

A PLATFORM TO CONNECT FOOD DONOR AND HUNGRY PEOPLE

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering.

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APPROVAL

This Project/internship titled “A platform to connect food donor and hungry people”, submitted by Imran Khalid, Shefaul Islam and Abu Sayem Akand, ID No: 161-15-6879, 161-15-7085 and 161-15-6975 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 7th December 2019.

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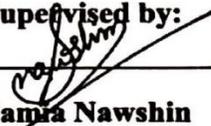
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We hereby declare that, this project has been done by us under the supervision of **Samia Nawshin, Lecturer, Department of CSE Daffodil International University**. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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ABSTRACT

We live in developing country but we have a lot of poor people who can't eat properly. On the other hand, we saw lot of food waste for different reasons. We saw in Dhaka city there are lot of food wasted in party, restaurant, house and other occasions. If these wasted foods are properly distributed, it is possible to eliminate the problem of many poor people. In this situation we are trying to solve this problem to create a platform, where we trying to connect hungry poor people and food donors. It might could help poor starving people slightly. We create a user friendly website for food donors where all donors can donate their wasted food very easily. First of all users have to registration for login our website. After login they can see a window to select options to donate their foods. They can choose food name, quantity, image, drop location, donation time. They chose their desire options to easily donate. We take donors phone numbers to communicate when we needed.

TABLE OF CONTENTS

CONTENTS	PAGE
Board of examiners	i
Declaration	ii
Acknowledgements	iii
Abstract	iv
List of figure and table	vii - viii
CHAPTER 1: INTRODUCTION	1-3
1.1 Introduction	1
1.2 Motivation	2
1.3 Objective	2
1.4 Expected Outcome	3
CHAPTER 2: BACKGROUND	4-6
2.1 Introduction	4
2.2 Related Works	4-5
2.3 Comparative Studies	5
2.4 Scope of the Problem	6
2.5 Challenges	6
CHAPTER 3: REQUIRMENT SPECIFICATION	7-17
3.1 Introduction Business Process Modeling	7
3.2 Requirement Collection and Analysis	7-9
3.3 Logical Data Model	10-12

3.4 Data Follow Diagram	12-14
3.5 Use Case Modeling and Description	15-17
CHAPTER 4: DESIGN SPECIFICATION	18-23
4.1 Front-end Design	18-20
4.2 Back-end Design	20-22
4.3 Flow Chart	22-23
CHAPTER 5: IMPLEMENTATIONN AND TESTING	24-27
5.1 Implementation of Database	24
5.2 Testing Implementation	24-25
5.3 Test Results and Reports	25-27
CHAPTER 6: CONCLUSION AND FUTURE SCOPE	28-29
6.1 Discussion and Conclusion	28
6.2 Limitations	28
6.3 Future Scopes	29
APPENDIX	
References	30

LIST OF FIGURES

FIGURES	PAGE NO
Figure 2.1: Global Hunger Index Score of Bangladesh (2002-2018)	6
Figure 3.1: Entity Relationship Diagram	10
Figure 3.2: Schema Diagram	11
Figure 3.3: Sequence Diagram	12
Figure 3.4: Data Follow Diagram level 0 (DFD0)	13
Figure 3.5: Data Follow Diagram level 1 (DFD1)	14
Figure 3.6: Use Case of Admin	15
Figure 3.7: Use Case of User	16
Figure 3.8: Use Case of Volunteer	17
Figure 4.1: Front-End(Home Page)	18
Figure 4.2: All Donation	19
Figure 4.3: Donate Options	19
Figure 4.4: Registration and login	20
Figure 4.5: Database Overview	21
Figure 4.6: Database Donate Table	21
Figure 4.7: Database user table	22
Figure 4.8: Flow Chart	23

LIST OF TABLES

TABLES	PAGE NO
Table 3.1: Functional Requirements	8
Table 3.2: Data Requirements	8
Table 3.3: Availability Requirements	9
Table 3.4: Access Requirements	9
Table 3.5: Maintenance Requirements	9
Table 3.6: Use Case-Admin	15
Table 3.7: Use Case of User	16
Table 3.8: Use Case of Volunteer	17
Table 5.1: Test Case of Check User Registration System	26
Table 5.2: Test case of Check User Donate System	27

CHAPTER 1

INTRODUCTION

1.1 Introduction

A website is more efficient for any kind of organization for making their work easy and fast. Our project is mainly a website to create a platform to connect poor people and food donors. This is a helpful project for our society. It is an ecofriendly project. Users can create a profile on our website by registration for donating their extra food. We have some admin to get users notification as like email and they trying to collect food as early as possible.

In our country, there are a lot of poor people. They can't feed properly by their self. To solve this problem there not have a well-planned web platform. For this, we create a website to help them. This project is a smart service to help poor starving people. User can easily donate their food by user-friendly options.

Every Organization need a website to make their day to day task. For this, they need a well-planned website. Our project is a web-based project. The web-based project has huge scope.

A web-based project have different vision. Our main vision to help poor people and create a big platform in this smart service. This is an ecofriendly project.

This system is a useful system. In our country, there's a lot of food donate platform but don't have a good web-based platform. This is a necessary system for help users to connect people. Now this is the era of web browsing world. In this time our project is very useful to make a great platform.

Our project is a necessary platform for our users so we think this project is a proper platform to connect people.

1.2 Motivation

In our country around us we can see in food factories, restaurant, food shops and some events have extra food get waste regularly. And also see there are many poor people who doesn't have enough food to eat. Many people want to donate food but they cannot find the right medium. This is our initiative, thinking of all these donors and helpless people. We are doing a project to reduce food waste and give the food to the people who are not getting enough food. Basically, our main purpose is providing food to starving people. Now a day's majority of people uses smart device with active internet connection. This is why we thought how donors can easily donate their extra food to the helpless people. Then we create a website where donors donate food and we can try to provide this food to hungry people.

1.3 Objectives

Every project has some objectives. As follows our project have some objectives. The main objectives of our object are as follows:

1. We are going to solve food rotten or waste problem.
2. To help hungry people by distributing this extra food.
3. To make a great platform
4. To make a user-friendly Food donate website.
5. Reduced Donation problem.
6. We make a website to make a connection between those organizations who have extra food which will waste and those people who are not getting enough food.

1.4 Expected Outcome

1. No food will waste in factories, restaurant, shops and events.
2. Poor hungry people will meet dietary energy requirements.
3. Food donors can find a reliable foundation to donate their wasted food.
4. Poor and hunger people are getting food.
5. Create a platform to connect food donor and hungry people.
6. This is a development project so this project has a huge scope to developed in future.
7. This platform helps both respective donors and hungers. Our expectation this platform makes a great Dhaka city.

CHAPTER 2

BACKGROUND

2.1 Introduction

Sustenance and waste product are creating by and enormous issue as so much back as scarcely any years. With rested money connected headway and developing creation, waste product can incorporate grave concern likewise in Bangladesh at some purpose or another. Bangladesh, being the ninth most swarmed and twelfth most thickly inhabited nation on earth can unquestionably bear the results of each sustenance insufficiency relatively as sustenance debacle if the sustenance wastage issue is not cared-for. Our web site can move as a sustenance bank. Wherever supporters offer their additional sustenance, offer through our web site. This may decrease sustenance waste and address the problems of sustenance for hungry individuals.

2.2 Related Works

First of all, users will register in our organization for donating food. Then they can log in and see all the information for the food donation. Then donors will give us information about the details of extra food and location. Then our volunteers will collect the food and distribute it to a certain area.

