('.events').append("<li>before event fired.</li>");  
        },  
        after: function () {  
            $('.events').append("<li>after event fired.</li>");  
        }  
    });  
});
```

```
});  
});  
</script>  
  
<!-- responsiveslides -->  
  
<div id="top" class="callbacks_container">  
  
<ul class="rslides" id="slider3">  
  
<li>  
  
<div class="banner-info">  
  
<h3>WE NEED YOUR SUPPORT</h3>  
  
<p>Sed ut perspiciatis unde omnis iste natus  
error sit voluptatem accusantium doloremque  
laudantium, totam rem aperiam, eaque ipsa quae  
ab illo inventore veritatis et quasi architecto  
beatae vitae dicta sunt</p>  
  
<a href="about.php" class="hvr-rectangle-out button">READ MORE</a>  
  
</div>  
  
<div class="clearfix"></div>  
  
</li>  
  
<li>  
  
<div class="banner-info">  
  
<h3>HELP TURN TEARS TO SURES</h3>  
  
<p>Sed ut perspiciatis unde omnis iste natus  
error sit voluptatem accusantium doloremque  
laudantium, totam rem aperiam, eaque ipsa quae  
ab illo inventore veritatis et quasi architecto  
beatae vitae dicta sunt </p>  
  
<a href="about.php" class="hvr-rectangle-out button">READ MORE</a>  
  
</div>  
  
<div class="clearfix"></div>  
  
</li>  
</ul>
```

```
</div>
</div>
</div>

<!-- //banner -->
<!-- welcome -->

<div class="welcome">
<div class="container">
<?php
$ret=mysqli_query($con,"select * from tblpages where PageType='aboutus' ");
$cnt=1;
while ($row=mysqli_fetch_array($ret)) {
?>
<div class="welcome-head">
<p><?php echo $row['PageDescription'];?></p>
</div>
</div><?php } ?>
</div>
<!-- //welcome -->
<!-- mission -->

<div class="mission">
<div class="container">
<div class="mission-header">
<h3>OUR MISSION</h3>
</div>
<div class="mission-grids">
<div class="col-md-6 mission-left">

</div>
<div class="col-md-6 mission-right">
<div class="mis-one">
<div class="mis-left">
```



</div>

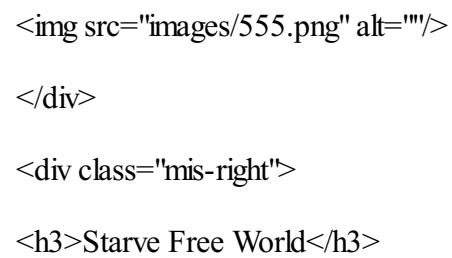
HELP & SUPPORT

Quis autem vel eum iure reprehenderit qui
in ea voluptate velit esse quam nihil molestiae

</div>

</div>

</div>



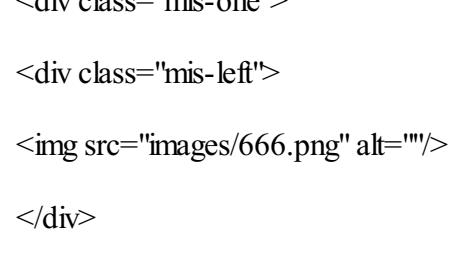
Starve Free World

Quis autem vel eum iure reprehenderit qui
in ea voluptate velit esse quam nihil molestiae

</div>

</div>

</div>



Helping Hand

Quis autem vel eum iure reprehenderit qui
in ea voluptate velit esse quam nihil molestiae

</div>

</div>

```
</div>

<div class="clearfix"></div>

</div>

</div>

</div>

<!-- //mission -->

<!-- //success -->

<?php include_once("includes/footer.php");?>

<!-- smooth scrolling -->

<script type="text/javascript">

$(document).ready(function() {

/*
var defaults = {

containerID: 'toTop', // fading element id

containerHoverID: 'toTopHover', // fading element hover id

scrollSpeed: 1200,

easingType: 'linear'

};

*/
$().UItoTop({ easingType: 'easeOutQuart' });

});

</script>

<a href="#" id="toTop" style="display: block;"> <span id="toTopHover" style="opacity: 1;"> </span></a>

