

# **A Database Mini Project Report**

**On**

**“E-Annapurna”**

Submitted to the

Savitribai Phule Pune University

In partial fulfillment for the award of the Degree of

Bachelor of Engineering

In

Information Technology

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Dnyaneshwar Bhand

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## **ABSTRACT**

In India, many people still sleep without food even though Extra food is thrown away in nearby function or hotels, because they do not have any medium to share their remaining food to needy people. According to reports, around 195.9 million people are undernourished in India.

We provide a platform where people can share their remaining food to people who need it. Our system is divided into two parts. First part we created a website from where the various types of users such as donors, volunteers, sponsors and food requesters. Second part is the control panel where admin/Employees of NGO can easily analysis the Data, Manage Volunteers.

## INTRODUCTION

The **E Annapurna** is a volunteer based organization that works to get surplus food from restaurants to the less fortunate sections of society in cities across India.

The organization functions on and propagates the basic ideology of self-sustained communities across the city i.e. each locality/community within the city will contribute towards providing food to the needy through its local volunteers and restaurants.

The traditional the food distributed to the needy is sourced from restaurants, which regularly provide surplus or freshly cooked food on a goodwill basis.

Our System provides both Website and Admin Panel for the E Annapurna. The Websites showcase the work of the organization to attract volunteers, Sponsors and donors. Also we get the information of those who are in need of food through the website.

The second part of the system is Admin Panel. It is used to Manage and analyze the NGO. It provides in-depth report with graphs donations, volunteers, sponsors and requests of food. It enables the NGO Admin to allocate volunteers to the specific consumer and analyze their report.

## OVERVIEW

This report discusses the result of the work done in the development of “E-Annapurna” on “JSP” Front-end Platform and “MySQL” as back-end Platform.

At the development of an application JSP provides a good connecting facility between all pages, also the back-end MySQL is most important to save all the data related to the application.

## BACKGROUND AND MOTIVATION

The definition of our problem lies in manual system and a fully automated system.

**Manual system:** In the manual system, there are three disadvantages:

1. Manual system consumes more amount of time in terms of task allocation to volunteers
2. Volunteer management is week
3. NGO Data not fully managed

**Technical system:** With the advent of latest technology if we do not update our system then with huge amount of increasing requests from consumers, existing system fails to fulfill their request i.e. manual system will take more amount of time. The technical system will fulfill each and every request in a short amount of time so that consumers will get their food on the proper time. This system with technology is very fast, Accurate, user-friendly and reliable.

## **OBJECTIVES**

1. To provide a system that can be remotely accessed through the internet.
2. To implement real-time communication between volunteers.
3. To overcome the issue of miscommunication that occurs in physical interactions between volunteers and NGO.
4. To provide an easy, and time-saving platform to consumers.

## **METHODOLOGY**

To implement the above goals, the following methodology needs to be followed:

1. Proper commendations.
2. Proper validations.
3. Go through the created schedule.
4. Proper development of a project by following SDLC.
5. Proper division of tasks between project group members.
6. Proper integration of divided tasks.
7. Proper testing for all modules individually and combined testing after integration.
8. Specifying the Application and various components of the Architecture.
9. Specifying the bindings between the tasks and the resources either manually or by the design
10. Tools.
11. Specifying the port interconnections between the resources.

## **SCOPE**

In India, many people don't get daily food for living. Whereas more amount of food is wasted through functions, weddings, schools and all. We have developed a system to help such needy people to provide them food from these functions.

People who wish to donate their leftover food contact us via our website. We store their details with us. When someone requests for food, we check available food and same areas as sponsors and allocates that much amount of food to them.

Common people get involved in our system by becoming volunteers. They register themselves as per their available days. Our system checks availability of them and allocates tasks to collect and deliver food according to their suitable time.

Another part of our project allows an NGO to have the following features:-

- NGO can allocate specific volunteers to specific requests based on areas.
- NGO can check the monthly performance of volunteers, donors, sponsors and consumers.
- NGO can download overall current report of NGO.