Utsho Bangladesh is a grassroots, network-based association of Bangladesh. It is a foundation of gift nourishment moreover. Its vision is to guarantee every person have the right to endure, access to free social insurance and instruction and free from all mistreatment. [1]

Save the Children has been in Bangladesh since 1970, and today our ventures arrive at in excess of 15 million people each year. With a staff of more than 800 and an arrangement of more than 100 assistants, we offer a wide extent of progress programs, while propelling the children's and youngsters' principal rights: guidance, incredible prosperity, and presence without brutality. We are likewise a main helpful association for displaced person

kids in Bangladesh, with expertly prepared staff and demonstrated projects to react quickly and successfully to the nation's regular crises. [2]

2.3 Comparative Studies

Food waste is a global problem. Approximately, one-third of the food that is prepared for human consumption annually (about 1.3 billion tons) is wasted. Bangladesh is not exempt from contributing to this problem. Dhaka, the capital city of Bangladesh, is home to roughly 18 million people and produces approximately 5,000 tons of food waste daily. This has a negative impact on the environment and the overall health of the people of Dhaka. [3]

This report will focus on three main like inquiry on the subject of food waste.

- 1) The impact food waste has on the environment
- 2) Strategies we can use to reduce food waste.
- 3) And also provide this to hungry or starving people.

2.4 Scope of the Problem

Bangladesh goes two steps up in ranking from 70th position to 68th in Global Hunger Index (GHI). On the other hand, food waste has on the environment is a major issue. When food is wasted, it often ends up in a landfill. When this waste breaks down it produces methane which is known to be a heat-absorbing gas that can be nauseating in concentrations. This alone can cause environmental and human health risks. Natural matter in landfills produces approximately 20 % of global methane emissions. [4]

Bangladesh is one of the world's most densely populated nations, with hardly 163 million people living here. Considered a less salary country- it had a capita GDP of \$1,517 in 2017 – Bangladesh. [5]

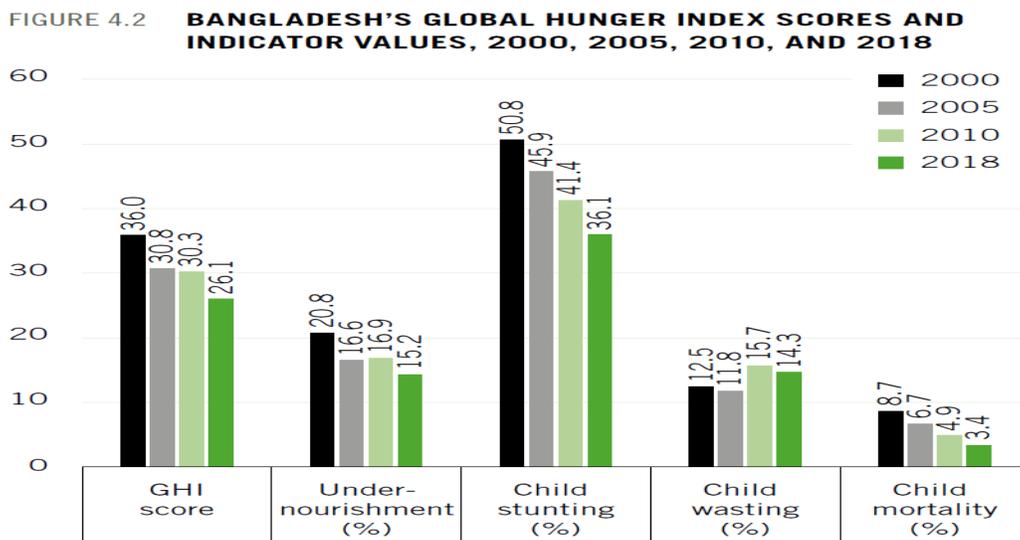


Figure 2.1: Global Hunger Index Score of Bangladesh (2002-2018)

2.5 Challenges

Our website typically don't solve any problems by itself. Donors must have a device with an internet connection. Donors should be encouraged to donate food. Another challenge is to collect volunteer for processing and distribution food. Maintain food quality. Collect food at the right time and process it for distribution to a certain amount of people. As a non-profit organization, our main challenge is to find funding for food transportation and packaging cost.

CHAPTER 3

REQUIRMENT SPECIFICATION

3.1 Introduction

An item strategy model is genuinely expected to develop an assignment. Obviously, there have some improvement approaches in any item model to execute the perfect model. This intentionally model reliably suggests building a system chart model. This model relies upon various nature on the undertaking. There may have a couple of troubles and various characteristic limits in addition. To complete an absurd endeavour the board, we need to develop an item method model/diagram. Here we use an item method model. A record use to depict the conduct of the product framework. Functional, Nonfunctional necessities of the product framework.

3.2 Requirements

In web-based and utilitarian essential describes a structure or its section. It portrays the capacities a product must perform. Our utilitarian prerequisite is our site has easy to use choices. Clients pick their alternatives to give nourishment. Enlistment framework, User account, Users Donate Request, Login.

Functional Requirements

TABLE 3.1: FUNCTIONAL REQUIREMENTS

ID	Name	Description	Priority
01	Registration	Donor can register by using this their personal information or non-personal information.	High
02	Registration	Users (donors, Admin, volunteer) can register by using a module.	High
03	Login	Donors must log in this website to donate food.	High
04	Donate Request	Donor submits a request for donating food and Admin approve the requests.	High

Data Requirements

TABLE 3.2: DATA REQUIREMENTS

No	Description	Priority
01	Donor name, Email, Address, Phone Number, Quantity of food, Pick up location, Drop up location, Receiver Phone Number.	High
02	Volunteer name, Address, Phone, admin name, Profile.	High

Nonfunctional Requirements

Availability Requirements

TABLE 3.3: AVAILABILITY REQUIREMENTS

No	Description	Priority
01	The system should work 24 hours a day.	Medium
02	The system should provide the desired service to the user in time.	High

Access Requirements

TABLE 3.4: ACCESS REQUIREMENTS

No	Description	Priority
01	Users need to be authorized first to access the submission of donate request.	High
02	Only Administrative authority will be able to enter the system to make maintenance.	High
03	Volunteer can only get the information by Admin	High
04	Admin only access the Admin panel.	High

Maintenance Requirements

TABLE 3.5: MAINTENANCE REQUIREMENTS

No	Description	Priority
01	The system maintenance should be quick.	Low

3.3 Logical Data Model

Entity Relationship Diagram: An entity-relationship diagram, additionally referred to as associate entity-relationship model, maybe a graphical illustration of associate data system that depicts the relationships among folks, objects, places, ideas or events at intervals that system.

