## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590018, Karnataka, INDIA



# MINI PROJECT REPORT On

## Internal Task Management for NGO

Submitted in partial fulfillment of the requirements for the VII Semester

# Bachelor of Engineering In INFORMATION SCIENCE AND ENGINEERING

## For the Academic year 2020-2021

BY

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#### **CERTIFICATE**

This is to certify that the project work entitled "Internal Task Management for NGO" is a bonafide work carried out by Rahul Mondal, Mohammed Hammaad Mateen and bearing USNs 1PE17IS067, 1PE17IS108 respectively in partial fulfillment of Web mini project (17CSL77) in 7<sup>th</sup> semester of Degree of Bachelors (Bachelors of Engineering) in Information Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2020-2021.

It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the Report. The project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for said degree.

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1. 2.

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**ABSTRACT** 

INTERNAL TASK MANAGEMENT SYSTEM

Internal Task Management System is a database which deals with documenting and managing set

of important activities performed by the members of a non-profit organization. Considering the

NPO to be organized and managed entirely by volunteers. The various internal tasks include

managing volunteers, collecting donations, organizing events, running food drives and managing

funds. The Database facilitates volunteers to add new volunteers with their related information,

update existing volunteer's information and delete volunteers. It also facilitates volunteers to

document the donations collected and distributed with their associated information respectively.

The events organized by the volunteers are tabulated with event summary and feedback received.

The Database can also be used to analyse cash flow of the organisation by facilitating fund

management related details.

**TOOLS USED:** 

HTML, CSS and JAVASCRIPT for the front-end development accompanied with MySQL for the

back-end development with PHP for server side scripting.

**REFERENCES:** 

www.w3schools.com

www.feedingindia.org

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#### INTERNAL TASK MANAGEMENT STSTEM

## **CHAPTER-1**

#### INTRODUCTION

#### 1.1 Introduction

The process of building systems has always been complex with systems becoming larger, the costs and complexities get multiplied. So the need for better methods for developing systems is widely recognized to be effective and the applied model should meet a few basic requirements. Utilizing established methods and techniques like database designs, normalizations and structured programming techniques, system study has been made. Various methodologies have been applied for system study, evolving design documents, data modeling, input screen design and report design.

## 1.1.1 Purpose of the Project

The main aim of developing this system is to provide efficient documentation and management of a set of important activities performed by the members of a non-profit organization named 'FEEDING INDIA'. Considering the NPO to be organized and managed entirely by volunteers. The various internal tasks include managing volunteers, collecting donations, organizing events, running food donation drives and managing funds. The Database facilitates volunteers to add new volunteers with their related information, update existing volunteer's information and delete volunteers.

It also facilitates volunteers to document the donations collected and distributed with their associated information respectively, thereby enabling a hassle free cash flow estimation and auditing. The events organized by the volunteers are tabulated with event summary and feedback received and can also be used to analyse cash flow of the organisation by facilitating fund management related details.

#### **1.1.2** Scope

The main goal of this project is to computerize and standardise the way in which the organisation documents and manages its internal functions. Privacy is key when it comes to the prime functions of the organisation hence our model will have authorised access only to the trusted volunteers (members) of the organisation. Its fund management feature facilitates easy auditing, which I believe every organisation must achieve. The cost of building this software system is zilch, as all the products used for building this system is open source, hence incurs no cost.

#### 1.1.3 Definitions

#### **MySQL**:

MySQL is the most popular Open Source Relational SQL Database Management System. MySQL is one of the best RDBMS being used for developing various web based software applications. MySQL has become the leading database choice for web-based applications, used by high profile web properties including Facebook, Twitter, YouTube, etc.

#### HTML:

Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript it forms a triad of cornerstone technologies for the World Wide Web. Web browsers receive HTML documents from a web server or from local storage and render them into multimedia web pages.

#### CSS:

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language. CSS is designed primarily to enable the separation of presentation and content, including aspects such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics.