## REQUIREMENTS

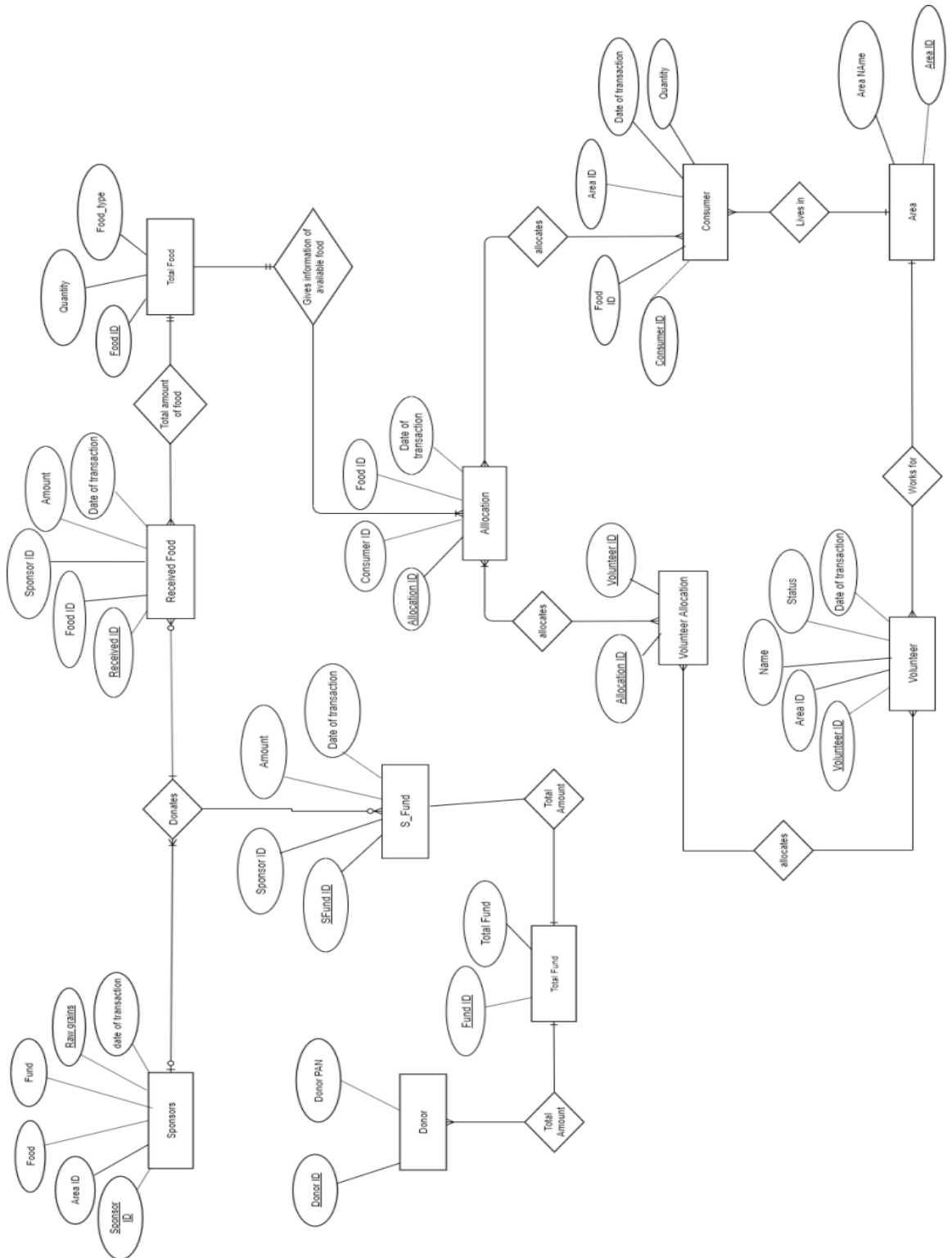
### ☐ Software requirements:

- Glassfish server 4.1
- Java 8
- MySQL Server
- Bootstrap/css/JQuery
- Any Operating System
- Any web browser on user side for accessing the internet.

### ☐ Hardware requirements (For Server):

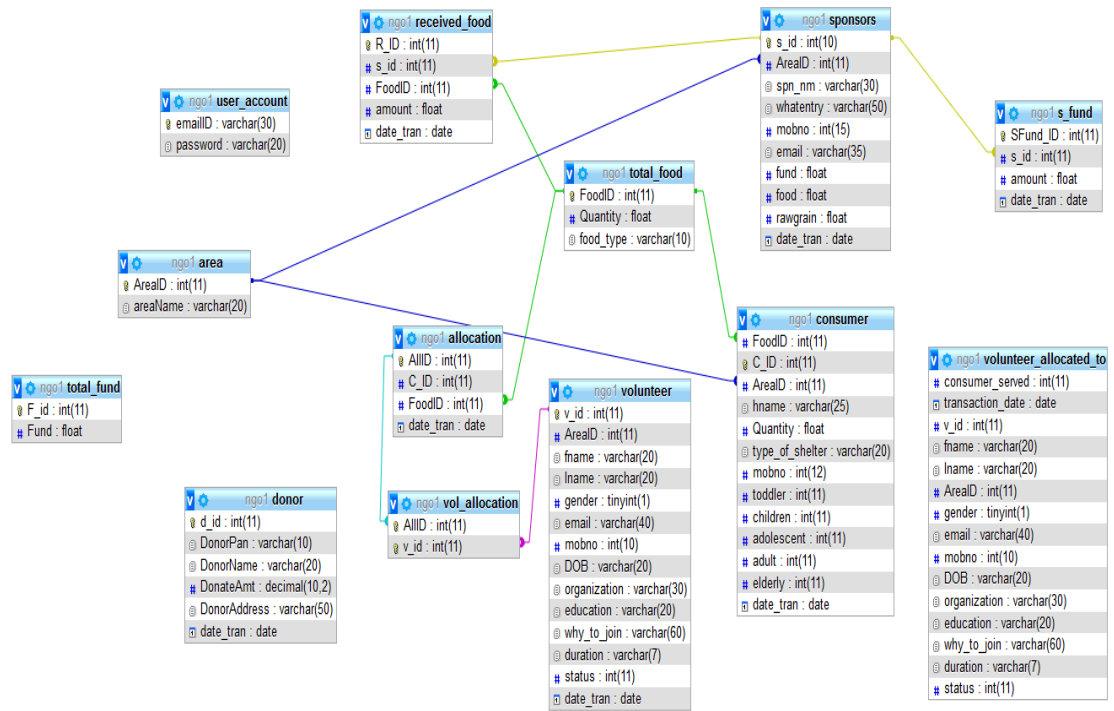
- Storage:
  - 2GB(Minimum)
  - 5GB(Recommended)
- Ram:
  - 1GB(Minimum)
  - 2GB(Recommended)

## E-R DIAGRAM



**Fig. 1.1: E-R Diagram of E Annapurna**

## SCHEMA DIAGRAM



**Fig. 1.2: Schema Diagram of E Annapurna**

## RELATIONAL DATABASE DESIGN

### Tables:

#### 1) Login:

(Email ID, password)

<u>Email ID</u>	Password
-----------------	----------

#### 2) Donor:

(Donor ID, DonorPAN, Donor name, Donate Amount, Donor Address, Date of transaction)

<u>ID</u>	DonorPAN	Donor name	Donate Amt	Donor Address	Date of transaction
-----------	----------	------------	------------	---------------	---------------------

#### 3) Consumer:

(ConsumerID, FoodID, AreaID, Name, Quantity, Type\_of\_shelter, Date of transaction)