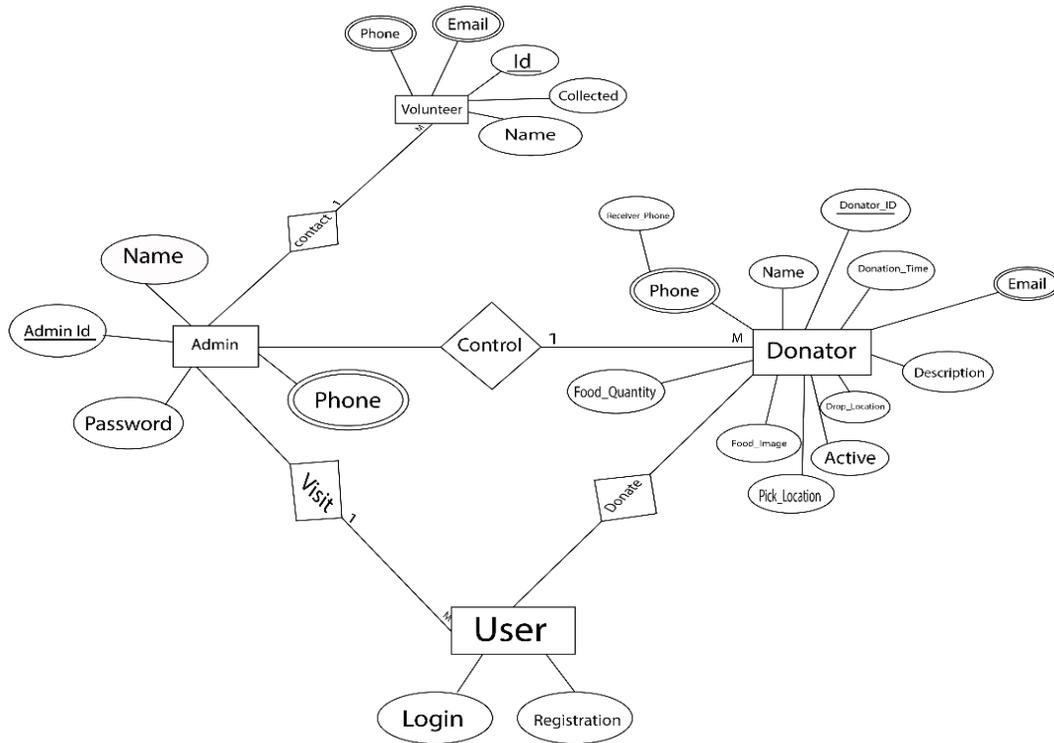


Figure 3.1: Entity Relationship Diagram

Schema Diagram: Schema contains pattern objects that may well be tables, sections, data sorts, sees, place away methodology, connections, essential keys, remote keys, and so on.

[6]

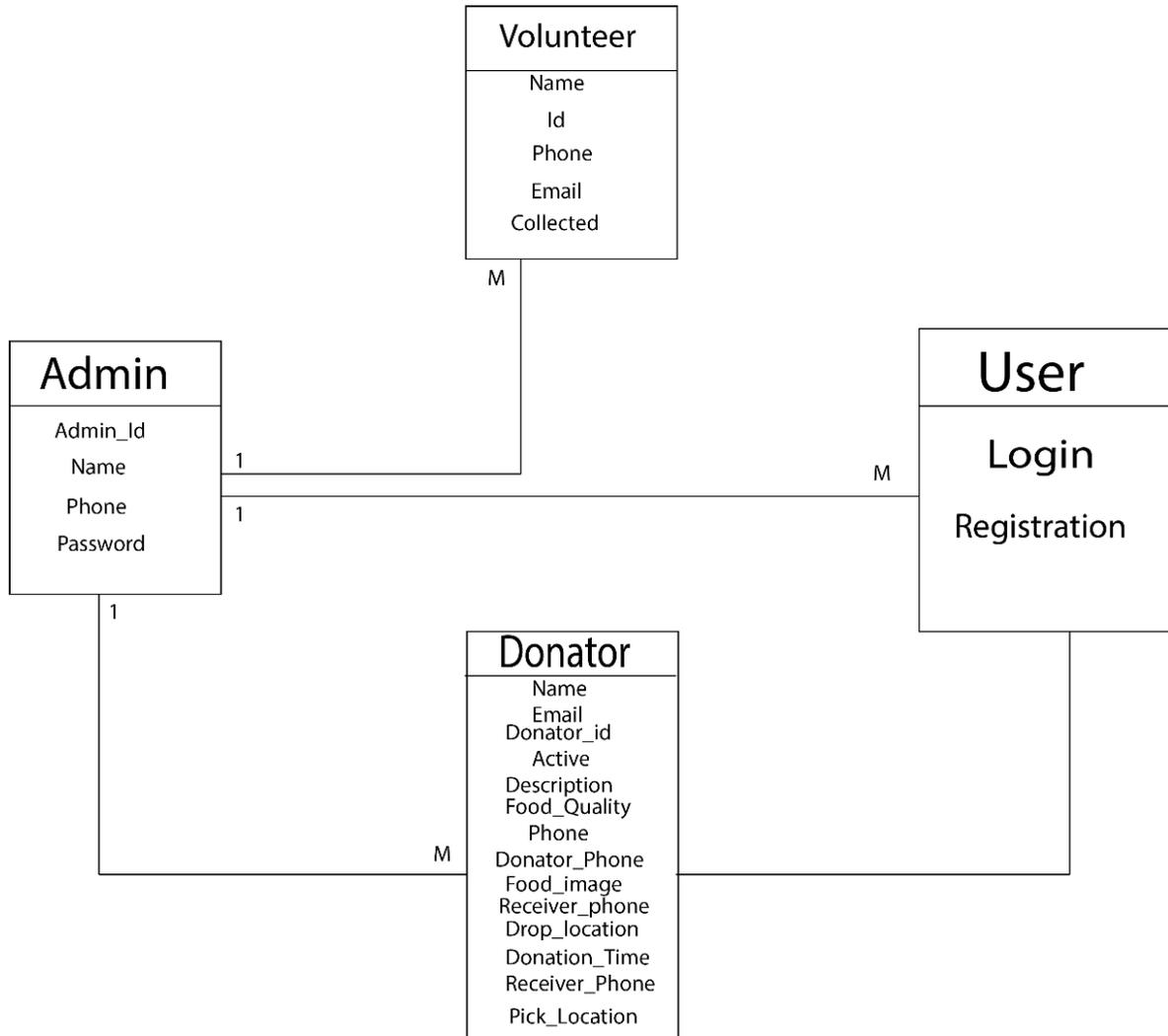


Figure 3.2: Schema Diagram

Sequence Diagram: The UML includes diagrams parenthetically however objects interact via messages. They're used for dynamic object modelling. The term interaction diagram may be a generalization of 2 a lot of specialized UML diagram types:

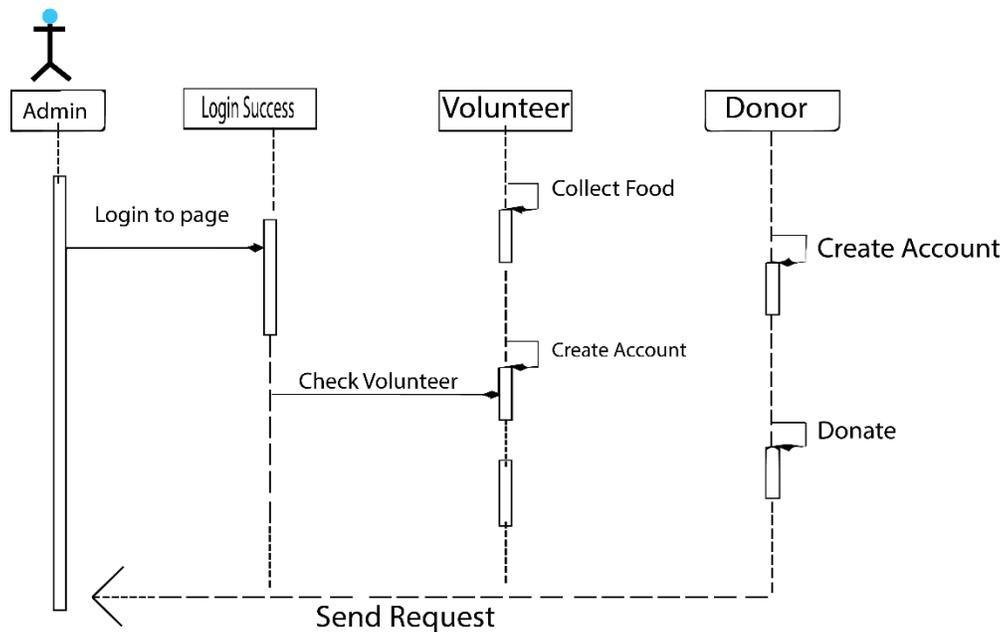


Figure 3.3: Sequence Diagram

3.4 Data Follow Diagram (DFD)

A data flow diagram (DFD) is a graphical representation of the "flow" of data through an information system, modelling its process aspects. DFDs can also be used for the visualization of data processing (structured design). The below DFD shows what kind of information will be input to and output from the system, where the data will come from and go to, and where the data will be stored.