<!-- //smooth scrolling -->

</body>

</html>
```

localhost/Food%20Waste%20Management%20System%20Using%20PHP/fwms/index.php

[HOME](#)[ABOUT](#)[AVAILABLE FOOD LIST](#)[CONTACT](#)[DONOR](#)

31°C
Mostly clear



Search



Fig 5.2.1 : Home Page Snap Shot

5.2.2. Admin Login Code :

```
<?php
session_start();
error_reporting(0);
include('includes/dbconnection.php');
if(isset($_POST['login']))
{
$adminuser=$_POST['username'];
$password=md5($_POST['password']);
```

```
$query=mysqli_query($con,"select ID from tbladmin where UserName='".$adminuser' && Password='".$password' ");  
  
$ret=mysqli_fetch_array($query);  
  
if($ret>0){  
  
$_SESSION['pgasaid']=$ret['ID'];  
  
header('location:dashboard.php');  
  
}  
  
else{  
  
echo "<script>alert('Invalid Details.');//</script>";  
  
}  
  
}  
  
?  
  
<!DOCTYPE html>  
  
<head>  
  
<title>Food Donation System | Login Page</title>  
  
<script type="application/x-javascript"> addEventListener("load", function() { setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1); } </script>  
  
<!-- bootstrap-css -->  
  
<link rel="stylesheet" href="css/bootstrap.min.css" />  
  
<!-- //bootstrap-css -->  
  
<!-- Custom CSS -->  
  
<link href="css/style.css" rel='stylesheet' type='text/css' />  
  
<link href="css/style-responsive.css" rel="stylesheet"/>  
  
<!-- font CSS -->  
  
<link href='//fonts.googleapis.com/css?family=Roboto:400,100,100italic,300,300italic,400italic,500,500italic,700,700italic,900,900italic' rel='stylesheet' type='text/css'>  
  
<!-- font-awesome icons -->  
  
<link rel="stylesheet" href="css/font.css" type="text/css"/>  
  
<link href="css/font-awesome.css" rel="stylesheet"/>  
  
<!-- //font-awesome icons -->  
  
<script src="js/jquery2.0.3.min.js"></script>  
  
</head>
```

```
<body>

<div class="log-w3">
<div class="w3layouts-main">
<h2>Sign In Now</h2>
<form action="#" method="post" name="login">
<input type="text" class="ggg" name="username" placeholder="User Name" required="true">
<input type="password" class="ggg" name="password" placeholder="PASSWORD" required="true">
<a href="forgot-password.php">Forgot Password?</a>
<div class="clearfix"></div>
<input type="submit" value="Sign In" name="login">
</form>
<p class="mb-1">
<i class="fa fa-home" aria-hidden="true"><a href="../index.php">Home Page</a></i>
</p>
</div>
</div>
<script src="js/bootstrap.js"></script>
<script src="js/jquery.dcjqaccordion.2.7.js"></script>
<script src="js/scripts.js"></script>
<script src="js/jquery.slimscroll.js"></script>
<script src="js/jquery.nicescroll.js"></script>
<!--[if lte IE 8]><script language="javascript" type="text/javascript" src="js/flot-chart/excanvas.min.js"></script><![endif]-->
<script src="js/jquery.scrollTo.js"></script>
</body>
</html>
```

← → Clocalhost/Food%20Waste%20Management%20System%20Using%20PHP/fwms

SIGN

User Name

PASSWORD

Forgot Password?

SIGN

Home



Search

**Fig 5.2.2 : Admin Login Page Snap Shot****5.2.3. Donor Login Code :-**

```
<?php  
session_start();  
error_reporting(0);  
include('includes/dbconnection.php');
```

```
if(isset($_POST['login']))  
{  
    $email=$_POST['email'];  
  
    $password=md5($_POST['password']);  
  
    $query=mysqli_query($con,"select ID from tbldonor where Email='".$email' && Password='".$password' ");  
  
    $ret=mysqli_fetch_array($query);  
  
    if($ret>0){  
  
        $_SESSION['pgasoid']=$ret['ID'];  
  
        header('location:dashboard.php');  
  
    }  
  
    else{  
  
        echo "<script>alert('Invalid Details.');//</script>";  
  