CID	Food ID	Area ID	Name	Qty	Type of shelter	Date of transaction
-----	---------	---------	------	-----	-----------------	---------------------

#### 4) Area:

(AreaID, Area\_name)

Area ID	Area name
---------	-----------

#### 5) Allocation:

(AllocationID, ConsumerID, FoodID, Date\_of\_transaction)

Allocation ID	Consumer ID	Food ID	Date of transaction
---------------	-------------	---------	---------------------

#### 6) Received food:

(Received food ID, SponsorID, FoodID, Amount, Date\_of\_transaction)

Received food ID	Sponsor ID	Food ID	Amount	Date of transaction
------------------	------------	---------	--------	---------------------

#### 7) Sponsor:

(SID, Area, Sponsor, name, Fund, Food, raw grain, Date of transaction )

<u>SID</u>	Area	Sponsor name	Fund	Food	raw grain	Date of transaction
------------	------	--------------	------	------	-----------	---------------------

**8] Total Food:**

(Food ID, Food Type, Quantity)

<u>Food ID</u>	Food Type	Quantity
----------------	-----------	----------

**9] Total Fund:**

(Fund ID, Total Fund)

<u>Fund ID</u>	Total Fund
----------------	------------

**10] Volunteer:**

(VolunteerID, Area , Name, EmailID, Status, Date of transaction)

<u>VolunteerID</u>	Area	Name	EmailID	Status	Date_of_transaction
--------------------	------	------	---------	--------	---------------------

**11] Volunteer Allocation :**

(Allocantion ID, Volunteer ID)

<u>Allocantion ID</u>	Volunteer ID
-----------------------	--------------

## DATABASE NORMALIZATION

### **1. First Normal Form:**

The relation is in 1NF if it has no repeating groups. All tables have no repeating groups so they are in 1NF.

#### **1] Login:**

(Email ID, password)

<u>Email ID</u>	Password
-----------------	----------

#### **2] Donor:**

(DonorID, DonorPAN, Donor name, Donate Amount, Donor Address, Date of transaction)

<u>ID</u>	DonorPAN	Donor name	Donate Amt	Donor Address	Date of transaction
-----------	----------	------------	------------	---------------	---------------------

#### **3] Consumer:**

(ConsumerID, FoodID, AreaID, Name, Quantity, Type\_of\_shelter, Date of transaction)

<u>CID</u>	Food ID	Area	Name	Quantity	Type of shelter	Date of transaction
------------	---------	------	------	----------	-----------------	---------------------

#### **4] Allocation:**

(AllocationID, ConsumerID, FoodID, Date\_of\_transaction)

<u>Allocation ID</u>	Consumer ID	Food ID	Volunteer ID	Date of transaction
----------------------	-------------	---------	--------------	---------------------

#### **5] Received food:**

(Received food ID, SponsorID, FoodID, Amount, Date\_of\_transaction)

<u>Received food ID</u>	Sponsor ID	Food ID	Amount	Date of transaction
-------------------------	------------	---------	--------	---------------------

#### **6] Sponsor:**

(SID, Area, Sponsor, name, Fund, Food, raw grain, Date of transaction)

<u>SID</u>	Area	Sponsor name	Fund	Food	raw grain	Date of transaction
------------	------	--------------	------	------	-----------	---------------------

**7] Sponsor fund:**

(SFund ID, Sponsor ID, amount, Date of transaction)

<u>SFund ID</u>	Sponsor ID	amount	Date of transaction
-----------------	------------	--------	---------------------

**8] Total Food:**

(Food ID, Food Type, Quantity)

<u>Food ID</u>	Food Type	Quantity
----------------	-----------	----------

**9] Total Fund:**

(Food ID, Total Fund)

<u>Fund ID</u>	Total Fund
----------------	------------

**10] Volunteer:**

(VolunteerID, Area , Name, EmailID, Status, Date of transaction)

<u>VolunteerID</u>	Area	Name	EmailID	Status	Date_of_transaction
--------------------	------	------	---------	--------	---------------------

**2. Second Normal Form**

A relation is said to be in second normal form if it is already in first normal form and it has no partial dependency

The absence of partial dependency in all relations in database take them into 2NF without any modification

**1] Login:**

(Email ID, password)

<u>Email ID</u>	Password
-----------------	----------

**2] Donor:**

(DonorID, DonorPAN, Donor name, Donate Amount, Donor Address, Date of transaction)

<u>ID</u>	DonorPAN	Donor name	Donate Amt	Donor Address	Date of transaction
-----------	----------	------------	------------	---------------	---------------------

### 3] Consumer:

(ConsumerID, FoodID, AreaID, Name, Quantity, Type\_of\_shelter, Date of transaction)

<u>CID</u>	Food ID	Area ID	Name	Qty	Type of shelter	Date of transaction
------------	---------	---------	------	-----	-----------------	---------------------

### 4] Area:

(AreaID, Area\_name)

<u>Area ID</u>	Area name
----------------	-----------

### 5] Allocation:

(AllocationID, ConsumerID, FoodID, Volunteer ID ,Date\_of\_transaction)

<u>Allocation ID</u>	Consumer ID	Food ID	Volunteer ID	Date of transaction
----------------------	-------------	---------	--------------	---------------------

### 6] Received food:

(Received\_food\_ID, SponsorID, FoodID, Amount, Date\_of\_transaction)

<u>Received food ID</u>	Sponsor ID	Food ID	Amount	Date of transaction
-------------------------	------------	---------	--------	---------------------

### 7] Sponsor:

(SID, Area, Sponsor, name, Fund, Food, raw grain, Date of transaction)

<u>SID</u>	Area	Sponsor name	Fund	Food	raw grain	Date of transaction
------------	------	--------------	------	------	-----------	---------------------

### 8] Sponsor fund:

(SFund ID, Sponsor ID, amount, Date of transaction)

<u>SFund ID</u>	Sponsor ID	amount	Date of transaction
-----------------	------------	--------	---------------------

### 9] Total Food:

(Food ID, Food Type, Quantity)

<u>Food ID</u>	Food Type	Quantity
----------------	-----------	----------



### 10] Total Fund:

(Food ID, Total Fund)

<u>Fund ID</u>	Total Fund
----------------	------------

### 11] Volunteer:

(VolunteerID, Area , Name, EmailID, Status, Date of transaction)

<u>VolunteerID</u>	Area	Name	EmailID	Status	Date_of_transaction
--------------------	------	------	---------	--------	---------------------

### 3. Third Normal Form:

A relation is said to be in third normal form if it is already in 1<sup>st</sup> and 2<sup>nd</sup> NF and has no transitive dependency.

