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 7th 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.

Signatures:

Project Guide **Prof. Pragya** Asst. Professor, Dept. of ISE PESIT-BSC, Bengaluru	Head Dept of ISE **Dr. Annapurna D** PESIT-BSC, Bengaluru

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2.	

ACKNOWLEDGEMENT

First and foremost we would like to thank Almighty SWT for helping us throughout this amazing web project. We would like to thank the college management and express our sincere gratitude to Dr. Subhash S Kulkarni, Principal of PESIT-BSC for giving us an opportunity to implement this project.

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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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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.

1.2 Existing System

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

1.3 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.

1.4 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™ 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 higher
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: The NGO Admins Dashboard must be easily accessible. This could be achieved by providing help text and cues for modules wherever necessary, which guides the user to access the functionalities of the modules.

Availability: The NGO Admins Dashboard and its relevant data should be available to the users at all times. The data should be regularly backed up/cached to reduce the impact of failure.

Compatibility: The NGO Admins Dashboard can run on any operating system, as it just requires the latest Google Chrome Browser.

Performance: Since the NGO Admins Dashboard does not require any critical procedure, the system performance only depends on the server's capacity to serve the client (NGO Admins).

Portability: Since the NGO Admins Dashboard just requires the 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 NGO Dashboard is secure.

2.5 User Characteristics

- Admins can add or edit volunteer information.
- Admins can delete volunteers.
- Admins can add or edit event information.
- Admins can add donations of food/money collected.
- Admins can add funds debited/credited.

