ONLINE CHARITY MANAGEMENT SYSTEM

BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)

BY

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MAHARASHTRA

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PROFORMA FOR THE APPROVAL PROJECT PROPOSAL

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2.TITLE OF THE PROJECT : ONLINE CHARITY MANAGEMENT SYSTEM

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5.IS THIS YOUR FIRST SUBMISSION.? YES ☐ NO ☐

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DATE: 17/8/2021 DATE:17/8/2021

SIGNATURE OF COORDINATOR

DATE:17/8/2021

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CERTIFICATE

This is to certify that the project entitled, **"ONLINE CHARITY MANAGEMENT SYSTEM ",** is bonafied work of **ISMAIL LALLAN KHAN** bearing Seat No: **2011872** submitted in partial fulfilment of the requirements for the award of degree of BACHELOR OF SCIENCE in INFORMATION TECHNOLOGY from University of Mumbai.

Internal Guide **Coordinator**

External Examiner

Date: **College Seal**

ABSTRACT

This research work generally summarizes the activities carried out in the design and implementation of the online charity management system. This charity management is a non-profit organizational system in which non-governmental organisations and donors can come in and request and donate funds and materials such as cloths, hospital equipment, etc.

In the early days of the World Wide Web, web content management laid entirely in the hands of the webmasters. With the evolution of the web technology and demanding business requirements, the responsibility of web contents management has shifted from webmasters to anyone without any level of web programming knowledge. A charity organization intends to have a website to reach their online audience. They have decided to deploy a Web-based system that will allow the administrative members with basic computer skills to manage the web contents. This thesis addresses the issue by developing Web Content Management System with simple user interfaces where the administrators can manage digital contents. The system should allow end-users to register on the website, upload photos, send emails and make donations. This work evaluates three online payment systems: SMS payment, Google Checkout and PayPal. Eventually, the method that results to be most suitable for the organization is chosen and implemented for online donations. During the work, information is gathered by requirement solicitation methods to facilitate the implementation of end-user interfaces. A database is created and a website is built using the ASP.NET technology. The result is a web-based Content Management System where the administrator can edit contents by using a simple text editor and publish them on the web.

LIST OF ABBREVIATIONS

CPU Central Processing Unit

ERD Entity Relationship Diagram

IT Information Technology

IDE Integrated Development Environment

ERD Entity Relationship Diagram

APP Application

URL Uniform Resource locator

ARCH Architecture

DFD Data Flow Diagram

ACKNOWLEDGEMENT

I take this opportunity to express my deep sense of gratitude to my guide of the project of work **Mrs, Devyani Vasishta** for her continuous guidance and encouragement throughout
the duration of our project work. It is because of her experience and wonderful knowledge, I can fulfil the requirement of completing the project work within the stipulated time.

I would like to thank head of **B.Sc.IT** department **Mr. Mukesh Gupta,** for her whole-hearted cooperation and support. I would also like to thank our principal **Mrs. Meena Patil.**
I take this opportunity to express my profound gratitude to management of **Gyanodaya Degree College** for giving me this opportunity to accomplish this project work.

I acknowledge with thanks, the assistance provided by departmental staff, library, and lab attendants.

DECLARATION

I hereby declare that the project entitled**, "ONLINE CHARITY MANAGEMENT SYSTEM"** done at place where the project is done, has not been in any case duplicated to submit to any other university for the award of any degree. To the best of my knowledge other than me, no one has submitted to any other university.

The project is done in partial fulfilment of the requirements for the award of degree of

BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY) to be submitted as final semester project as part of our curriculum.

MR.ISMAIL LALLAN KHAN

Signature

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CHAPTER 1:

INTRODUCTION

As we all know charity giving is the demonstration of giving cash, products, or time to the grievous, either straight forwardly or by methods for a magnanimous trust or other admirable motivation. Altruistic giving as a strict demonstration or obligation is alluded to as giving or contributions. The name originates from the clearest articulation of the ideals of noble cause; giving the beneficiaries of it the methods they need to endure. The devastated, especially those bereaved or stranded, and the feeble or harmed, are for the most part viewed as the appropriate beneficiaries of good cause. The individuals who can't uphold themselves and need outside methods for help occasionally become straightforwardly requesting help from outsiders experienced openly.

1.1 background

A few gatherings see noble cause as being given towards different individuals from inside their gathering. Albeit supporting those almost associated with oneself is now and again called good cause—as in the truism "Good cause starts at home"—regularly noble cause signifies providing for those not related, with obedient devotion and like terms for
supporting one's loved ones. Surely, treating those found with the provider as though they were outsiders needing good cause has prompted the saying "as cold as noble cause" Providing for one's family members as though they were outsiders, without fondness.

There have been assessments of who offers more to noble cause. One examination led in the India found that as a level of pay, beneficent giving expanded as pay diminished. The
least fortunate fifth of India, for instance, parted with 4.3% of their pay, while the most well off fifth parted with 2.1%. In total terms, this was a normal of $453 on a normal pay of $10,531, contrasted with $3,326 on a pay of $158,388 (India, 2009).