#### Tables:

##### 1] Login:

(Email ID, password)

<u>Email ID</u>	Password
-----------------	----------

**2] Donor:** In Donor table, all the non-primary key attributes are dependent on primary key attribute and there is no transitive dependency.

(DonorID, DonorPAN, Donor name, Donate Amount, Donor Address, Date of transaction)

<u>ID</u>	DonorPAN	Donor name	Donate Amt	Donor Address	Date of transaction
-----------	----------	------------	------------	---------------	---------------------

##### 3] Consumer:

(ConsumerID, FoodID, AreaID, Name, Quantity, Type\_of\_shelter, Date of transaction)

<u>CID</u>	Food ID	Area ID	Name	Qty	Type of shelter	Date of transaction
------------	---------	---------	------	-----	-----------------	---------------------

##### 4] Area:

(AreaID, Area\_name)

<u>Area ID</u>	Area name
----------------	-----------

**5] Allocation:**

(AllocationID, ConsumerID, FoodID, Date\_of\_transaction)

<u>Allocation ID</u>	Consumer ID	Food ID	Date of transaction
----------------------	-------------	---------	---------------------

**6] Received food:**

(Received\_food\_ID, SponsorID, FoodID, Amount, Date\_of\_transaction)

<u>Received food ID</u>	Sponsor ID	Food ID	Amount	Date_of_transaction
-------------------------	------------	---------	--------	---------------------

**7] Sponsor :**

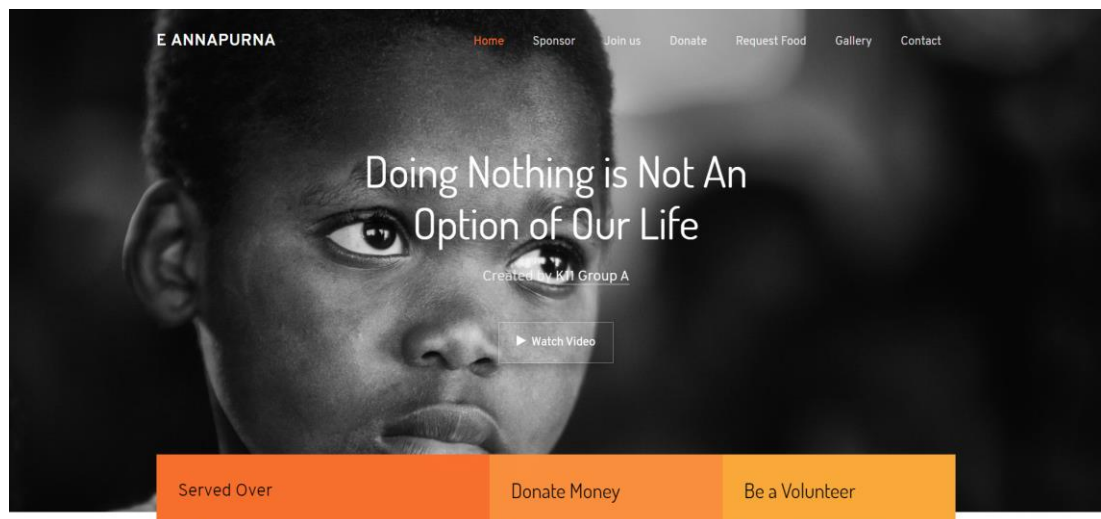
Sponsor ID	Area ID	Sponsor name	Company name	Fund	Food	Rawgrain	Date of transaction
------------	---------	--------------	--------------	------	------	----------	---------------------

## GRAPHICAL USER INTERFACE

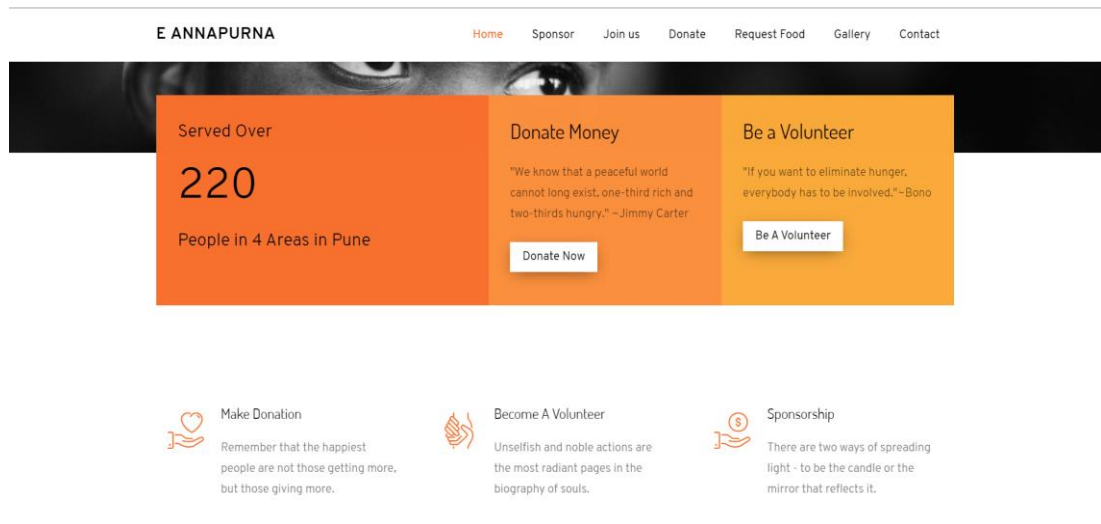
The application is very user friendly and uses a GUI interface implemented in PHP and HTML to Communicate with the user. Various features are self – explanatory. Forms are easy to fill in and components can be added, removed and updated very easily through a Single dialog box. The application includes tool-tip hints to give a brief description of the particular input Field.