    }  
  
}  
  
?>  
  
<!DOCTYPE html>  
  
<head>  
  
<title>Food Donation System | Donor Login </title>  
  
<script type="application/x-javascript"> addEventListener("load", function() { setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1); } </script>  
  
<!-- bootstrap-css -->  
  
<link rel="stylesheet" href="css/bootstrap.min.css" >  
  
<!-- //bootstrap-css -->  
  
<!-- Custom CSS -->  
  
<link href="css/style.css" rel='stylesheet' type='text/css' />  
  
<link href="css/style-responsive.css" rel="stylesheet"/>  
  
<!-- font CSS -->  
  
<link href='//fonts.googleapis.com/css?family=Roboto:400,100,100italic,300,300italic,400italic,500,500italic,700,700italic,900,900italic' rel='stylesheet' type='text/css'>  
  
<!-- font-awesome icons -->  
  
<link rel="stylesheet" href="css/font.css" type="text/css"/>
```

```
<link href="css/font-awesome.css" rel="stylesheet">

<!-- //font-awesome icons -->

<script src="js/jquery2.0.3.min.js"></script>

</head>

<body>

<div class="log-w3">

<div class="w3layouts-main">

<h2>Sign In Now</h2>

<form action="#" method="post" name="login">

<input type="email" class="ggg" name="email" placeholder="E-MAIL" required="true">

<input type="password" class="ggg" name="password" placeholder="PASSWORD" required="true">

<a href="forgot-password.php">Forgot Password?</a>

<div class="clearfix"></div>

<input type="submit" value="Sign In" name="login">

</form>

<p>Don't Have an Account ?<a href="donor-registration.php">Create an account</a></p>

<p class="mb-1">

<i class="fa fa-home" aria-hidden="true"><a href=".index.php">Home Page</a></i>

</p>

</div>

</div>

<script src="js/bootstrap.js"></script>

<script src="js/jquery.dcjqaccordion.2.7.js"></script>

<script src="js/scripts.js"></script>

<script src="js/jquery.slimscroll.js"></script>

<script src="js/jquery.nicescroll.js"></script>

<!--[if lte IE 8]><script language="javascript" type="text/javascript" src="js/flot-chart/excanvas.min.js"></script><![endif]-->

<script src="js/jquery.scrollTo.js"></script>

</body>

</html>
```

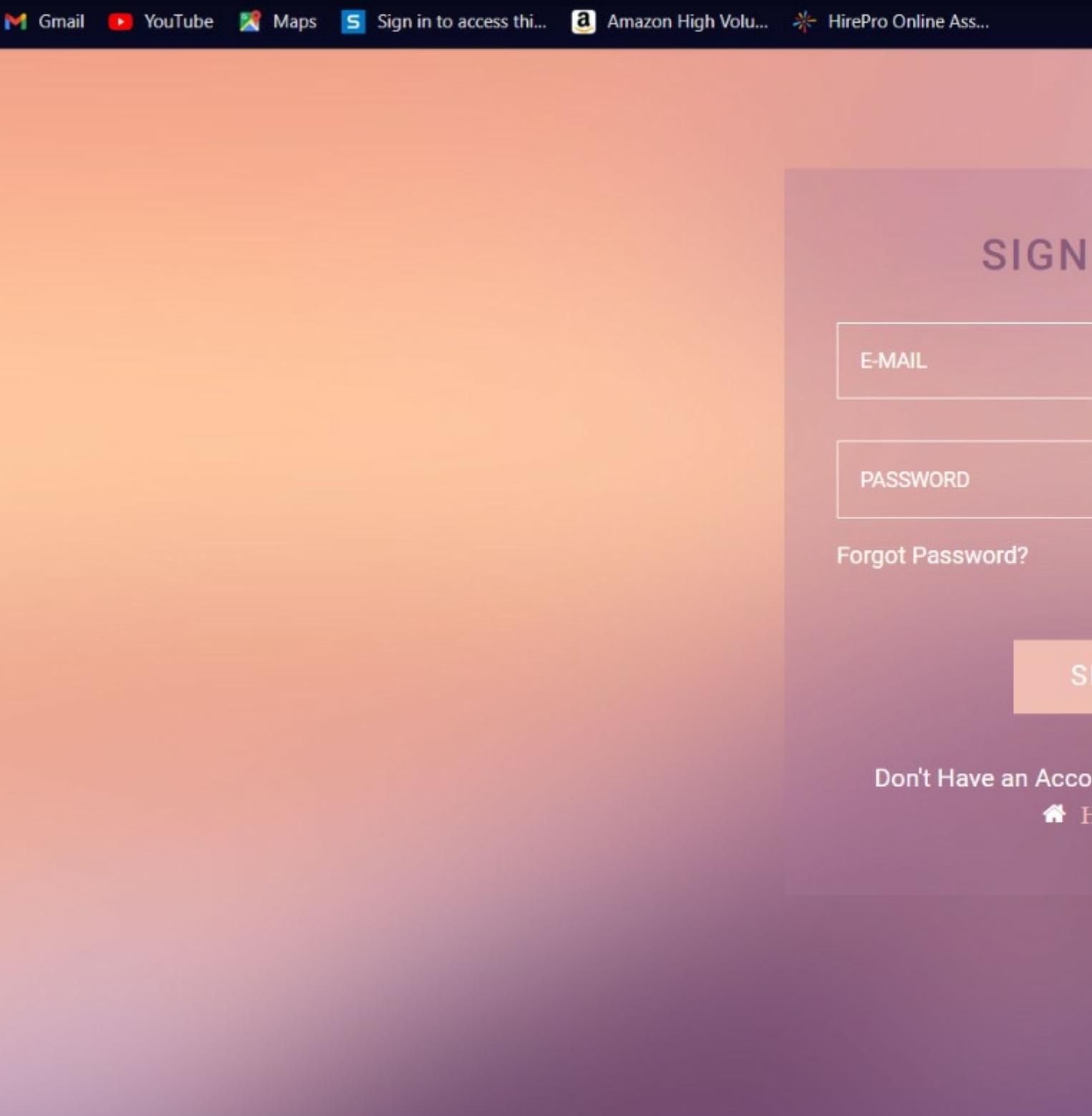


Fig 5.2.3 : Donor Login Page Snap Shot

5.2.4. Donor Registration Code :