India Muslims were bound to give out of a feeling of strict commitment and a conviction that the individuals who have should provide for the individuals who don't. The examination additionally found that most India confidence bunches organize noble cause towards their own places of love with regards to financial gifts, and afterward different causes. Muslims
and Jews offered more than other strict gatherings to social liberties security associations, while white Evangelical Christians, trailed by Protestants and afterward Catholics, were the destined to make magnanimous commitments to

youth and family benefits. (India Muslim Philanthropy by Alla Hazrat Ahmed Raza Khan,1967).

1.2 Objectives

The main aims and objectives of this project is to design a web-based app that helps the Donors and The NGO's Ease their work. Specifically, the aims are to.
Design and integrate an automated system to improve the services and decreased the time spent calls and searching for services offered in the donation.
Configure a gateway system for online payment to enable individual's ease payment from their mobile devices.
Design and implement users register page, login, and online appointment booking.
Therefore, we propose to build a charity management system for the distribution of donations between charities, giving people the ability to notify about the surplus, and to inform about the poor who need help.

1.3 Purpose and scope

1.3.1 Purpose

- ❖ Development of income resources (donation).
- ❖ Management and distribution of contributions to all the needy and low income families.
- ❖ Optimum provision and utilization of operational, physical, and human resources.
- ❖ Organization and maintenance of facilities and family's data to allow the ease of their access.
- ❖ Speeding up the practical procedures.

1.3.1 Scope

The scope of this project is limited to designing and implementation of a online charity management system to help individuals that are in need of donors for the clients. This is a web application that will be of optimal help

for individuals to make the organisation grow faster. The major functionalities were implemented, and software works perfectly. And the project organization will include.

1.3.2 Applicability

Consistent user interface with high economic features built into it.

- System design in modular and structured way so as to make the integration with other subsystems easier.
- User has complete control as it provides and accepts only appropriate and valid data.
- User-friendly error messages are provided wherever necessary.
- Addition, deletion, modification of records as when needed
- Providing add question for new Person

SYSTEM ANALYSIS

2.1 Existing System

This chapter identifies various methods that can be adapted in collecting data for this research work, employs the most suitable and appropriate method to the implementation of the project, with justifications for the adaptation of the recommended methodology. In defining methodology, Bahol, (2004), stated that "designing implies outlining the name of equipment and other materials the research intends using, applying some to successfully execute the practical aspect of the research project".

According to Brian, (2006), "a research methodology is the basic plan which guides the data collection and analysis phases of a research project. It is the framework which specifies the type of information to be collected and sources of data collection procedure". Hence this chapter elucidates the various applicable design and research methodologies that exist, noting their deficiencies and or relevant merits regarding the successful implementation of this project.

2.2 Proposed System

An efficient online charity management system should be developed, with the aim of ensuring that every poor has access to an adequate quantity of safe donation.

The management system should solve the issue of demand and wastage and lead to self-sufficiency requirement. this should encourage new donors and retain old donors to donate. This system is used to maintain whole information about online charity donation management

2.3 Requirement Analysis

Requirement's analysis, also called requirements engineering, is the process of determining user expectations for a new or modified product. These features, called requirements, must be quantifiable, relevant and detailed. In software engineering, such requirements are often called functional specifications.

2.4 Hardware Requirement

All computer software needs certain hardware components or other software resources to be present on a computer. These prerequisites are known as (computer) system requirements and are often used as a guideline as opposed to an absolute rule.

Table 2.4 explains hardware requirements.

Sr. No	Hardware Description
1	Server RAM 4 GB (Minimum)
2	Processor Intel Pentium
3	2 or more 3 Hard Disk 30 GB (Minimum)

2.5 Software Requirement

A software requirements specification (SRS) is a description of a software system to be developed. It lays out functional and non-functional requirements. Basic software requirements can be used for various server site scripting, browser support, device support their versions to be used for stability purpose The system needs stable software environment to be able to establish a connection between the server and both the administrator and the user. To take care of this all the user and administrator is given all the information about the ideal software versions and specific software's needed to run the system without unexpected crashes.

Table 2.5 explains software requirements.

Sr. No	Hardware Description
1	Window
2	ASP .NET, JAVA, CSS, JavaScript, HTML
3	Visual code

2.6 Justification of selection

Hardware Justification

- Server RAM 4 GB will be helpful for faster processing.
- Hard Disk Space – Basic necessity for storage.
- Processor- ARM based Intel Pentium proffered.

Software Justification

- Window 10 – will be helpful or easy to run programme .
- ASP .NET, JAVA, CSS, JavaScript, HTML and Visual-code– It helps in coding making

Chapter 3

System design

3.1 Module division

A module is a self-contained component of a system (e.g., a product) which has a well-defined interface to other components of the system. There is typically some degree of substitutability among identical and/or non-identical modules within a system or between systems.