DFD Level 0

As its name indicates its focus is on the flow of information, where data comes from, where it goes and how it gets stored.

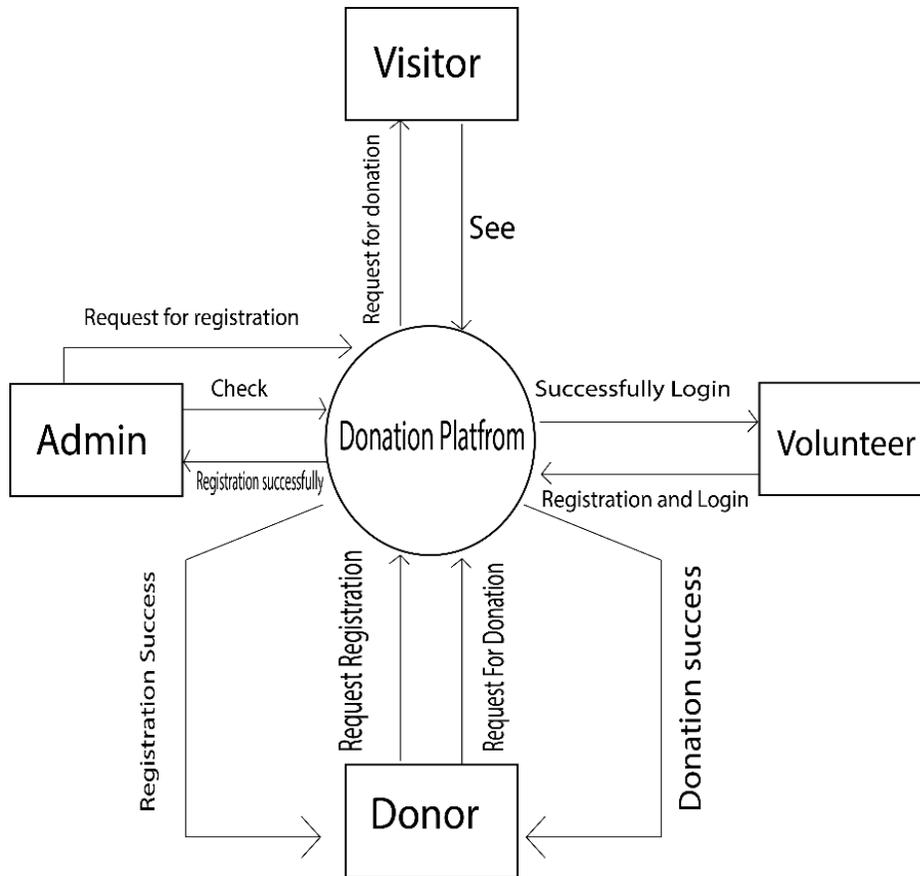


Figure 3.4: Level 0 Data Flow Diagram (DFD0)

DFD Level 1

The Level 1 DFD shows however, the system is split into sub-systems (processes), every of that deals with one or a lot of the information flow to or from an external agent, and that along offer all of the practicality of the system as a full.

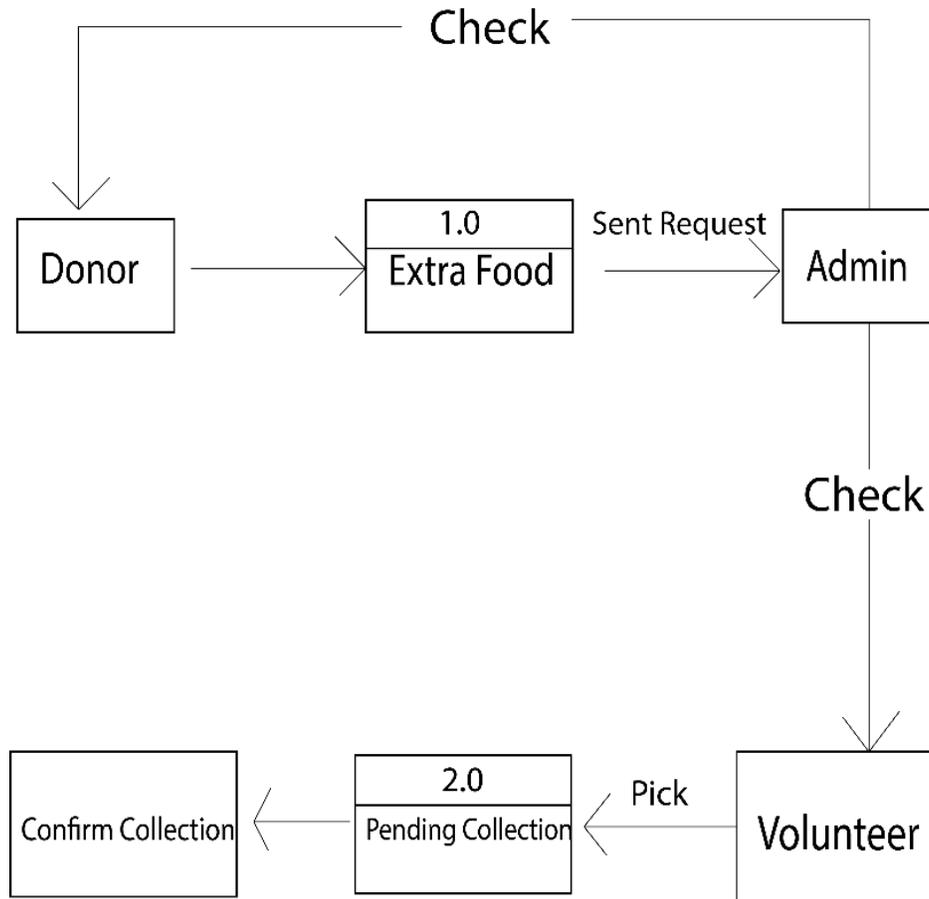


Figure 3.5: Level 1 Data Flow Diagram (DFD1)

3.5 Use Case

Use Case For Admin

Admin of System has the necessary data required for Reports generation. Admin can also login account and can assign roles to accounts login. He can also update website information, add volunteer, approve donate request and send information to volunteer.

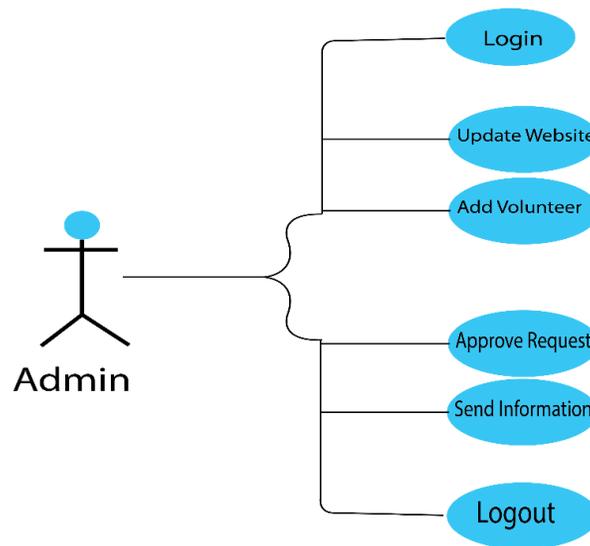


Figure 3.6: Use Case of Admin

TABLE 3.6: USE CASE-ADMIN

Use Case No	1.1
Use Case Name	Admin
Actor	Admin
Description	Allowing admin to login, add volunteer, update website, send information and logout to the system.
Precondition	Admin should remain in the login page.
Trigger	Click the “Login” link.
Flow Of Events	<ul style="list-style-type: none"> • Two text fields to give input of the username and password respectively. • Write the username and password on that field and click the login button.
Post Condition	Admin logged into the system.