```
<?php  
session_start();  
error_reporting(0);  
  
include('includes/dbconnection.php');  
  
if(isset($_POST['submit']))  
{
```

```
$fname=$_POST['name'];

$mobno=$_POST['mobilnumber'];

$email=$_POST['email'];

$password=md5($_POST['password']);

$ret=mysqli_query($con, "select Email from tbldonor where Email='".$email"");

$result=mysqli_fetch_array($ret);

if($result>0){

$msg="This email or Contact Number already associated with another account";

}

else{

$query=mysqli_query($con, "insert into tbldonor(FullName, MobileNumber, Email, Password) value('$fname', '$mobno', '$email', '$password')");

if($query) {

$msg="You have successfully registered";

}

else

{

$msg="Something Went Wrong. Please try again";

}

}

?>

<!DOCTYPE html>

<head>

<title>FWMS | Donor Registration </title>

<script type="application/x-javascript"> addEventListener("load", function() { setTimeout(hideURLbar, 0); }, false); function hideURLbar() { window.scrollTo(0,1); } </script>

<!-- bootstrap-css -->

<link rel="stylesheet" href="css/bootstrap.min.css" >

<!-- //bootstrap-css -->

<!-- Custom CSS -->

<link href="css/style.css" rel='stylesheet' type='text/css' />
```

```
<link href="css/style-responsive.css" rel="stylesheet"/>

<!-- font CSS -->

<link href='//fonts.googleapis.com/css?family=Roboto:400,100,100italic,300,300italic,400italic,500,500italic,700,700italic,900,900italic' rel='stylesheet' type='text/css'>

<!-- font-awesome icons -->

<link rel="stylesheet" href="css/font.css" type="text/css"/>

<link href="css/font-awesome.css" rel="stylesheet">

<!-- //font-awesome icons -->

<script src="js/jquery2.0.3.min.js"></script>

<script type="text/javascript">

function checkpass()

{

if(document.signup.password.value!=document.signup.repeatpassword.value)

{



alert('Password and Repeat Password field does not match');

document.signup.repeatpassword.focus();

return false;

}

return true;

}

</script>

</head>

<body>

<div class="reg-w3">

<div class="w3layouts-main">

<h2>Register Now</h2>

<p style="font-size:16px; color:red" align="center"> <?php if($msg){

echo $msg;