List boxes are used to display all the components at once so that user can see all the components of a Particular type at once. One can just select the component and modify and remove the component (based on the access control of the person).

### Snapshots of the Web Site:



**Fig. 2.1: Home**



**Fig. 2.2: Home**

**Fig. 2.3: Request food-1**

E ANNAPURNA
HomeSponsorJoin usDonateRequest FoodGalleryContact

Request Food

Name of Hunger Area

Area

Type of shelter

Contact No

What type food you accept ?

**Fig. 2.4: Request food-2**

E ANNAPURNA
HomeSponsorJoin usDonateRequest FoodGalleryContact

First Name

Last Name

Email

Contact No

Birth Date

School / College / Company / Organization

**Fig. 2.5: Volunteer-1**

**E ANNAPURNA**      Home    Sponsor    **Join us**    Donate    Request Food    Gallery    Contact

Highest Education

Your Answer

Area

katraj

Why do you want to Join us?

Write something..

How much Time could you spend a Week ?

☐ Monday  
 ☐ Tuesday  
 ☐ Wednesday  
 ☐ Thursday  
 ☐ Friday  
 ☐ Saturday  
 ☐ Sunday

**Fig. 2.6: Volunteer-2**

**E ANNAPURNA**      Home    Sponsor    Join us    Donate    **Request Food**    Gallery    Contact

**Request Food**

Name of Hunger Area

Your name..

Area

katraj

Type of shelter

Orphanage

Contact No

Your Contact no.

What type food you accept ?

**Fig. 2.7: Request-1**

E ANNAPURNA

[Home](#) [Sponsor](#) [Join us](#) [Donate](#) [Request Food](#) [Gallery](#) [Contact](#)

## Request Food

Name of Hunger Area

Area

Type of shelter

Contact No

What type food you accept ?

© 2020

**Fig. 2.8: Request-2**

Note : Try to mention things relevant to issue to get fast respond.

Email

Your Name

Your Massege


Write something..