User Use Case

User are mainly donors and visitors to the website. Donors can donate, edit their profile but first, they have to login or register (if don't have an account). All users can visit website, check all donate foods information, all donors name and can contact with admin through email.

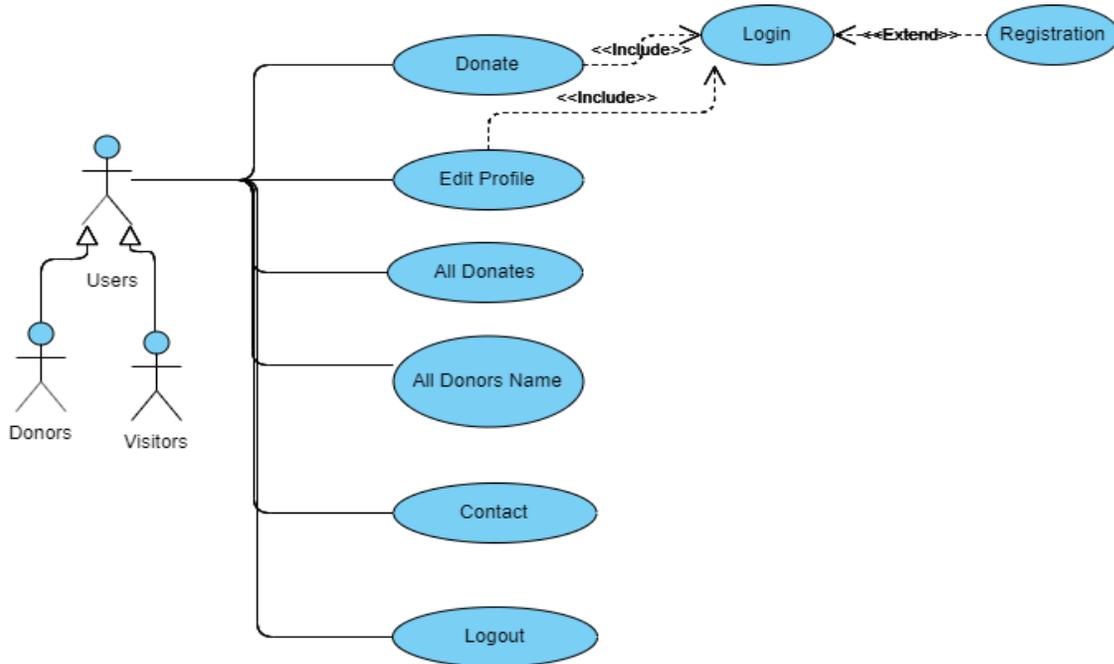


Figure 3.7: Use case of user

TABLE 3.7: USE CASE OF USER

Use Case No	1.2
Use Case Name	User
Actor	Donor, Visitor
Description	Allowing admin to login, add donor, update website, edit profile, contact with donors and logout to the system.
Precondition	User should remain in the registration and then log in to become a donor page.
Trigger	Click the "Registration and Login" Link.
Flow Of Events	<ul style="list-style-type: none"> • Some text fields to give input of the username, phone number, email and password respectively for registration. • Two text field to give input of the name and password respectively for login. • Write the username and password on that field and click the login button.
Post Condition	Donors logged into the system.

Volunteer Use Case

Volunteer is the main part of this project. They will pick the extra food from donors and distribute to hungry people.

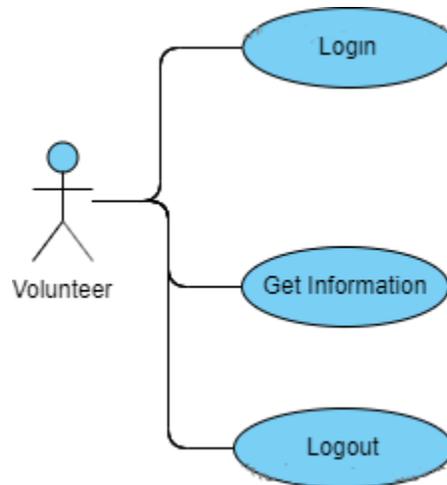


Figure 3.8: Use Case of Volunteer

TABLE 3.8: USE CASE OF VOLUNTEER

Use Case No	1.3
Use Case Name	volunteer
Actor	Admin
Description	Allowing admin to login, get information, contact with admin and logout to the system.
Precondition	Volunteer should remain in the registration and then log in to become a volunteer
Trigger	Click the “Registration and Login” Link.
Flow Of Events	<ul style="list-style-type: none">• Two text field to give input of the name and password respectively for login.• Write the username and password on that field and click the login button.
Post Condition	Volunteer logged into the system.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

Front-End is that the little area that joins the OH therefore stunning world of style that involves Shapes, Textures, Balance, Color, and Symmetry and also the Logical Entity that's forepart Development comprising of Border-radius, Background-image, Floats, Grids and Flexbox. Frontend style involves making the markup language, CSS, and display JavaScript code that produces up a computer programed. [7]

Some Designs are given:

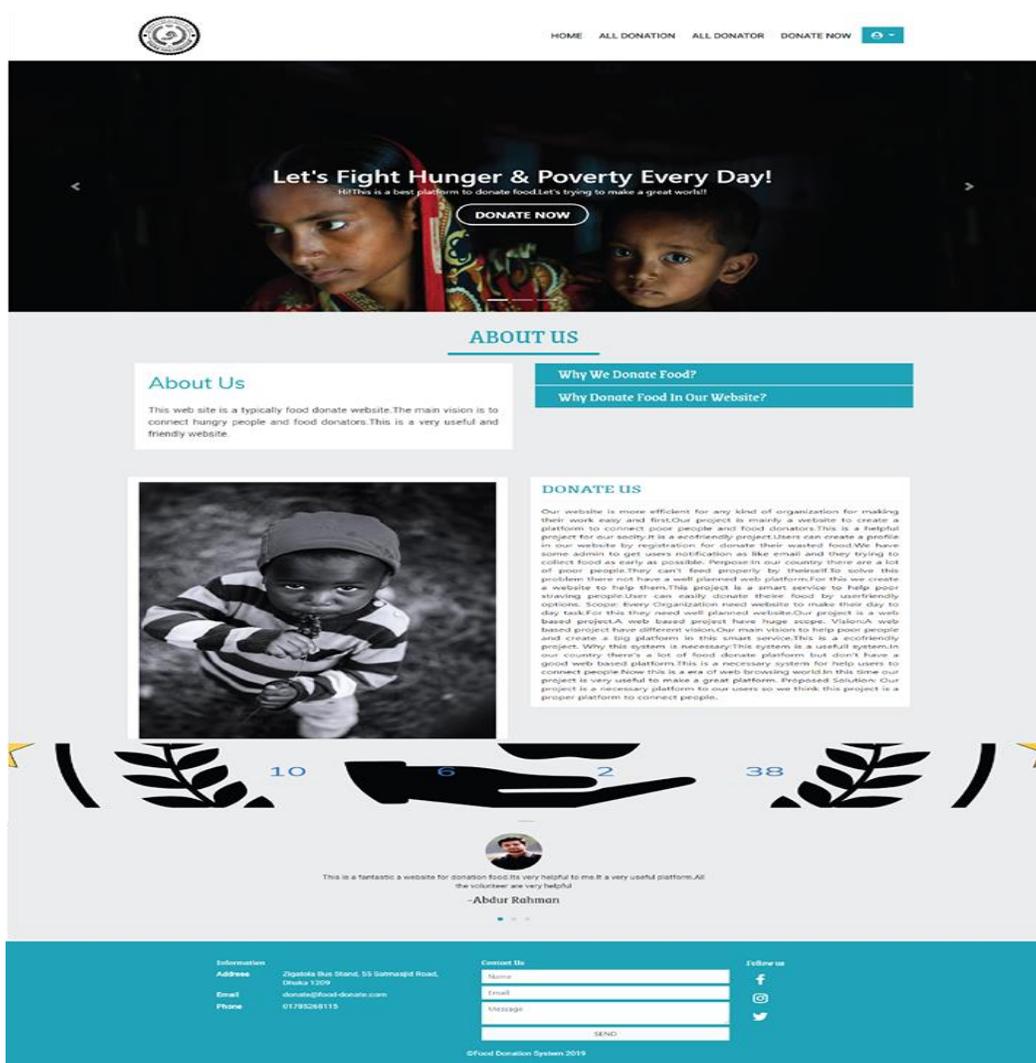


Figure 4.1: Front-End (Home Page)

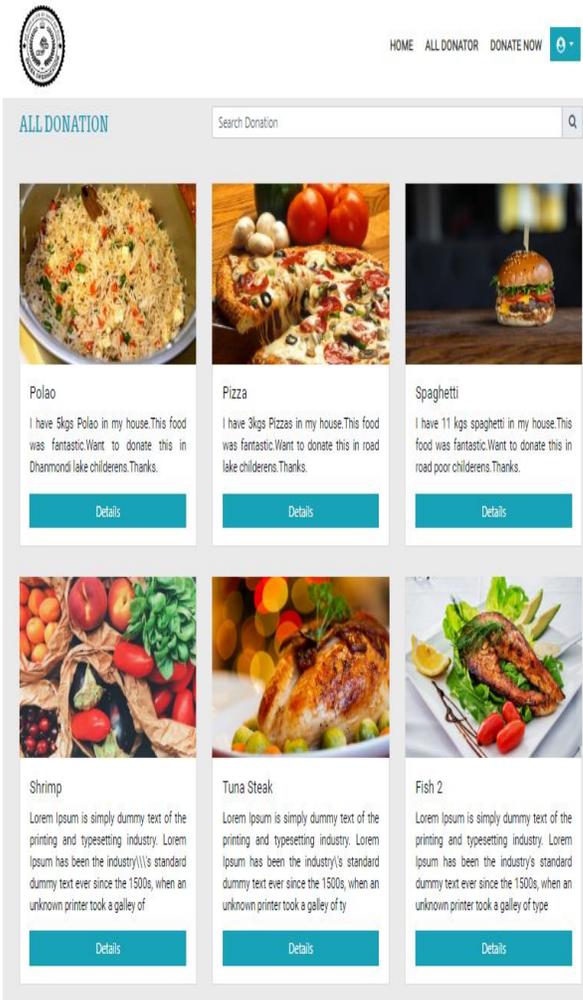


Figure 4.2: All Donation

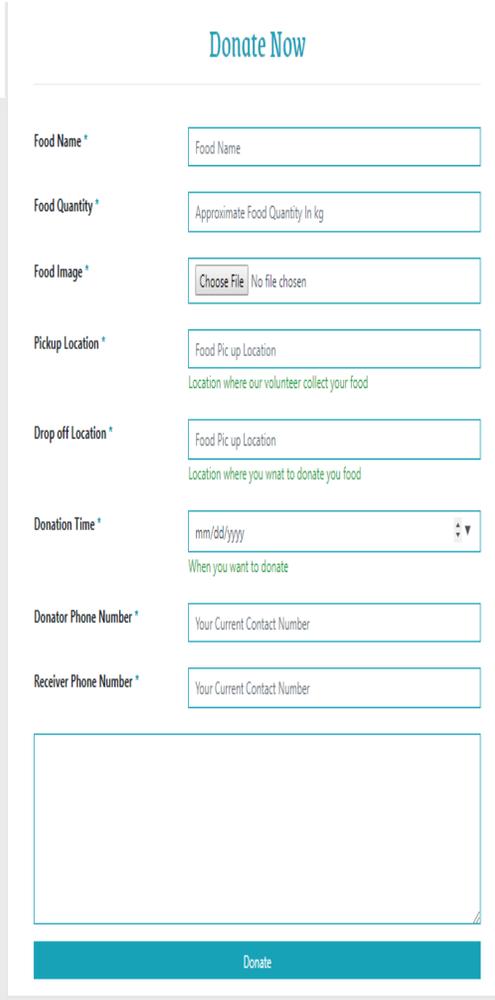


Figure 4.3: Donate Options



Login

[Forgot password ?](#)

Registration

Condition

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Mollitia fugiat nisi at autem dolores suscipit commodi tenetur quod voluptatibus asperiores beatae iste tempore neque, nesciunt amet animi esse. Asperiores possimus tenetur eum est autem, reprehenderit veritatis quod obcaecati repellat maiores iste modi fugiat sint consectetur eveniet? Ipsam impedit consequuntur quae vitae sed alias magnam modi voluptate soluta voluptates beatae quas vero dicta, fuga, facilis, error, nostrum praesentium ad nulla! Aspernatur laudantium, eligendi labore. Dignissimos debitis sint esse maiores voluptatem elige.

Information	Contact Us	Follow us
Address Zigatola Bus Stand, 55 Satmasjid Road, Dhaka 1209	<input type="text" value="Name"/>	
Email donate@food-donate.com	<input type="text" value="Email"/>	
Phone 01785268115	<input type="text" value="Message"/>	
	<input type="button" value="SEND"/>	

@Food Donation System 2019

Figure 4.4: Registration and login

4.2 Back-End Design

The back-end, or the server-side, is essentially however, the positioning works, updates, and changes. This refers to everything the user cannot see within the browser, like databases and servers. Making a dynamic web site needs back-end developers or a minimum of back-end development. A dynamic website could be a site that is perpetually dynamical and updated in period. Most sites are dynamic sites, as hostile static sites. Facebook, Google Maps and this diary are all thought of dynamic sites since their content is consistently dynamical and change. A dynamic web site needs information to figure properly. All data is kept within the information, like user profiles or pictures they've uploaded, or diary posts. [8]