} ?> </p>

<form action="#" method="post">

<input type="text" class="ggg" name="name" placeholder="NAME" required="true">
```

```
<input type="email" class="ggg" name="email" placeholder="E-MAIL" required="true">
<input type="text" class="ggg" name="mobilnumber" placeholder="PHONE" required="true" maxlength="10" pattern="[0-9]+>
<input type="password" class="ggg" name="password" placeholder="PASSWORD" required="true">
<input type="password" class="ggg" name="repeatpassword" placeholder="REPEAT PASSWORD" required="true">
<h4><input type="checkbox" required="true" />I agree to the Terms of Service and Privacy Policy</h4>
<div class="clearfix"></div>
<input type="submit" value="submit" name="submit">
</form>
<p>Already Registered.<a href="login.php">Login</a></p>
</div>
</div>
<script src="js/bootstrap.js"></script>
<script src="js/jquery.dcjAccordion.2.7.js"></script>
<script src="js/scripts.js"></script>
<script src="js/jquery.slimscroll.js"></script>
<script src="js/jquery.nicescroll.js"></script>
<!--[if lte IE 8]><script language="javascript" type="text/javascript" src="js/flot-chart/excanvas.min.js"></script><![endif]-->
<script src="js/jquery.scrollTo.js"></script>
</body>
</html>
```

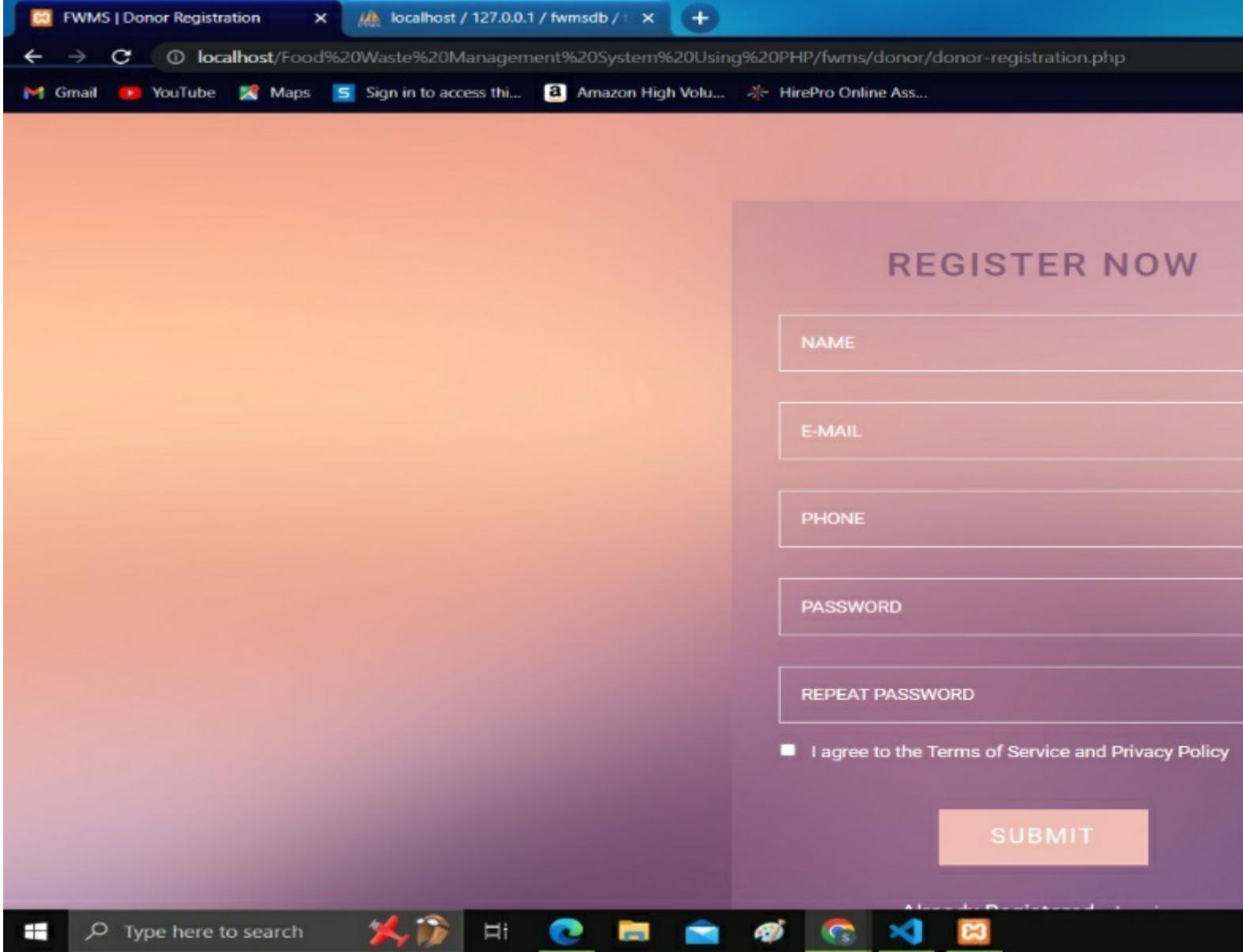


Fig 5.2.4 : Donor Registration Snap Shot

5.3. INSTALLATION AND EXECUTION GUIDELINES :

INSTALLATION :

First we have to open the URL.

- And search for our website i.e., Food donation and open it.

EXECUTION :

1. Start XAMPP Server for loading PHP files into browser.
2. At a time open index (html) file where homepage of our webpage appears.
3. User has to register either a sender or receiver to send or receive food.
4. After Registration, one has to login to access his data either for donate or for receive food.
5. After a while of logged in, user can see below options.
 - a) Search Food → to search food according to location.
 - b) Update food Details → to update food details by sender.
 - c) My Order → where user can see history or any progress orders.

d) Create City → to create a location for search availability.

e) Create Spot → to create a spot as like city.

f) Donate Food → to donate Users food.

g) My Cart → to view any progressive orders.

h) My profile → To edit your data.

6. We included Google Map API for user approach to get the location easily.

CHAPTER 6

TESTING

6.1. INTRODUCTION TO TESTING:

Testing is a group of techniques to determine the correctness of the application under the predefined script but, testing cannot find all the defect of application. The main intent of testing is to detect failures of the application so that failures can be discovered and corrected. It does not demonstrate that a product functions properly under all conditions but only that it is not working in some specific conditions.

Testing furnishes comparison that compares the behavior and state of software against mechanisms because the problem can be recognized by the mechanism. The mechanism may include past versions of the same specified product, comparable products, and interfaces of expected purpose, relevant standards, or other criteria but not limited up to these. Project Testing Phase means a group of activities designated for investigating and examining progress of a given project to provide users with information about actual levels of performance and quality of the project. It is an attempt to get an independent view of the project to allow Users to evaluate and understand potential risks of project failure or mismatch.