CHAPTER - 3

DESIGN

3.1 Entity-Relationship Diagram

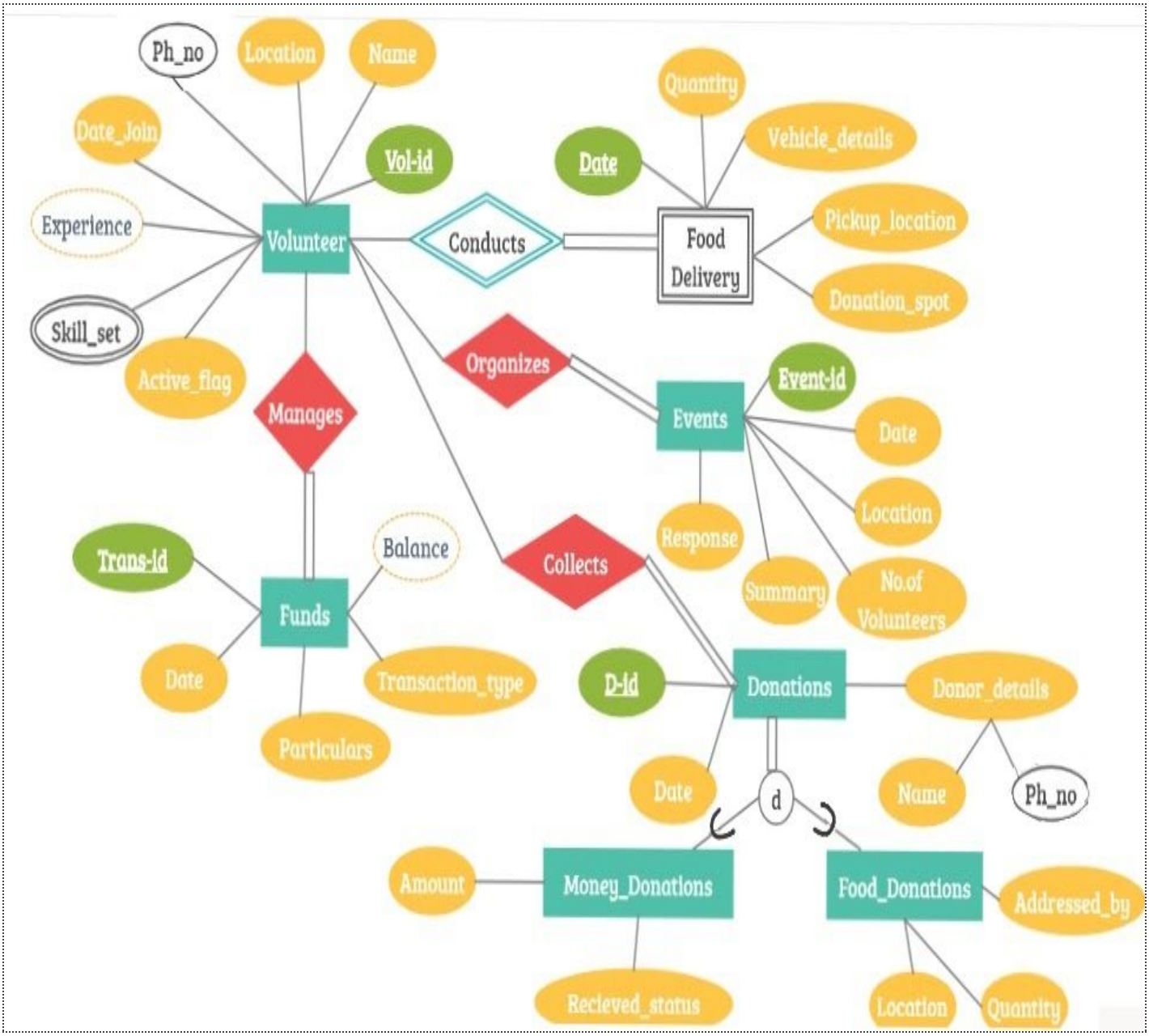

Fig 3.1 ER Diagram

3.2 Schema Diagram

Fig 3.2-Schema Diagram

3.3 UML Diagrams

Activity Diagram

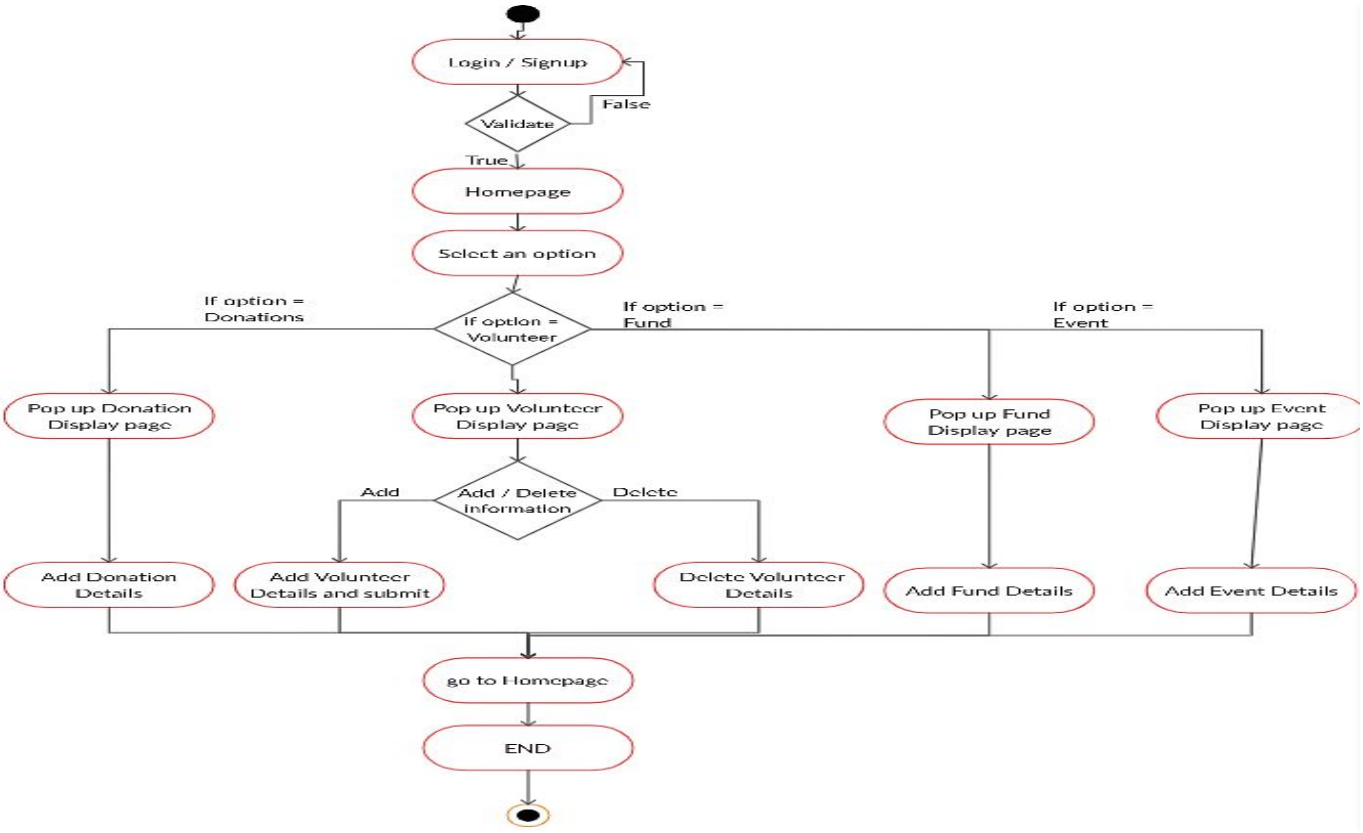

Fig 3.3.1-Activity Diagram

Use Case Diagram

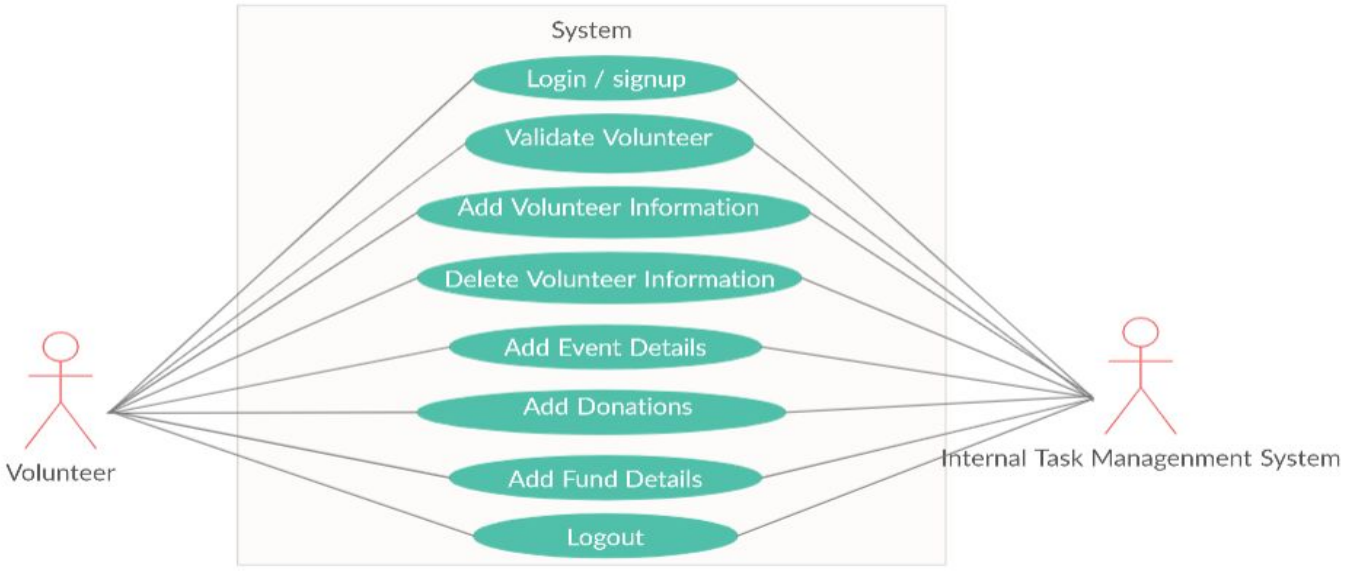

Fig 3.3.2-Use case Diagram

3.4 Data flow Diagrams

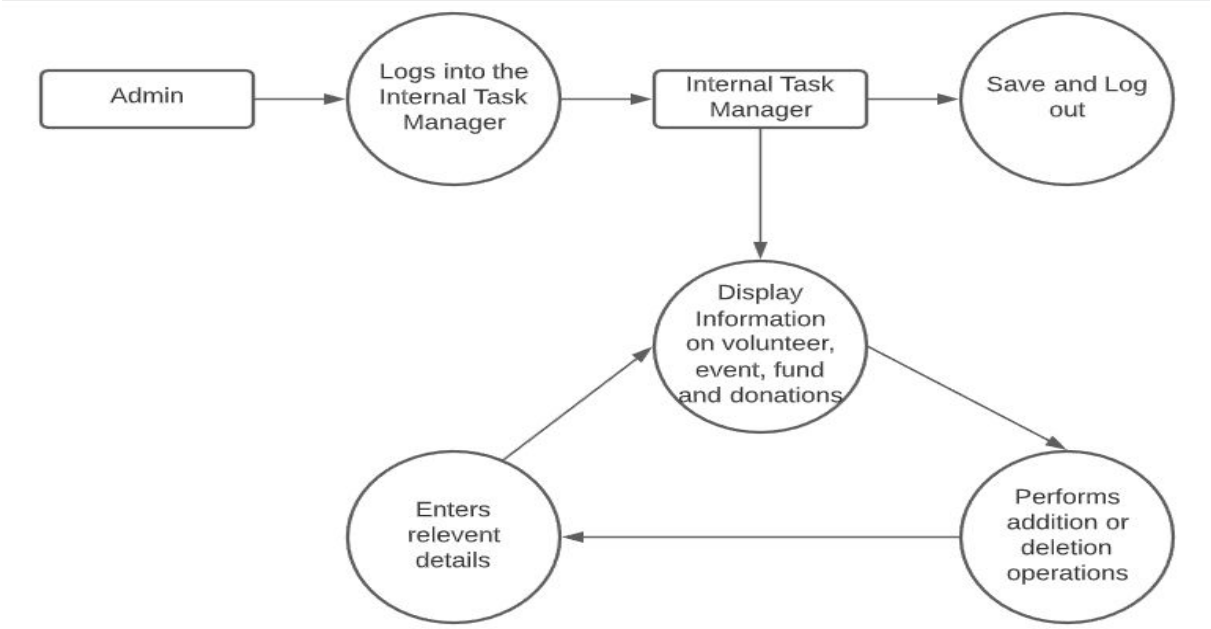

Fig 3.4-Data flow Diagram

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	**Type**	**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	Type	Null	Default	Extra
Vol_id	int(4)	No	*None*	
Skill	varchar(25)	No	*None*	

3: Table for calculating Volunteer Experience:

Name	Type	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: Table for storing entire Volunteer Details:

Name	Type	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: Table for storing Event Details:

Name	Type	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: Table for storing Food Donations:

Name	Type	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: Table for storing Money Donations:

Name	Type	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: Table for Fund Management:

Name	Type	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
    // Extracting Data from the form fields
    $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');
    // Establishing Connections to the database
    $conn = new mysqli ("localhost", "root", "p", "mp_1");
    // Error if database can't be accessed
    if (mysqli_connect_error()){
                    die('Connect  Error  ('.  mysqli_connect_errno()  .')  '.
mysqli_connect_error());
        }
     // Successful Connections then Insert the data to the Money Donations
table
    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;}
        // Close the access after inserting
        $conn->close();
        }
?>
```

Fig 4.4- PHP Code snippet

CHAPTER - 5

RESULT SNAPSHOTS

Fig 5.1- Home Page

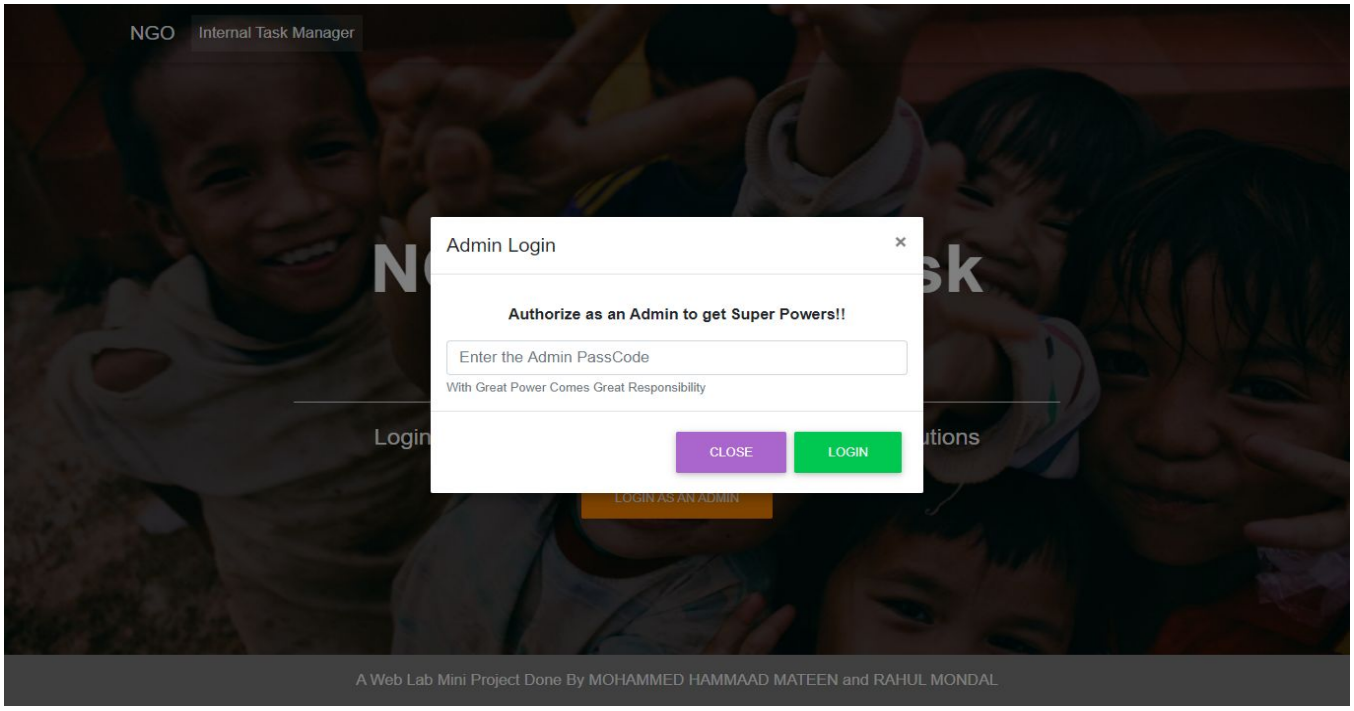

Fig 5.2- Admin Login Modal

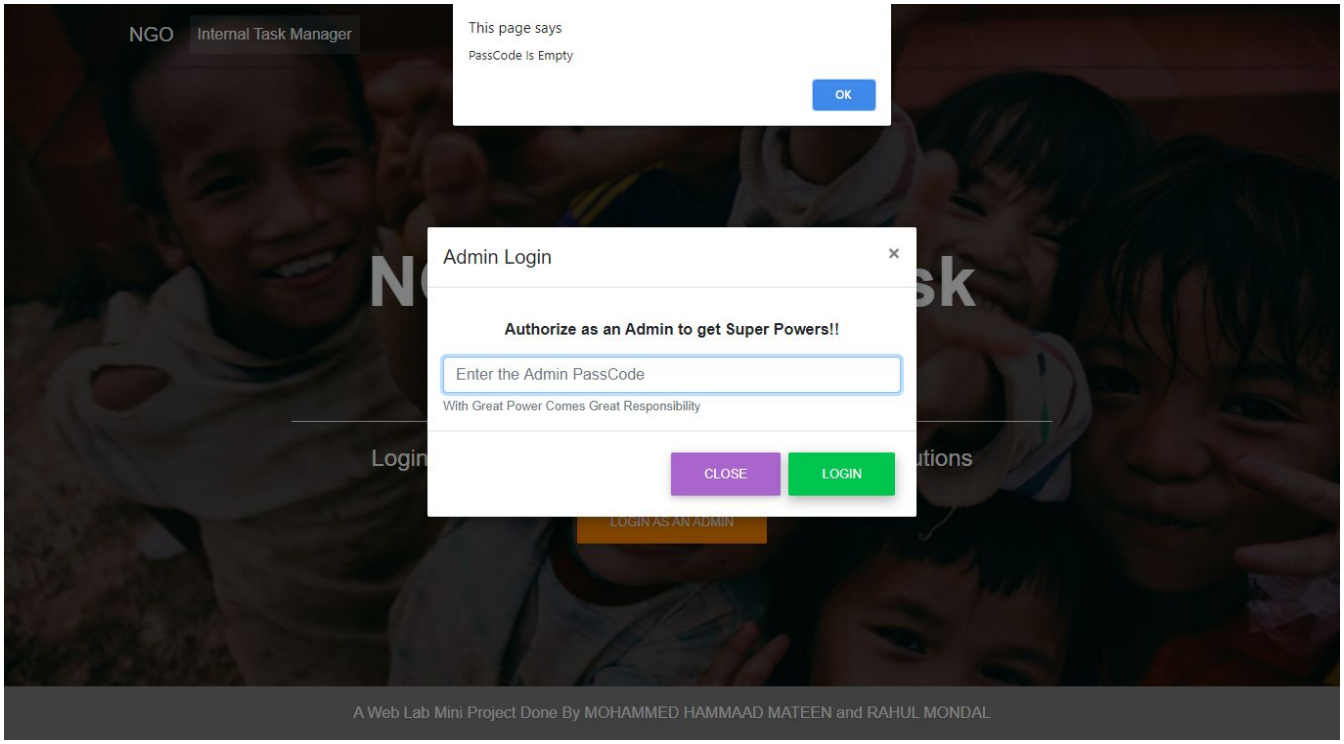

Fig 5.3- Admin Login Modal Passcode Validations

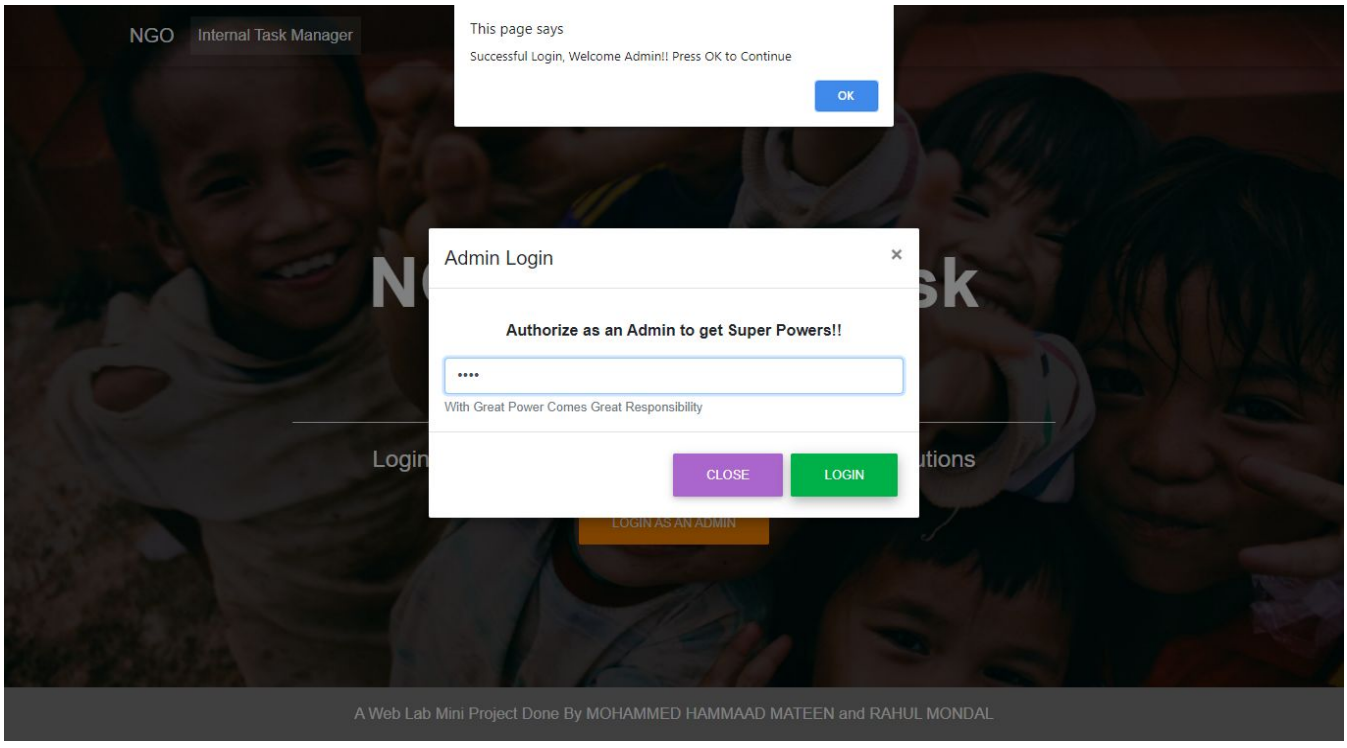

Fig 5.4- Successful Logins to access Dashboard

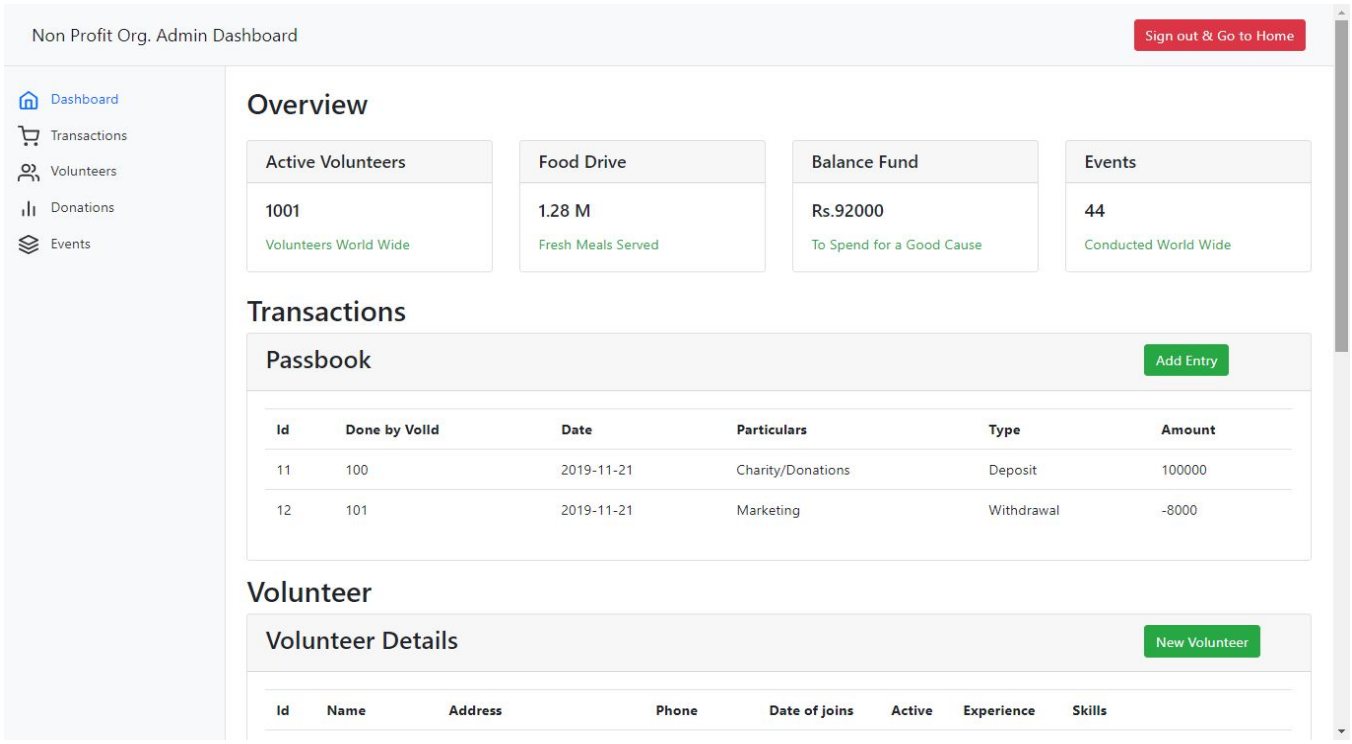

Fig 5.5- Admin Dashboard Scroll 1