## PHP:

Hypertext Preprocessor is server-side scripting language designed for Web development, and also used as a general-purpose programming language. PHP code may be embedded into HTML code, or it can be used in combination with web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a Common Gateway Interface (CGI) executable or executed on a command-line interface (CLI) and can be used to implement standalone graphical applications.

#### 1.3 Existing System

The existing system is entirely of manual entry and auditing, with the help of Microsoft Excel Sheets.

#### 1.4 Proposed system

The proposed "Internal Task Management System" helps the organisation to keep track of their loyal volunteers, their funds, the events they organised and the food donation drives they conducted all in one place. Thus facilitating efficient management rather than maintaining exclusive excel sheets for each task, which is very cumbersome in reality.

We hope to build this stand-alone system with the help of HTML, CSS and PHP by placing our database under MySql backend. Administrators just have to enter the valid information in the dialog boxes provided and in a few seconds they are ready to process information from the table fields, which could be later given for auditing or analysis.

#### **1.5.**Statement of the Problem

- Our stand-alone system should be loved by the organisation, for its ease of incorporating information into itself and beautifully displaying it as well.
- It should be able to easily display all its loyal donors for efficient fundraising.
- It should be user friendly and should only allow authorised entities to access it.

## **CHAPTER - 2**

## SOFTWARE REQUIREMENT SPECIFICATION

## 2.1 SOFTWARE REQUIREMENT SPECIFICATION

A Software Requirements Specification (SRS) is a complete description of the behavior of the system to be developed. It includes the functional and nonfunctional requirement for the software to be developed. The functional requirements includes what the software should do and non-functional requirements include the constraint on the design or implementation. Requirements must be measurable, testable, related to identified needs or opportunities, and defined to a level of detail sufficient for the system design.

Software requirement specification will state what the software will do. When the software has to be directly perceived by its users – either human users or other software systems. The common understanding between the user and the developer is captured in the requirements document. The writing of software requirement specification reduces development effort, as careful review of the document can reveal omissions, misunderstandings, and inconsistencies early in the development cycle when these problems are easier to correct. The SRS discusses the product but not the project that developed it; hence the SRS serves as a basis for later enhancement of the finished product. The SRS may need to be altered, but it does provide a foundation for continued production evaluation.

## **2.2 Operating Environment**

Our proposed system will work on any host computer that has the ability to run the XAMPP server (especially, Apache Web Server and MySQL Database Server) and is able to run the latest version of the Google Chrome or Firefox Browser.

2.2.1 Hardware Requirements

Hardware Description	
Processor	Intel(R)Core <sup>TM</sup> i3 or above
RAM	4.00 GB
Hard Disk	400 GB

**Table 2.1: Hardware Requirements** 

## 2.2.2 Software Requirements

Software	Description		
Operating System Windows 8 or Ubuntu 16.04 and			
Web Hosting	Apache		
Programming Language	HTML, CSS, JS & PHP		
Database	MySQL		

**Table 2.2: Software Requirements** 

## **2.3 Functional Requirements**

These are the statements of services which, system should provide, how the system should react for particular inputs and how the system should behave in particular situations. They are:-

- System should be accessible from anywhere in the world.
- Should provide easy user interfaces.
- Users should have separate accounts with associated functionalities.
- System should provide an interface for the admins to add details and edit it.
- System should be user friendly.
- System should only allow authorised entities to access it.

2.4 Non-Functional Requirements

Accessibility: Accessibility can be viewed as the "ability to access" and benefit from a system.

Help text for the modules is provided wherever necessary, which guides the user into being able

to access the functionalities of the modules.

**Availability:** These are the statements of services which, system should provide, how the system

should react for particular inputs and how the system should behave in particular situations. The

modules are available to the users at all times.

Compatibility: As the system requires just the latest Google Chrome Browser or Mozilla

Firefox, so it can run on any operating system.