When testing a food donation system, it is essential to cover various aspects to ensure its functionality, usability, and reliability. Here are some testing methodologies and approaches you can employ:

6.2. TESTING METHODOLOGY:

UNIT TESTING :

The unit testing of the source code has to be done for every individual unit of module that was developing part of the system and some errors were found for every turn and rectified. This form of testing was use to check for the behavior signified the working of the system in different environment as an independent functional unit.

INTEGRATION TESTING :

From the individual parts to the cohesion of each part to make the system as a whole, there is need to test the working between the assembled modules of the system. The modules are integrated to make up the entire system. The testing process is concerned with finding errors that result from unanticipated interaction between the sub-system and system component. It is also concerned with validating the system meets its functional and non-functional requirement.

SYSTEM TESTING:

The requirement specification document that is the entire system is to be tested to see whether it meets the requirement or not.

6.3. TEST CASES :

ADMIN COMPONENT :

6.3.1. ADDING ADMIN:

Serial	Condition	Test Data	Expected Output	Remarks
---------------	------------------	------------------	------------------------	----------------

No.	To be Tested			
1.	If any field in the form is empty.	Value of form fields.	Alert the user to enter all the fields and then proceed.	SUCCESSFUL
2.	If admin name contains other than Character values.	adminname	Alert the user to enter only Characters and return to same page.	SUCCESSFUL
3.	If login ID is invalid.	loginid	Alert the user to enter a valid login ID and return to the same page.	SUCCESSFUL
4.	If password length is not between 8 to 16 characters.	password	Alert the user to enter a password of length between 8 to 16 characters.	SUCCESSFUL
5.	If confirm password and password does not match.	cpassword, password	Alert the user to enter matching password and confirm password.	SUCCESSFUL

Table No. 6.3.1 : Adding Admin Test Table

- - 1. ADMIN LOGIN:

Serial No.	Condition To be Tested	Test Data	Expected Output	Remarks
1.	If any field in the form is empty.	Value of form fields.	Alert the user to enter all the fields and then proceed.	SUCCESSFUL
2.	If the E-mail ID and Password does not match.	emailid, password	Alert user that E-mail ID and password are not matching and stay in the same page.	SUCCESSFUL

Table No. 6.3.2 : Admin Login Test Table

6.3.3. ADMIN CHANGE PASSWORD :

Serial No.	Condition To be Tested	Test Data	Expected Output	Remarks
1.	If field in the form is empty.	Value of form fields.	Alert the user to enter the fields and then proceed.	SUCCESSFUL
2.	If the E-mail ID is invalid.	loginid	Alert user to enter a valid E-mail ID and stay in the same page.	SUCCESSFUL
3.	If the old password is not between the given range of 8 to 16 characters.	oldpassword	Alert the user to enter a password of length between 8 to 16 characters.	SUCCESSFUL
4.	If the new password is not between the given range of 8 to 16 characters.	newpassword	Alert the user to enter a password of length between 8 to 16 characters.	SUCCESSFUL
5.	If the confirm password and password does not match.	cpassword, password	Alert user that confirm password and password are not matching and stay in the same page.	SUCCESSFUL

Table No. 6.3.3 : Admin Change Password Test Table

DONOR COMPONENT :