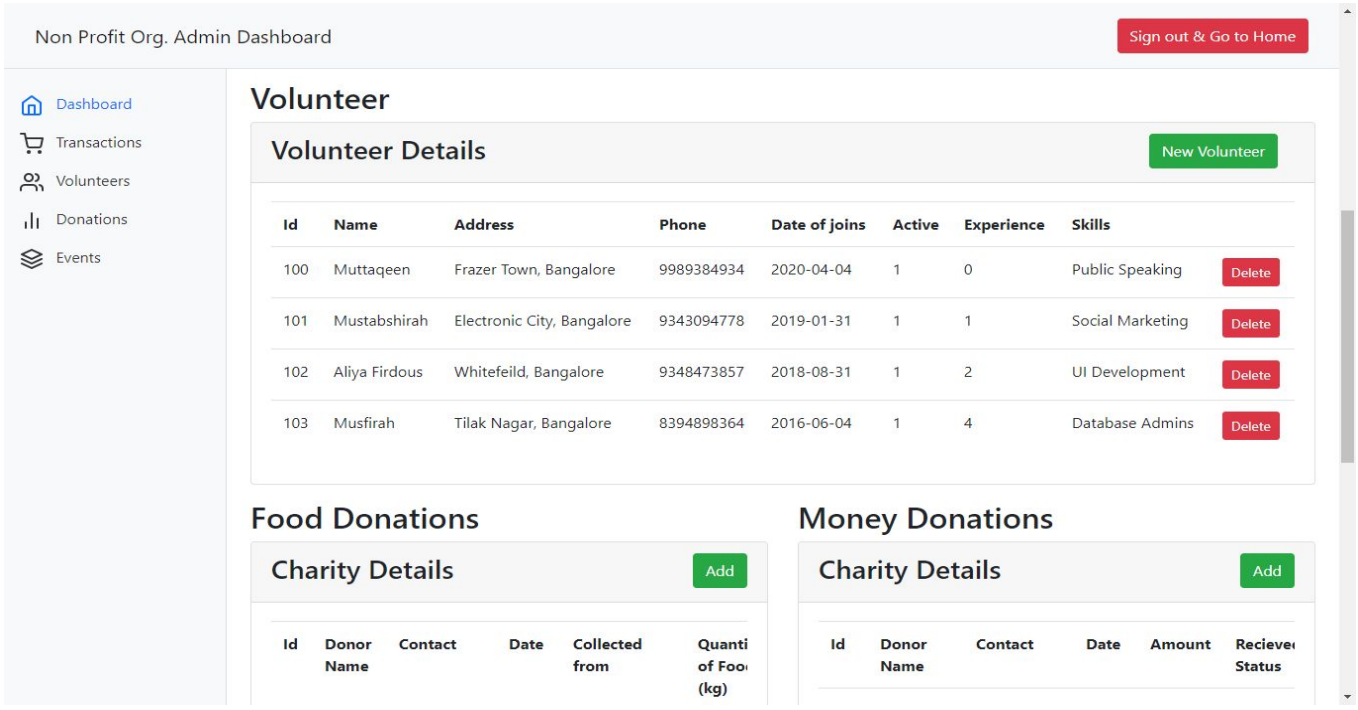

Fig 5.6- Admin Dashboard Scroll 2

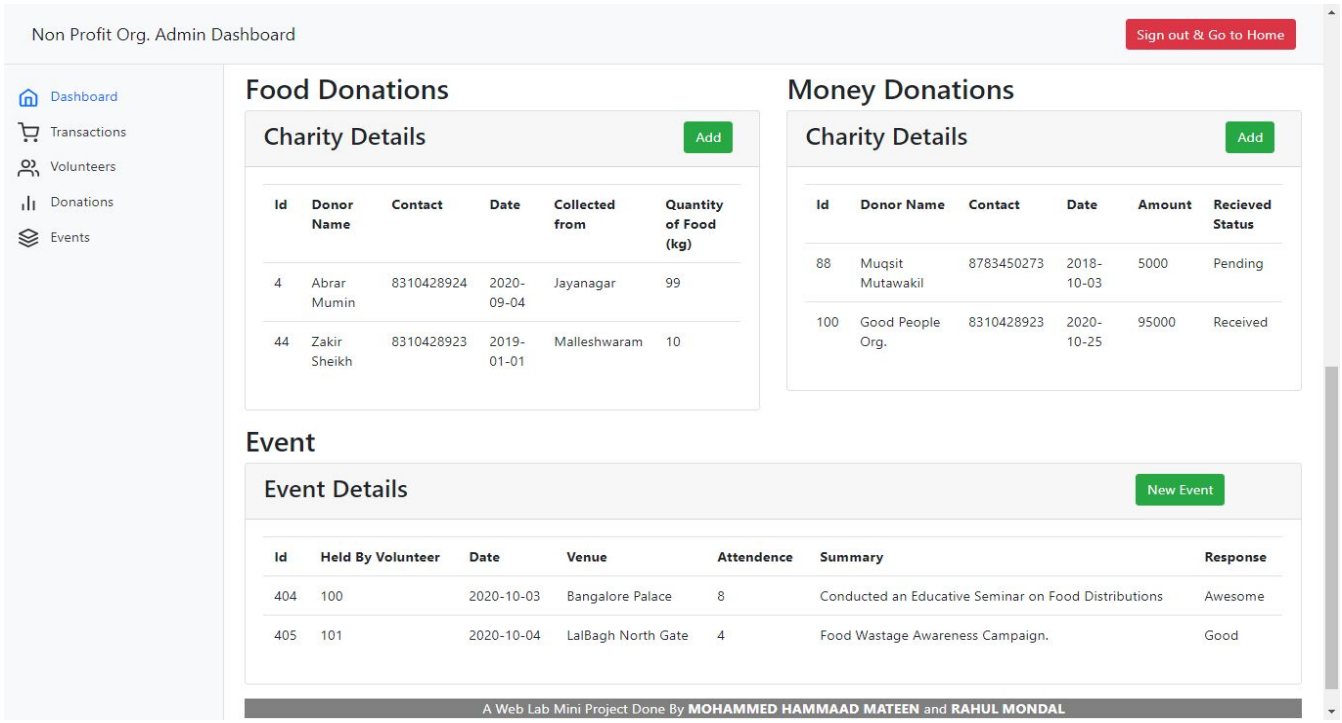

Fig 5.7- Admin Dashboard Scroll 3

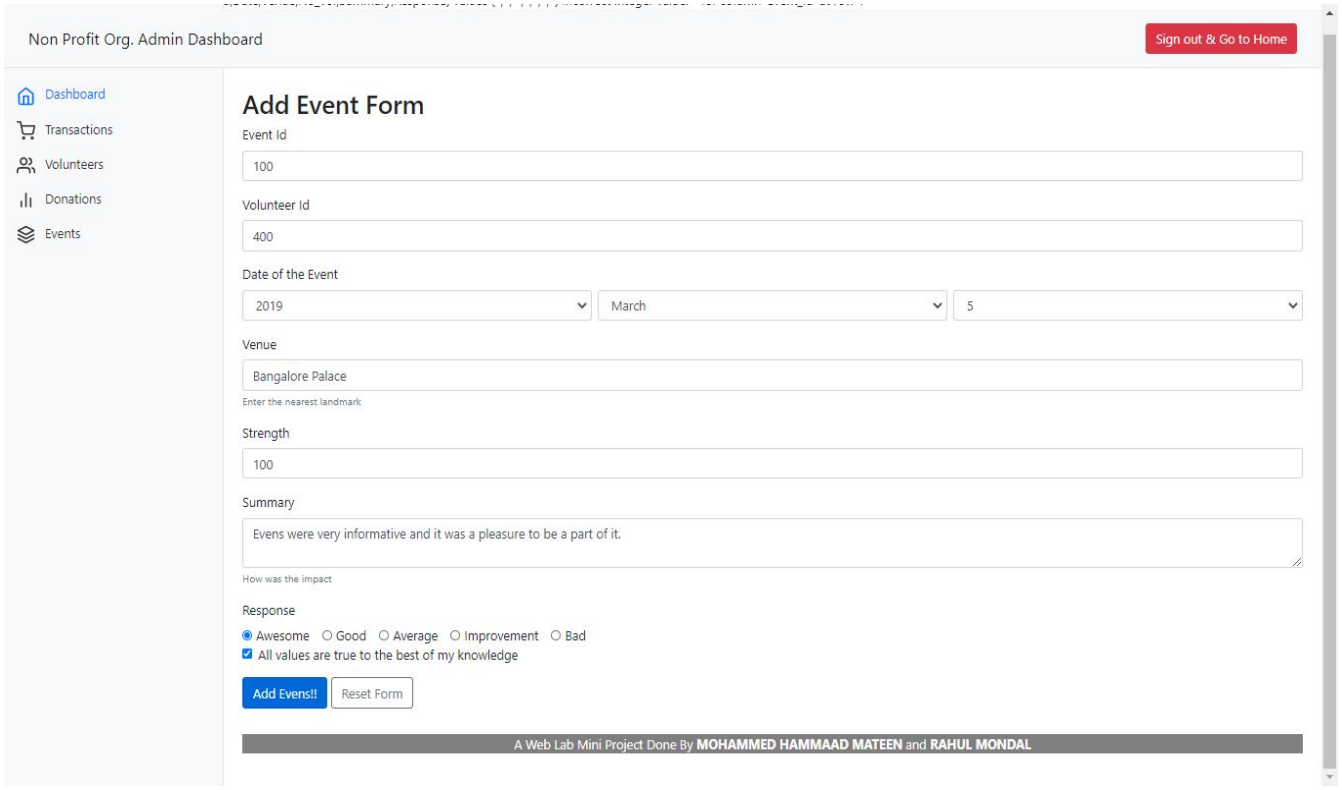

Fig 5.8- Evens Addition Form

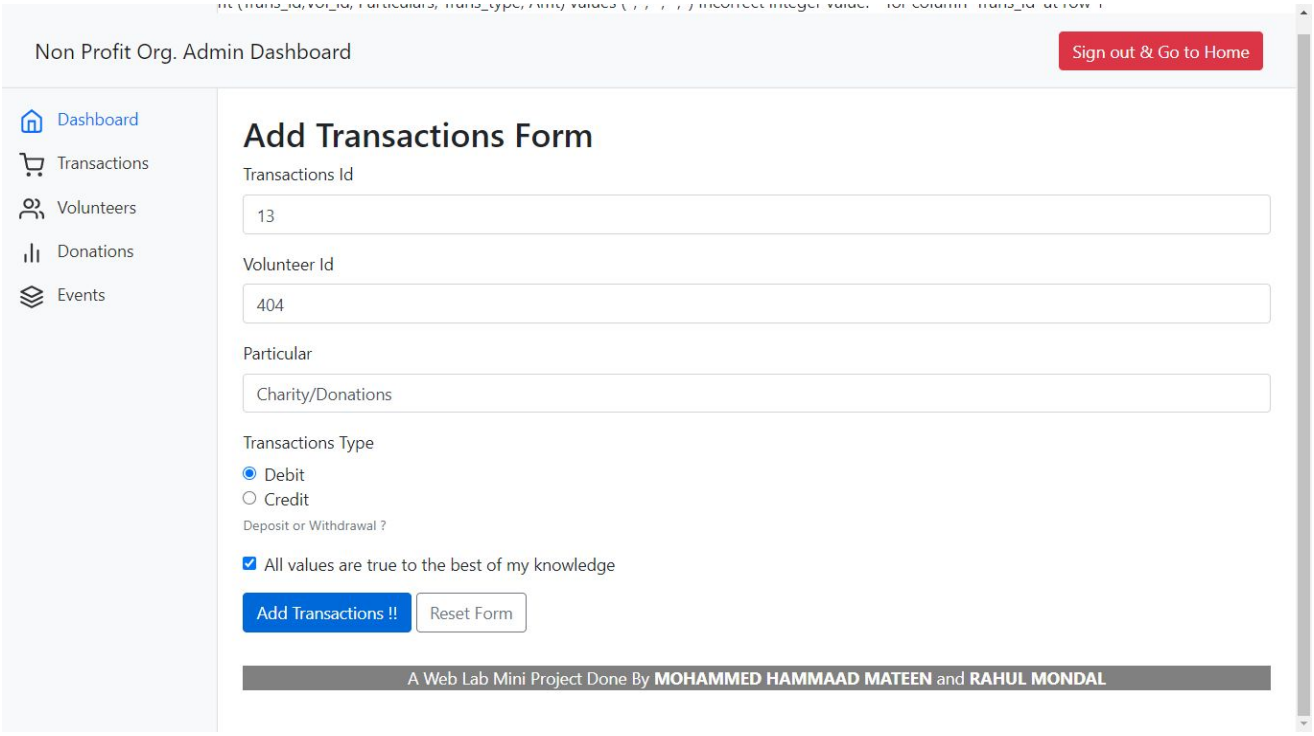

Fig 5.9- Transactions Addition Form

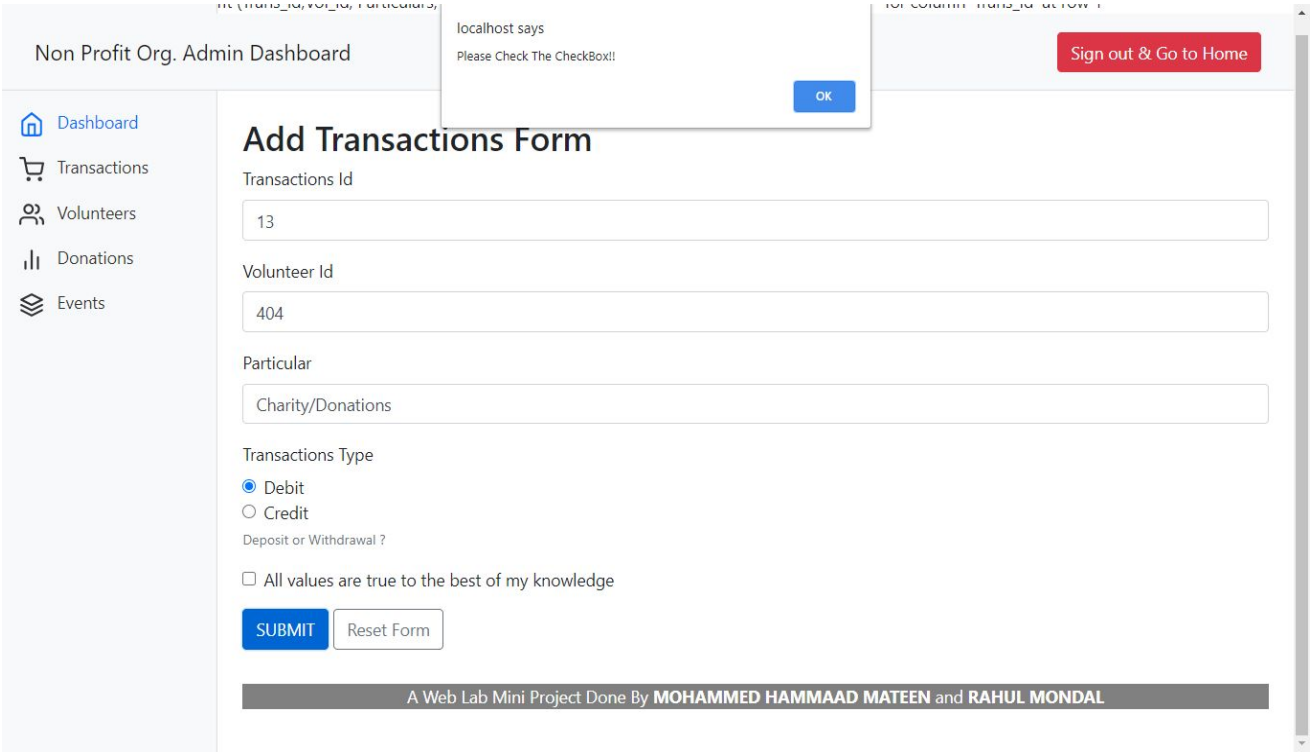