**Performance:** Since the web application does not require any critical procedure, the system

performance only depends on the server's capacity to serve the client/clients.

**Reliability:** Reliability is the ability of the system to perform and maintain its functions in

routine, hostile and unexpected circumstances.

**Portability:** Since the app just requires latest Chrome browser or Mozilla Firefox so portability

is not an issue

**Security:** Since the stand-alone web app can be accessed only by the authorized

users/volunteers, moreover each of the user types has a different level of access, the system is

secure.

2.5 User Characteristics

Admins can add or edit volunteer information.

☐ Admins can delete volunteers.

☐ Admins can add or edit event information.

## INTERNAL TASK MANAGEMENT SYSTEM SPECIFICATION

## SOFTWARE REQUIREMENT

	Admins can add donations of food/money collected.
П	Admins can add funds debited/credited.

## **CHAPTER - 3**

## **DESIGN**

## 3.1 Entity-Relationship Diagram

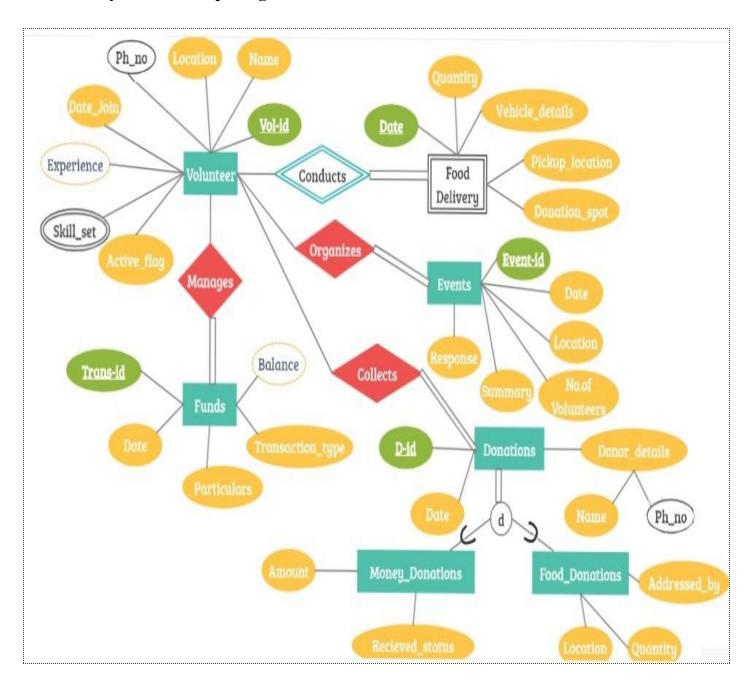


Fig 3.1 ER Diagram

## 3.2 Schema Diagram

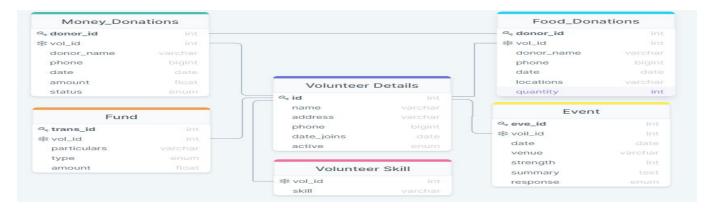


Fig 3.2-Schema Diagram

## 3.3 UML Diagrams

## **Activity Diagram**

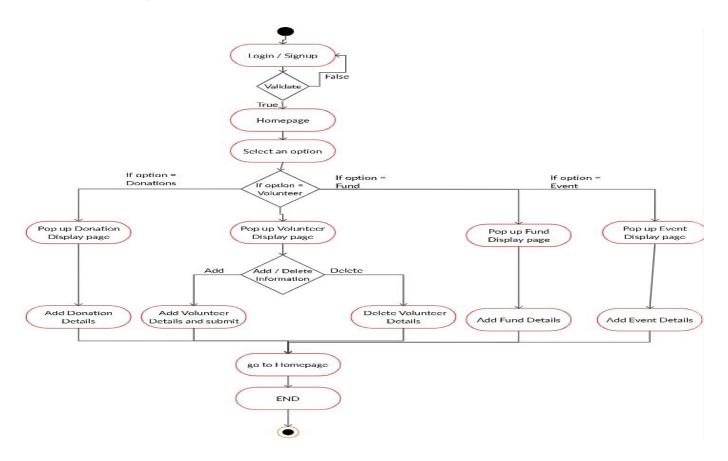


Fig 3.3.1-Activity Diagram

## **Use Case Diagram**

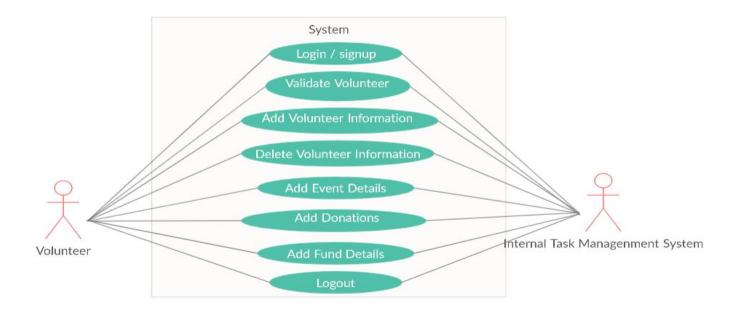


Fig 3.3.2-Use case Diagram

## 3.4 Data flow Diagrams

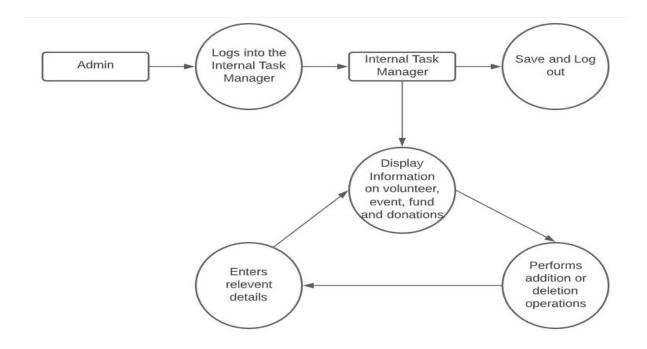


Fig 3.4-Data flow Diagram