6.3.4. DONOR REGISTRATION :

Serial No.	Condition To be Tested	Test Data	Expected Output	Remarks
		Value of form	Alert the user to enter all the fields and then	

1.	If any field in the form is empty.	fields.	proceed.	SUCCESSFUL
2.	If customer name contains other than Character values.	customername	Alert the user to enter only characters and return to the same page.	SUCCESSFUL
3.	If country is not selected.	country	Alert the user to select a country.	SUCCESSFUL
4.	If state is not selected.	state	Alert the user to select a state.	SUCCESSFUL
5.	If PIN Code contains other than numeric values.	pincode	Alert the user to enter only numeric values.	SUCCESSFUL
6.	If contact number contains other than numeric values.	cncctnum	Alert the user to enter only numeric values.	SUCCESSFUL
7.	If mobile number contains other than numeric values.	mblnum	Alert the user to enter only numeric values.	SUCCESSFUL
8.	If E-mail ID is invalid.	emailid	Alert the user to enter a valid E-mail ID and return to the same page.	SUCCESSFUL
9.	If password length is not between 8 to 16 characters.	Password	Alert the user to enter a password of length between 8 to 16 characters.	SUCCESSFUL
10.	If confirm password and password does not match.	cpassword, password	Alert the user to enter matching password and confirm password.	SUCCESSFUL
11.	If the customer type is not selected.	customertype	Alert the user to select a customer type and return to the same page.	SUCCESSFUL

Table No. 6.3.1 : Donor Registration Test Table

•
◦
1. DONOR UPDATE DETAILS :

Serial No.	Condition To be Tested	Test Data	Expected Output	Remarks
1.	If any field in the form is empty.	Value of form fields.	Alert the user to enter all the fields and then proceed.	SUCCESSFUL
2.	If customer name contains other than Character values.	customername	Alert the user to enter only characters and return to the same page.	SUCCESSFUL
3.	If country is not selected.	country	Alert the user to select a country.	SUCCESSFUL
4.	If state is not selected.	state	Alert the user to select a state.	SUCCESSFUL
5.	If city is not selected.	city	Alert the user to select a city.	SUCCESSFUL
6.	If PIN Code contains other than numeric values.	pincode	Alert the user to enter only numeric values.	SUCCESSFUL
7.	If contact number contains other than numeric values.	cncctnum	Alert the user to enter only numeric values.	SUCCESSFUL
8.	If mobile number contains other than numeric values.	mblnum	Alert the user to enter only numeric values.	SUCCESSFUL
9.	If E-mail ID is invalid.	emailid	Alert the user to enter a valid E-mail ID and return to the same page.	SUCCESSFUL
10.	If password length is not between 8 to 16 characters.	Password	Alert the user to enter a password of length between 8 to 16 characters.	SUCCESSFUL
11.	If confirm password and password does not match.	cpassword, password	Alert the user to enter matching password and confirm password.	SUCCESSFUL
12.	If the customer type is not selected.	customertype	Alert the user to select a customer type and return to the same page.	SUCCESSFUL

Table No. 6.3.5 : Donor Update details Test Table•
◦
1. DONOR LOGIN :

Serial No.	Condition To be Tested	Test Data	Expected Output	Remarks
1.	If any field in the form is empty.	Value of form fields.	Alert the user to enter all the fields and then proceed.	SUCCESSFUL
2.	If the E-mail ID and Password does not match.	emailid, password	Alert user that E-mail ID and password are not matching and stay in the same page.	SUCCESSFUL

Table No. 6.3.6 : Donor Login Test Table•
◦