Fig 5.10- Transactions Form Validations

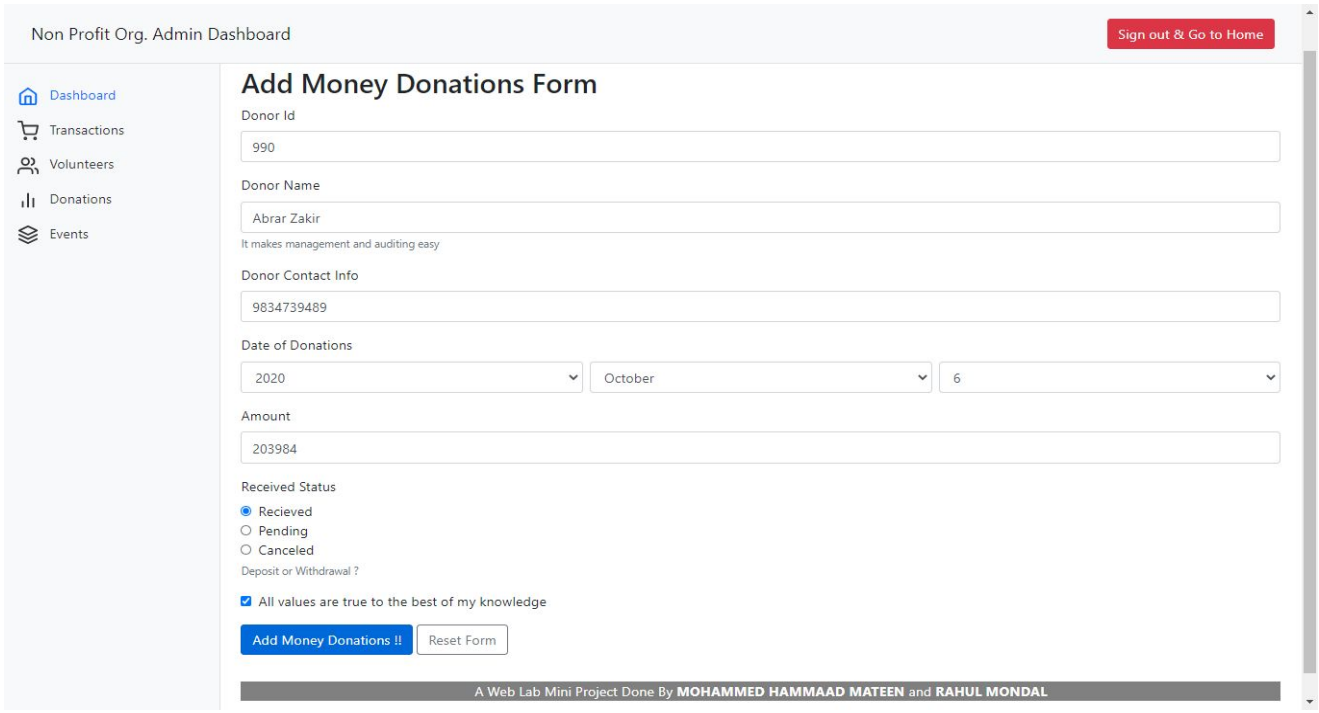

Fig 5.11- Money Donations Addition Form

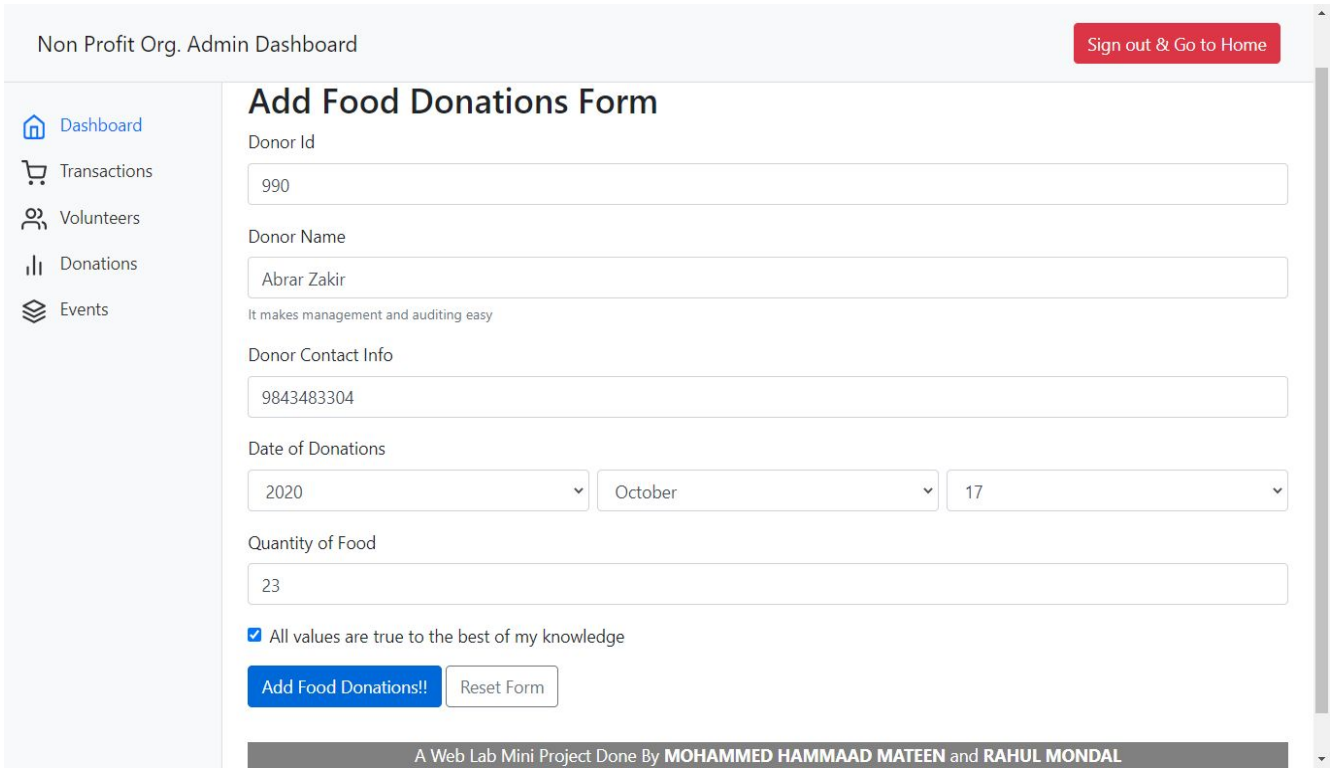

Fig 5.12- Food Donations Addition Form

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.

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❖ Feeding India

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