## **CHAPTER - 4**

## **IMPLEMENTATION**

#### 4.1 Implementation

The term implementation has different meanings, ranging from the conversion of a basic application to a compatible replacement of a computer system. Implementation is used here to mean the process of converting a new or revised system into an operational one.

During the implementation stage we convert the detailed code in a programming language. If the implementation stage is not carefully planned and controlled, it can cause great chaos. Thus it can be considered to be the most crucial stage in achieving the user confidence that the new system will work effectively.

## 4.2 Programming Language Selections

## 4.2.1 PHP and MySQL

We have selected PHP (HyperText Preprocessor) for the implementation from the server side alongside with MySQL for backend database operations. The advantages of using php are as follows:

- Easy: This server-side scripting language is extremely easy to learn, as compared to other languages. Also, if you are familiar with the syntax of C or Perl, you will learn PHP easily and quickly; all thanks to easy to understand syntax!
- Control: While other languages need long scripts, PHP can do the same work in a few lines of code; having the maximum control over the websites. Also, whenever you want to make changes, you can edit it easily.
- Cost efficient: As you know, PHP is open source, it is free of cost. You need not buy expensive software for it. Your website will be developed at minimal cost.
- Efficient: As you know you can enhance the performance of the website built in PHP, as it is scalable when writing the code as well as reliable too when you need to deal with a lot of web pages.