1. DONOR CHANGE PASSWORD :

Serial No.	Condition To be Tested	Test Data	Expected Output	Remarks
1.	If field in the form is empty.	Value of form fields.	Alert the user to enter the fields and then proceed.	SUCCESSFUL
2.	If the E-mail ID is invalid.	loginid	Alert user to enter a valid E-mail ID and stay in the same page.	SUCCESSFUL
3.	If the old password is not between the given range of 8 to 16 characters.	oldpassword	Alert the user to enter a password of length between 8 to 16 characters.	SUCCESSFUL
4.	If the new password is not between the given range of 8 to 16 characters.	newpassword	Alert the user to enter a password of length between 8 to 16 characters.	SUCCESSFUL
5.	If the confirm password and password does not match.	cpassword, password	Alert user that confirm password and password are not matching and stay in the same page.	SUCCESSFUL

Table No. 6.3.7 : Donor Change Password Test Table•
◦
1. DONOR FORGOT PASSWORD :

Serial No.	Condition To be Tested	Test Data	Expected Output	Remarks
1.	If field in the form is empty.	Value of form fields.	Alert the user to enter the fields and then proceed.	SUCCESSFUL
2.	If the E-mail ID is invalid.	emailid	Alert user to enter a valid E-mail ID and stay in the same page.	SUCCESSFUL

Table No. 6.3.8 : Donor Forget Password Test Table**STATE COMPONENT :**

Serial No.	Condition To be Tested	Test Data	Expected Output	Remarks

1.	If any field in the form is empty.	Value of form fields.	Alert the user to enter all the fields and then proceed.	SUCCESSFUL
2.	If state contains values other than characters.	state	Alert the user to enter only characters for state name.	SUCCESSFUL

Table No. 6.3.9 : State details Test Table

CITY COMPONENT :

Serial No.	Condition To be Tested	Test Data	Expected Output	Remarks
1.	If any field in the form is empty.	Value of form fields.	Alert the user to enter all the fields and then proceed.	SUCCESSFUL
2.	If country is not selected.	country	Alert the user to select a country.	SUCCESSFUL
3.	If state is not selected.	state	Alert the user to select a state.	SUCCESSFUL
4.	If city contains values other than characters.	city	Alert the user to enter only characters for city name.	SUCCESSFUL

Table No. 6.3.10 : City details Test Table

CHAPTER 7

CONCLUSION

CONCLUSION :

The project titled as **Food Donation System** was deeply studied and analyzed to design the code and implement. It was done under the guidance of the experienced project guide. All the current requirements and possibilities have been taken care during the project time.

In our project, we are targeting the person who wants to donate wastage food this will create a greater impact on the cost saving as well as the food wastage management system, and there will be greater impact on the day by day food wastage. We would like to conclude that our project shall aim at helping the needy by connecting them with the donors by using the NGOs as an intermediary who shall do their job aided by the application that we shall provide them. Our application shall aim to mitigate issues like lack of awareness among donors, lack of transparency in the donation process and thus acts as a bridge between the people in need.

In our future work, we will try to integrate with other emerging technology such as block chain and also it will cover more areas.

CHAPTER 8

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& REFERENCES

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- <https://www.php.net/>

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