**Fig. 2.9: Contact**

---

**E ANNAPURNA**

HomeSponsorJoin usDonateRequest FoodGalleryContact



Donation Amount

Your Name

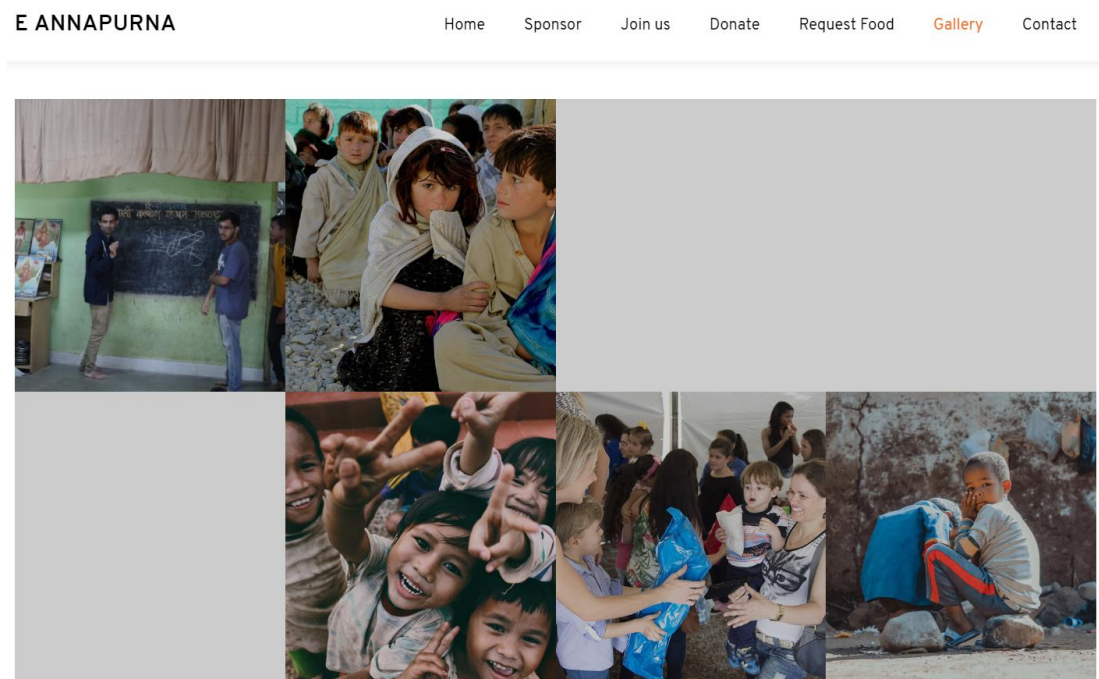
PAN number

Residential Address

Submit

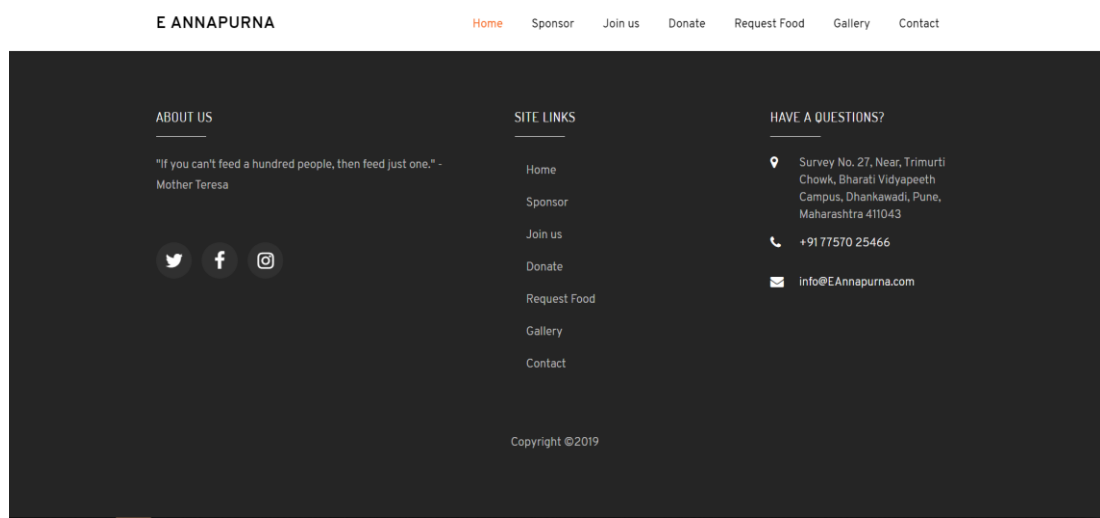
---

**fig.2.10: Donation**



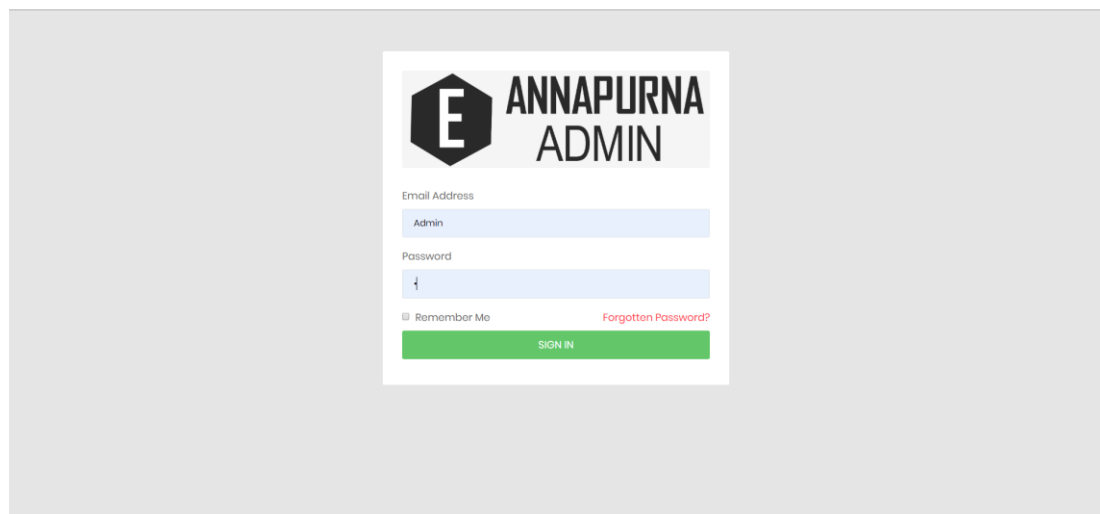
**Fig. 2.11: Gallery**



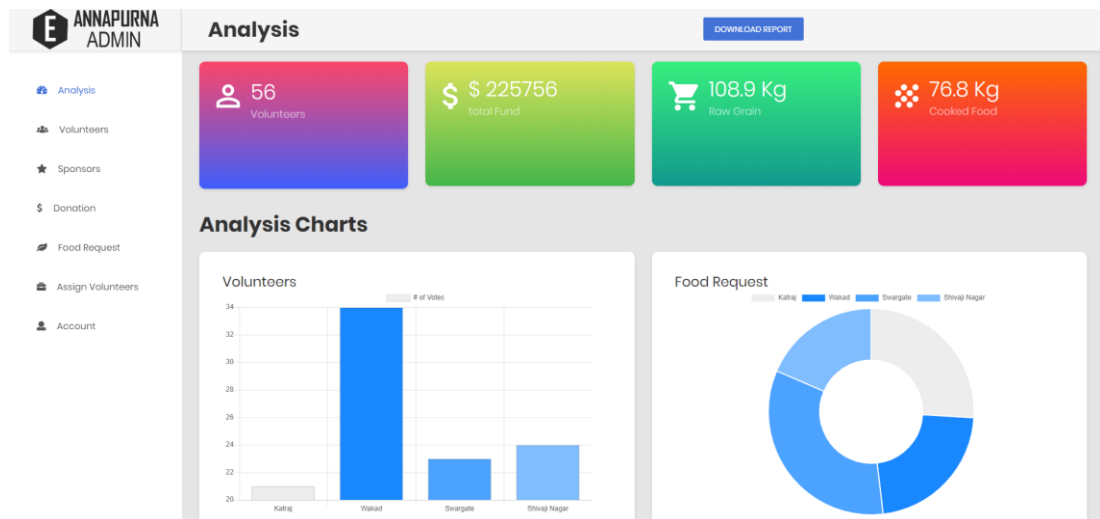


**Fig. 2.12: Footer**

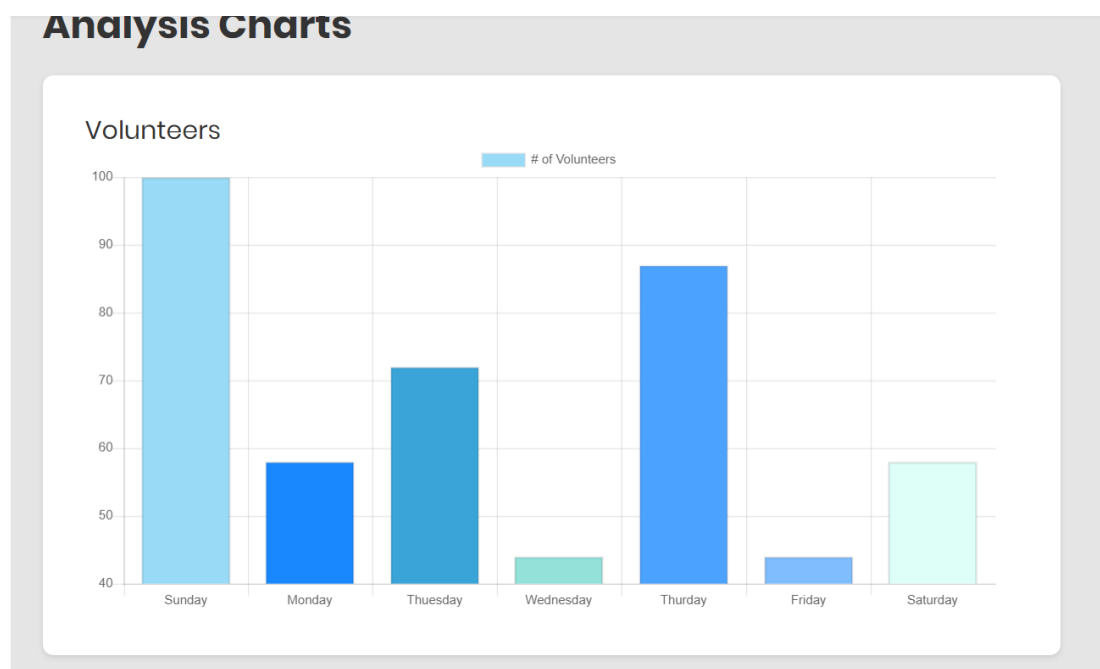
## Snapshots of the Admin Site:



**Fig. 2.13: Login**

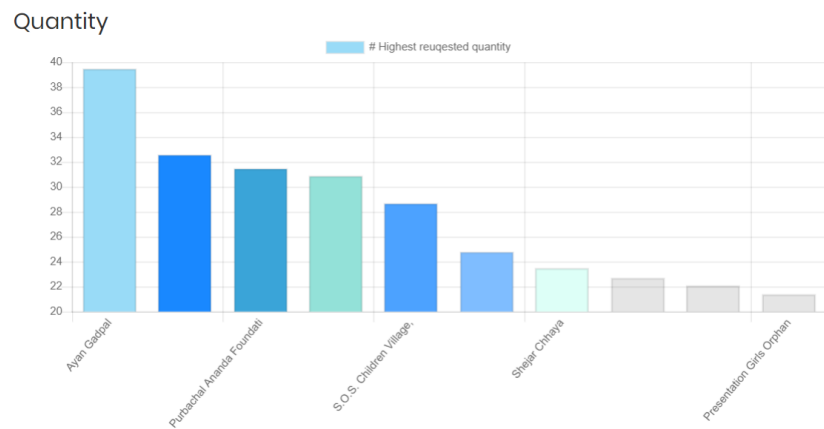


**Fig. 2.14: Overall Report**



**Fig. 2.15: Analysis 1**

## Analysis Charts



**Fig. 2.16: Analysis 2**

## Select Consumers

Choose Consumer

CONSUMER NAME	CONTACT	TYPE OF SHELTER	AREA	TYPE OF FOOD	QUANTITY	
Home of Love	2147483647	orphange	1	1	18 Kg	<a href="#">ASSIGN VOLUNTEERS</a>
Aadarana	2147483647	old age home	2	2	20 Kg	<a href="#">ASSIGN VOLUNTEERS</a>
anand public school	2147483647	education institue	1	1	15.6 Kg	<a href="#">ASSIGN VOLUNTEERS</a>