Some Designs are given

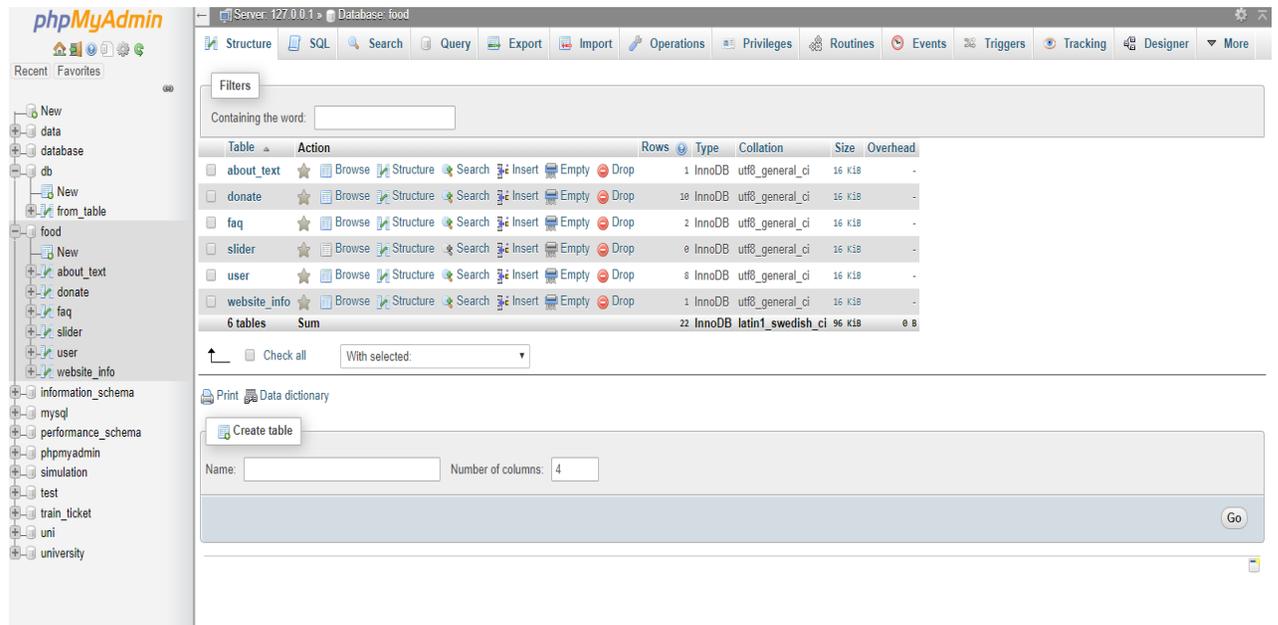


Figure 4.5: Database Overview

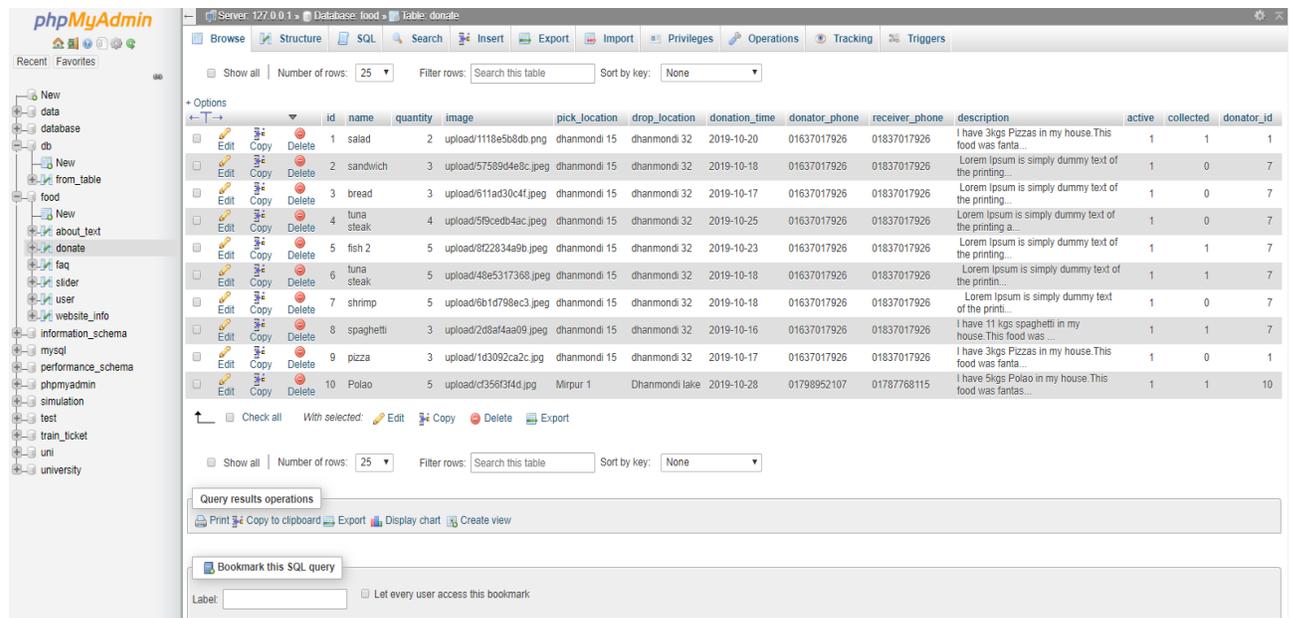


Figure 4.6: Database Donate Table

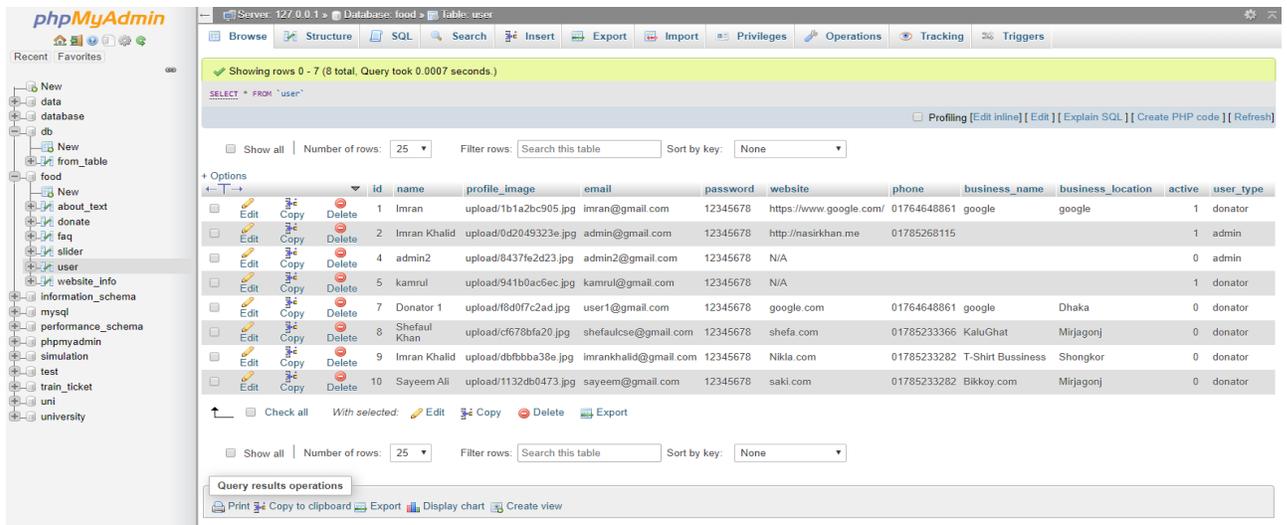


Figure 4.7: Database user table

4.3 Flow Chart

1. Admin or user starts with the registration process.
2. Either the logs in as a donor or user.
3. If a user wants to a donor, he will definitely registration first then login and start donating.
4. If his ID and password is wrong, he would go back to the login.
5. If user ID and password are correct he can see a donate system.
6. After doing this process if there is nothing to do, he could exit the program.