## 4.2.2 HTML, CSS & JS

For the Client Side or the Front End Web Page we have used HTML, JavaScript and CSS as the programming languages. The advantages of using these languages for client side programming are as follows

- The three languages HTML, CSS and JavaScript are widely used and every browser supports HTML language, so you don't need separate software to run these programs.
  - With CSS it is easier to maintain and update, and we can have greater consistency in designs.
  - JavaScript is very fast because it can be run immediately within the client-side browser.
  - JavaScript plays nicely with other languages and can be used in a huge variety of applications.

#### **4.2.3** Server: XAMPP server

- Microsoft SQL Server features configurable error messages, DBMS-based authentication databases, and content negotiation. It is also supported by several graphical user interfaces (GUIs).
- It is auto configured with Microsoft visual studio, so there is an ease of accessing databases and creating reports and views,

## 4.3 Description of tables

1: Table for storing Volunteer Details:

Name	Туре	Null	Default	Extra
Vol_id	int(4)	No	None	
Name	varchar(40)	No	None	
Address	varchar(50)	No	None	
Phno	bigint(20)	Yes	NULL	
Date_join	date	Yes	NULL	
Active	enum('1', '0')	Yes	1	

2: Table for storing Volunteer Skills:

Name	Туре	Null	Default	Extra
Vol_id	int(4)	No	None	
Skill	varchar(25)	No	None	

## 3: <u>Table for calculating Volunteer Experience:</u>

Name	Туре	Null	Default	Extra
Vol_id	int(4)	No	None	
Name	varchar(40)	No	None	
Address	varchar(50)	No	None	
Phno	bigint(20)	Yes	NULL	
Date_join	date	Yes	NULL	
Active	enum('1', '0')	Yes	1	
Experience	bigint(21)	Yes	NULL	

## 4: <u>Table for storing entire Volunteer Details:</u>

Name	Туре	Null	Default	Extra
vol_id	int(4)	No	None	
name	varchar(40)	No	None	
address	varchar(50)	No	None	
phno	bigint(20)	Yes	NULL	
date_join	date	Yes	NULL	

active	enum('1', '0')	Yes	1	
experience	bigint(21)	Yes	NULL	
skill	varchar(25)	No	None	

## 5: <u>Table for storing Event Details:</u>

Name	Туре	Null	Default	Extra
Event_id	int(4)	No	None	
Vol_id	int(4)	Yes	NULL	
Date	date	Yes	NULL	
Venue	varchar(25)	No	None	
No_vol	int(3)	No	None	
Summary	text	Yes		
Response	enum('Awesome', 'Good', 'Average', 'Improvement')	Yes	Good	

## 6: <u>Table for storing Food Donations:</u>

Name	Туре	Null	Default	Extra
D_id	int(4)	No	None	
Donor_name	varchar(45)	No	None	
Phno	bigint(20)	Yes	NULL	
Date	date	Yes	NULL	
Co_loc	varchar(25)	No	None	
Quantity	int(3)	No	None	

## 7: <u>Table for storing Money Donations:</u>

Name	Туре	Null	Default	Extra
D_id	int(4)	No	None	
Donor_name	varchar(45)	No	None	
Phno	bigint(20)	Yes	NULL	
Date	date	Yes	NULL	
Amt	int(3)	No	None	
Rcv_stats	enum('Received', 'Cancelled', 'Pending')	Yes	Pending	

## 7: <u>Table for Fund Management:</u>

Name	Туре	Null	Default	Extra
Trans_id	int(4)	No	None	
Vol_id	int(4)	Yes	NULL	
Particulars	varchar(50)	No	None	
Trans_type	enum('Withdrawal', 'Deposit')	No	None	
Amt	int(10)	No	None	