Janahita Vatsalya Project	2147483647	night shelter home	3	2	13.2 Kg	<a href="#">ASSIGN VOLUNTEERS</a>
Shejar Chhaya	2147483647	nursery	3	2	23.5 Kg	<a href="#">ASSIGN VOLUNTEERS</a>
New Dawn Trust	2147483647	other	1	2	18.9 Kg	<a href="#">ASSIGN VOLUNTEERS</a>
Purbachal Ananda Foundati	2147483647	orphange	3	1	31.5 Kg	<a href="#">ASSIGN VOLUNTEERS</a>

## Assign Volunteers

[ASSIGN VOLUNTEERS](#)

**Consumer Name : Home of Love**

Select Volunteers

SELECT	NAME	EMAIL	PHONE	AREA	ORGANIZATION	EDUCATION
<input type="checkbox"/>	Sheetal	Sheetal	2147483647	1	PPS	M.B.B.S
<input type="checkbox"/>	Shreya	Shreya	2147483647	1	IIT BOMBAY	C.A
<input type="checkbox"/>	Shruti	Shruti	2147483647	1	IIT BOMBAY	B.E
<input type="checkbox"/>	Shubha	Shubha	2147483647	1	SIGHGAD	B.E
<input type="checkbox"/>	Shweta	Shweta	2147483647	1	LTi	B.COM
<input type="checkbox"/>	Sushma	Sushma	2147483647	1	SE2	B.A.M.S
<input type="checkbox"/>	Swati	Swati	2147483647	1	PUBMATIC	DIPLOMA
<input type="checkbox"/>	Aashu	Aashu	2147483647	1	FINSTA	C.A