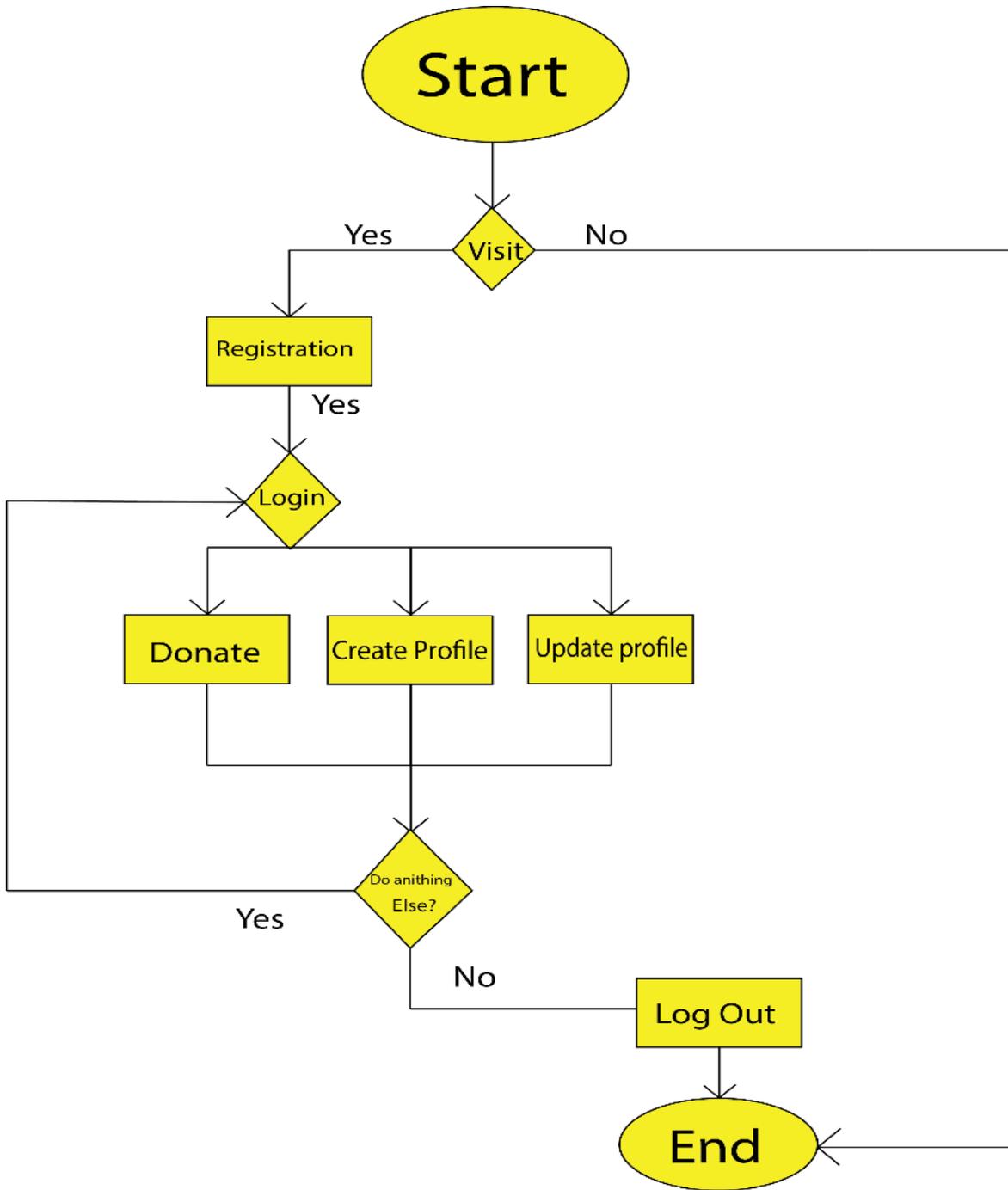


Figure 4.8: Flow chart

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation

Implementation (programming) purpose of read depicts programming usage in a very specific innovation. In the UP, Implementation means that programming and building the framework, not causing it.

In the execution stage, the designer fabricates the elements either with none preparation or by organization gave the engineering report from the design stage and therefore the necessity archive from the investigation stage. The planning record ought to offer direction. Generally deals with problems with quality, performance and debugging. The tip deliverable of the Implementation stage is just the item.

5.1.1. Tools: Following are the programming language and tools used to develop the project:

HTML5, CSS, JavaScript, Bootstrap 4, PHP, Ajax, OOP PHP, Adobe Illustrator, Sublime Text 3, XAMPP.

5.2 Testing

System Testing: The testing method is Associate in Nursing equally integral a part of development and coming up with. Sooner or later, several organizations that develop software system have returned to the conclusion that they have to arrange a top quality assurance service system.

5.2.1. Cause of Essential is Software Testing: Software Testing is an important site in this project. Following the types:

- Software testing finding error.
- Client's dependability and their fulfilment in the application.

- It's required to stay in the business.
- System testing is important to guarantee the nature of the item.
- Every project needed System testing.

5.2.2. Black Box Testing: Black Box is a technique for software testing it is basic to site in the framework testing. This strategy for test can be applied basically to each degree of software testing. So every venture required discovery testing. Black Box is either utilitarian or non-practical.

5.2.3. White box testing: White Box Testing is a technique for programming testing it is a significant site in the framework testing. A product testing procedure whereby unequivocal learning of the inward functions of the thing being tried are utilized to choose the test information.

5.2.4. Test Case: A test case is a detail of the sources of info, execution conditions, testing technique, and expected results that characterize a solitary test to be executed to accomplish a specific programming testing objective, for example, to practice a specific program way or to confirm consistency with a particular prerequisite.

5.3 Test Results and Reports

Project Test Case: A test case is a determination of the sources of info, execution conditions, testing methodology, and expected results that characterize a solitary test to be executed to accomplish a specific programming testing objective, for example, to practice a specific program way or to confirm consistency with a particular necessity.

Test Case Name: Check User Registration System

TABLE 5.1: TEST CASE OF CHECK USER REGISTRATION SYSTEM

Test Case Id	Test Case Description	Pre-Condition	Expected Output	Actual Output	Result	Tested On
1. Display the Application_01	First, open The desired browser	Experiment at Web browsers, Tab, Mobile devices' browser.	To show the pages effectively	Page showed effectively	Passed	17-09-19
2. User_Test_o2	User visits the website frequently	User must have a browser	User Shows the homepage	User successfully visits the site	Passed	5-09-19
3.Registration_03	User visit and if he wants to registration	User must visit the website first	User want to registration	Successfully registration	Passed	17-09-19
4. Login_04	User should visit the site and first registration first.	Must registration first	Login the site	Successfully login the site	Passed	17-09-19

Test Case Name: Check User Donate System

TABLE 5.2: TEST CASE OF CHECK USER DONATE SYSTEM

Test Case Id	Test Case Description	Pre-Condition	Expected Output	Actual Output	Result	Tested On
1. Display the Application_01	First, open The desired browser	Experiment at Web browsers,Tab,Mobile devices's browser	To show the pages effectively	Page showed effectively	Passed	17-09-19
2. User Registration Test_o2	User visit and if he wants to registration	User must visit the website first	User want to registration	User Successfully registration	Passed	17-09-19
3.See_Donate_Now_Button_03	User visit and if he wants to donate	User must registration first	User want to donate	Successfully see reach donation option	Passed	17-09-19
4.Submit_Donate_now_option_o4	User should visit the site and first registration and submit donate options	Must registration first	Want to be a donor	Successfully donate food	Passed	17-09-19

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

Food associated degraded waste has been a rising world drawback for the past few years. With accelerated economic process and increasing production, waste are a matter of grave concern conjointly in Asian nation sooner or later.

The final outcome of this project is to resolve food rotten or waste drawback and conjointly offer this to hungry or starving folks. On the side, there's an internet site that might facilitate to form an affiliation between those organizations that have further food which can waste and people folks that aren't obtaining enough food. Then on the backend,

Awareness is that the best thanks to cut back waste, therefore please contemplate these methods and share these concepts along with your family and friends in order that we are able to all do one thing positive for the surroundings and our health.

6.2 Limitations

Our application has some constraints. We are going to conquer this constraint within the future. A number of the most limitations:

- Only developed for web-site.
- A few highlights ought to be incorporated, as an example, expansions and gadgets.

6.3 Future Scopes

- Our website data needs more storage in future, so we will include this with bigger database frameworks, for example, Oracle Database or Microsoft SQL Server.
- We will include more additional features to make it more dynamic to satisfy larger organizations and make this site trusted by them Ed.

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