## 9: View for storing Balance:

Name	Type	Attributes	Null	Default	Extra
Balance	decimal(32,0)		Yes	NULL	

#### 4.4 Code Snippet

A sample PHP code to insert data into Money Donations Table:

```
<?php
    $D id = filter input(INPUT POST, 'D id');
   $Date = filter input(INPUT POST, 'Date');
   $Donor name = filter input(INPUT POST, 'Donor name');
   $Phno = filter input(INPUT POST, 'Phno');
    $Amt = filter input(INPUT POST, 'Amt');
    $Rcv stats = filter input(INPUT POST, 'Rcv stats');
    $conn = new mysqli ("localhost", "root", "p", "mp 1");
                  die('Connect Error ('. mysqli connect errno() .') '.
mysqli connect error());
   else{
           $sql = "INSERT INTO m dons (D id, Date, Donor name, Phno, Amt,
Rcv stats)
              values ('$D id', '$Date', '$Donor name', '$Phno', '$Amt',
'$Rcv stats')";
       if ($conn->query($sql)){
           echo "New record is inserted successfully";}
       else{
           echo "Error: ". $sql ."
            ". $conn->error;}
        $conn->close();
```

Fig 4.4- PHP Code snippet

# CHAPTER - 5 RESULT SNAPSHOTS



Fig 5.1- Home Page



Fig 5.2- Admin Login Modal

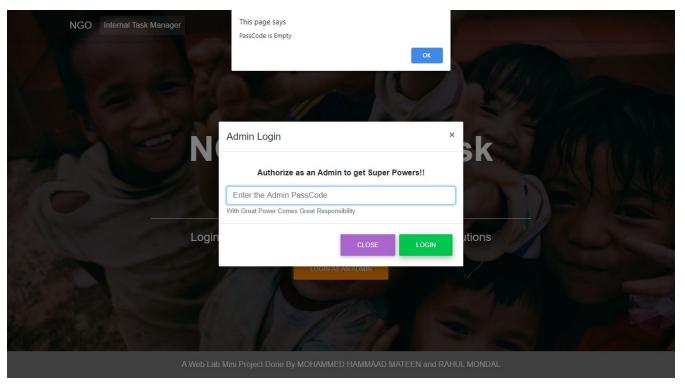


Fig 5.3- Admin Login Modal Passcode Validations

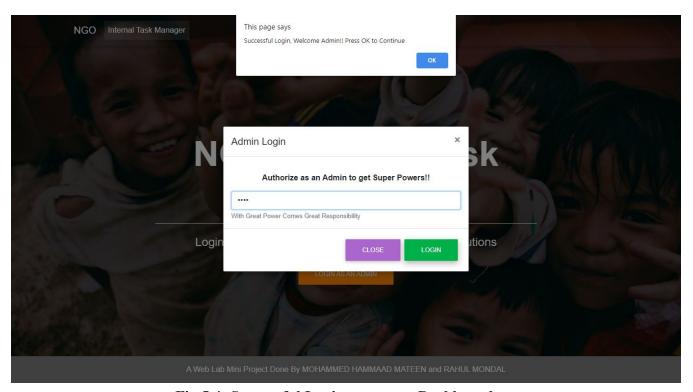


Fig 5.4- Successful Logins to access Dashboard

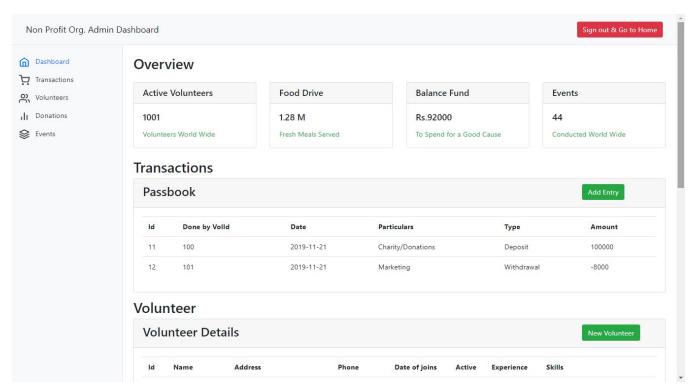


Fig 5.5- Admin Dashboard Scroll 1

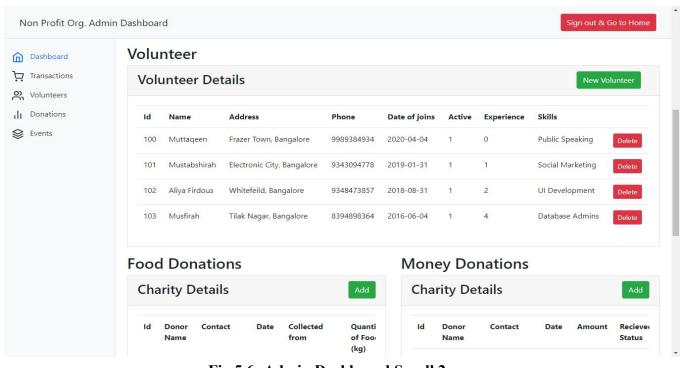


Fig 5.6- Admin Dashboard Scroll 2

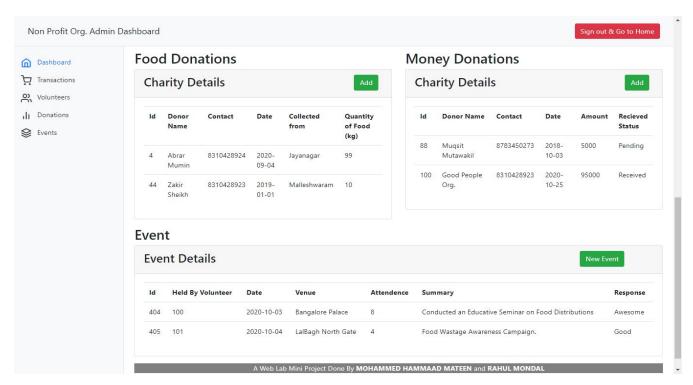


Fig 5.7- Admin Dashboard Scroll 3

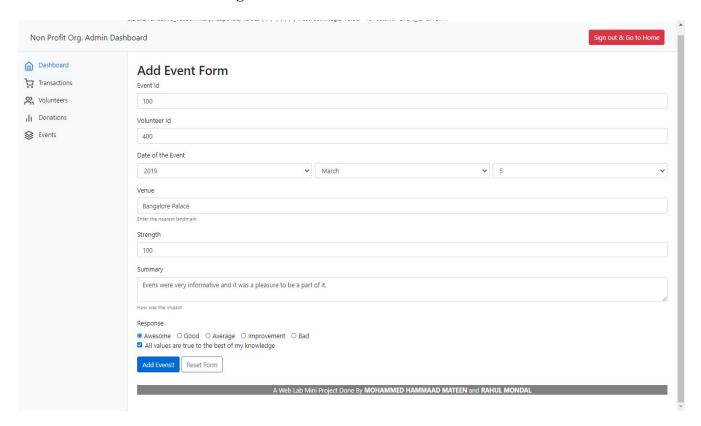


Fig 5.8- Evens Addition Form

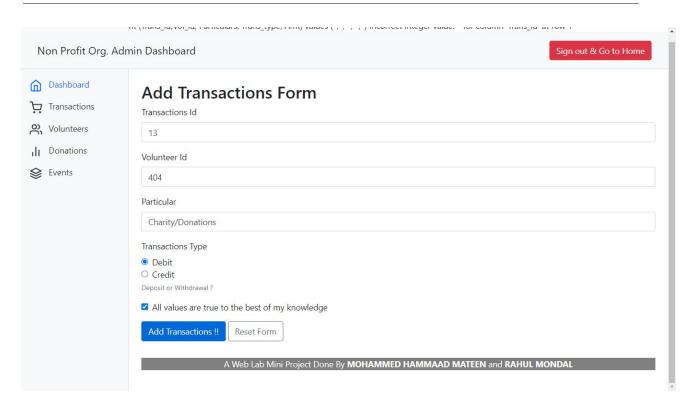


Fig 5.9- Transactions Addition Form

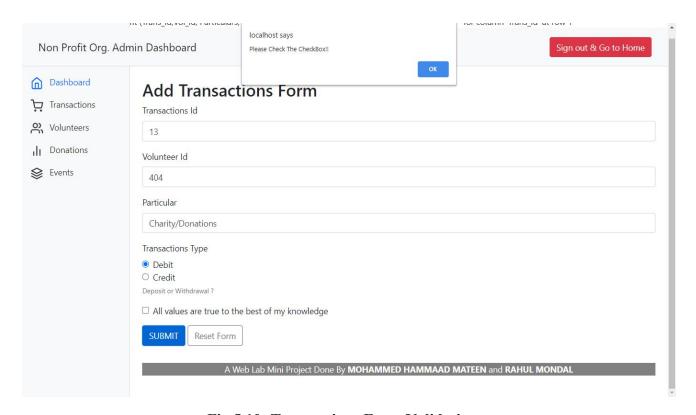


Fig 5.10- Transactions Form Validations

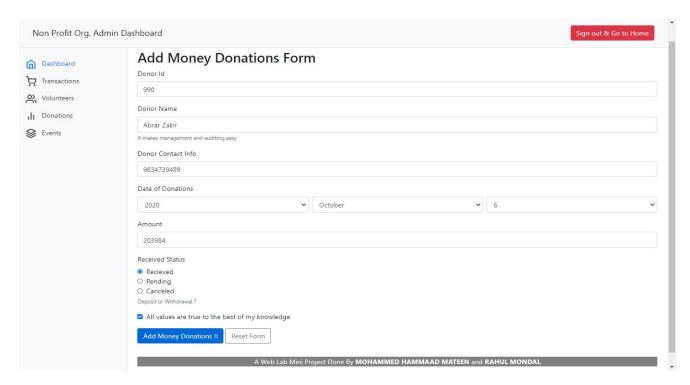


Fig 5.11- Money Donations Addition Form

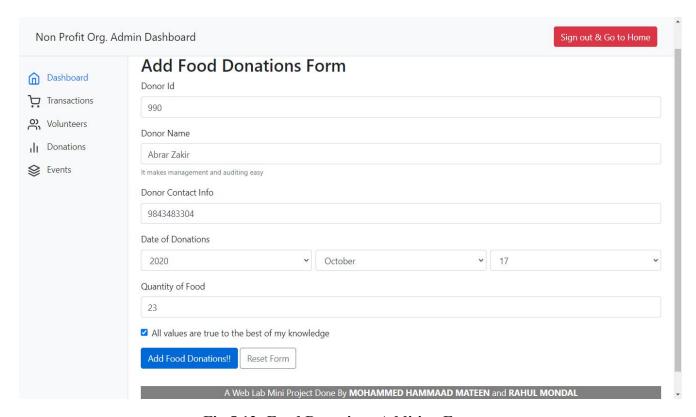


Fig 5.12- Food Donations Addition Form

## Chapter 6

## **Conclusions**

#### 6.1 Conclusions

We have successfully implemented the proposed model. The project is designed for the volunteers of the organisation to manage their internal tasks. In this project, the system that can be used to view the details, update, delete and analyze the daily chores of the NPO. Deployment of our system will certainly help them the most.

#### **6.2** Limitations of the project

- Our database has only come into existence this year, hence it does not have correct updated values.
- If a volunteer submits an unwanted text into the review box then the review is taken without analyzing it.
- The password is not encrypted while storing it in the database, it just stores as it is.

#### **6.3 Future Enhancements**

- We shall add md5 encryption for passwords.
- We shall also add a live tracking feature for food delivery/donation services.
- We shall add video content to enhance user-friendliness.

## REFERENCES

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#### ☐ CSS & BOOTSTRAP

- https://www.w3schools.com/css/default.asp
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## **□** Feeding India

• https://www.feedingindia.org

#### □ PHP

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