## Assign Report

**Success** The Volunteers successfully got Assigned to the Consumer. [Select Another Consumer](#) ×

### Report

**Consumer Name : Home of Love**

**Volunteer Assigned**  
1. Sheetal Agrawal  
2. Shreya Amble

**Fig. 2.17: Allocation**

ANNA PURNA ADMIN		Donation		
Analysis				
Volunteers				
Sponsors				
Donation				
Food Request				
Assign Volunteers				
Account				

Name	PAN	Address	Amount
Nishant	AGCH458212	pune	100.00
Suryanarayana	CHUF6943BH	nagar	150.00
ayan	CHFJ3598AB	solapur	670.00
Babu	VKDI5692CB	jalana	340.00
Balasubramaniam	FKBH5609AS	sangali	900.00
Bhagwati	CJHS5094AS	mumbai	200.00
Bimal	XJHU5692CH	gediya	650.00
Binod	FKOY6934VH	kholapur	200.00
Brijesh	XDNI6753BH	jalgon	350.00
dnyanu	AGCH438212	pune	1000.00
Chandramouli	CHUF8543BH	nagar	200.00

Fig. 2.18: Donation-1

ANNA PURNA ADMIN		Donation		
Analysis				
Volunteers				
Sponsors				
Donation				
Food Request				
Assign Volunteers				
Account				

Top Donation	
Mandeep	1000.00
dnyanu	1000.00
Keshavadasa	1000.00
Harikrishna	1000.00
Balasubramaniam	900.00
Gautam	900.00
Jeona	900.00
Nakusha	900.00
SHARDUL	900.00
Kushal	670.00

Recent Donation	
Modi ji	234.00
Naresh	650.00
Narendran	200.00
Nakusha	900.00
Nachiketa	340.00
NITIN	670.00
Mrinal	150.00
Manpreet	100.00
Mandeep	1000.00
Mandar	350.00

Fig. 2.19: Donation-2

- Analysis
- Volunteers
- Sponsors
- Donation
- Food Request
- Assign Volunteers
- Account

### Home of Love Details

**Name Home of Love Home of Love**

**Quantity 18**

**Type orphanage**

**Contact 2147483647**

- Analysis
- Volunteers
- Sponsors
- Donation
- Food Request
- Assign Volunteers
- Account

### Assign Volunteers to Consumers

Data Table

Area + SUBMIT

CONSUMER NAME	CONTACT	TYPE OF SHELTER	AREA	TYPE OF FOOD	QUANTITY	
Home of Love	2147483647	orphanage	1	1	18	VIEW DATA
Aadarana	2147483647	old age home	2	2	20	VIEW DATA
anand public school	2147483647	education institue	1	1	15.6	VIEW DATA
Janahita Vatsalya Project	2147483647	night shelter home	3	2	13.2	VIEW DATA
Shejar Chhaya	2147483647	nursery	3	2	23.5	VIEW DATA
New Dawn Trust	2147483647	other	1	2	18.9	VIEW DATA

**Fig. 2.20: Food Request**

ANNA PURNA  
ADMIN

Analysis
Volunteers
Sponsors
Donation
Food Request
Assign Volunteers
Account

### Volunteer Details

Data Table

Name
+ SUBMIT

NAME	EMAIL	GENDER	PHONE	AREA	ORGANIZATION	EDUCATION	STATUS	
Sanjana	Sanjana	Male	2147483647	1	PICT	B.E	BUSY	VIEW DATA
Sanskriti	Sanskriti	Male	2147483647	1	COEP	B.A	BUSY	VIEW DATA
Manali	Shachi	Male	2147483647	1	PVG	B.COM	BUSY	VIEW DATA
Shakti	Shakti	Male	2147483647	1	PCCOE	LLB	NOT AVAILABLE	VIEW DATA
Sheetal	Sheetal	Male	2147483647	1	DPS	M.B.B.S	AVAILABLE	

ANNA PURNA  
ADMIN

Analysis
Volunteers
Sponsors
Donation
Food Request
Assign Volunteers
Account

### Sanjana Badami Details

**Name Sanjana Badami**

Join Date 2016-09-17

Email Sanjana@mail.com

Contact 2147483647

Birthday 02-10-1999

Organization PICT

Education B.E

Duration 1100101

Current status 1

Motive A

**SERVICE : 82.6446 %**

Fig. 2.21: Volunteers

## Sponsors

- Analysis
- Volunteers
- Sponsors**
- Donation
- Food Request
- Assign Volunteers
- Account

Data Table

Name

+ SUBMIT

NAME	EMAIL	PHONE	ENTITY TYPE	AREA	FUND	FOOD	ROW GRAIN	VIEW DATA
Mandeep	Mandeep	2147483647	restaurant	1	0	10	0	VIEW DATA
Manpreet	Manpreet	2147483647	hospital	3	10000	0	0	VIEW DATA
Mrinal	Mrinal	2147483647	rwa	2	0	0	20	VIEW DATA
NITIN	NITIN	2147483647	event caterer	3	12000	0	0	VIEW DATA
Nachiketa	Nachiketa	2147483647	factory	1	0	25	0	VIEW DATA
Nakusha	Nakusha	2147483647	hotel	2	0	0	21	VIEW DATA

**Fig. 2.22: Sponsors**



## **FUTURE SCOPE**

- In future, we are developing an android app which will help NGO to track every volunteer who is serving / delivering the food to consumers. It will also display, about how much time volunteer is serving to organization and according to the data, volunteer will get rewarded.
- For future we can advance our system that will provide shortest delivery paths to volunteers using GPS so that they can fulfill each and every request of consumer in short amount of time.
- We will provide NGO, more detailed analysis report for better improvement in system.

## **CONCLUSION**

Thus, this platform helps us to resolve the various problems of respective fields with the help of group members. Anyone may create a group, but the admin retains full control over the group content, along with administrative abilities such as endorsing good answers and viewing more detailed statistics on group activity.

In this system, user also can add the event within the field, so that group members are notified about that event. This platform can also be useful for advertising purpose.

## REFERENCES

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