This system has three modules namely, Admin, NGO and Donor. Admin can login using credentials and manage the request raised by NGO by approving or rejecting it. Approval will be done after verifying the NGO documents uploaded by NGO. Admin will get the report of NGOs who get donations.

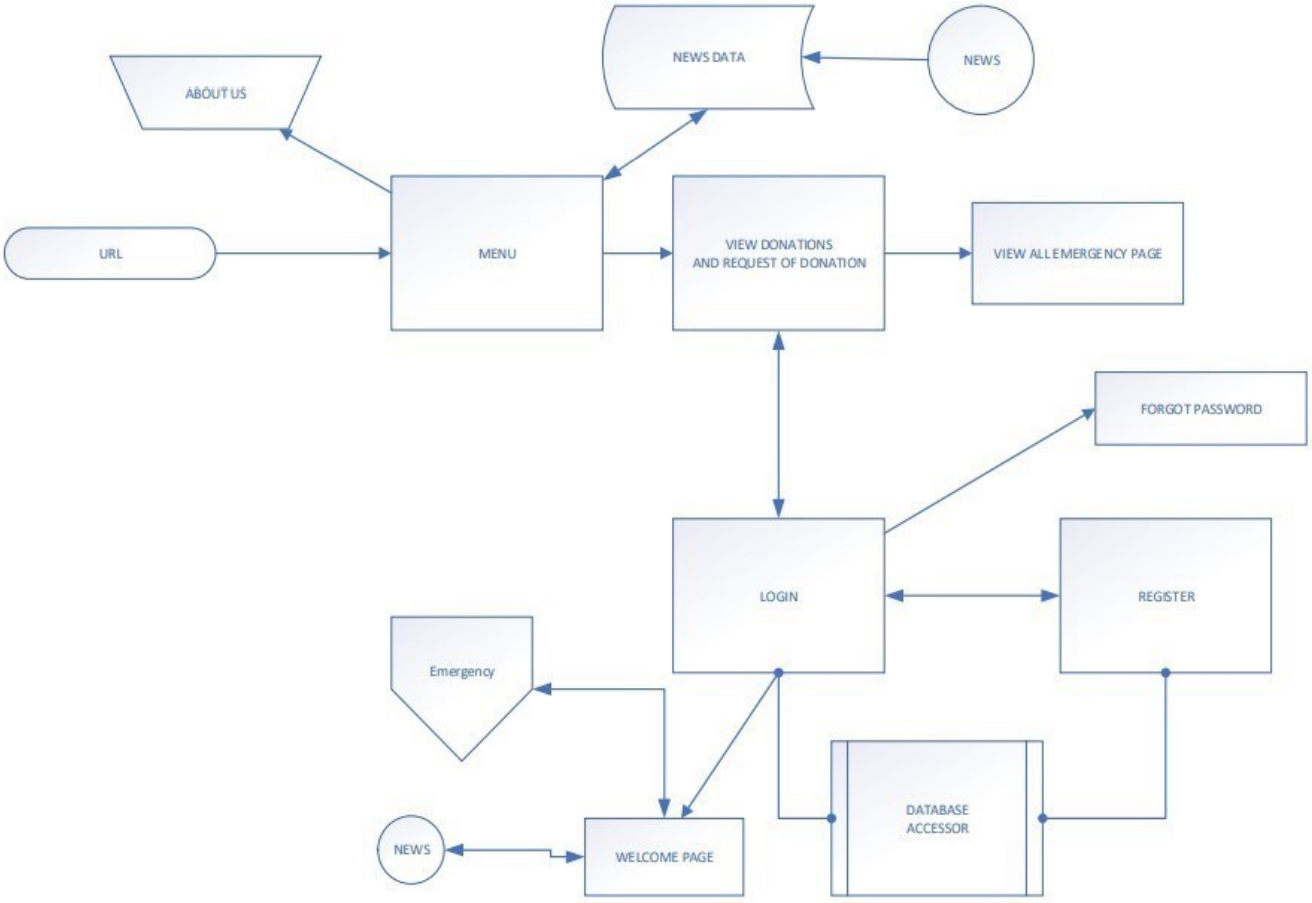
Charity is an act of kindness, in which financially stable people provide help to those people who are needy. The majority of NGOs do not get enough funds to support their organization. Finding a sponsor was a difficult task, and it was a big challenge for NGOs to deal with sponsors. This Charity Management System helps to find sponsors easily.

The system has three modules, Admin, NGO, and Sponsor. Admin can manage the requests raised by NGOs and can accept or reject. After approving the request of any organization, NGOs get credentials for their login. NGOs will be verified by the admin by reviewing their uploaded documents. NGOs can request the Sponsors for funds. Sponsors can review the organization by their previous reports of events.

3.2 Data Dictionary

3.2.1 Website Design

3.2.2 Application Architecture



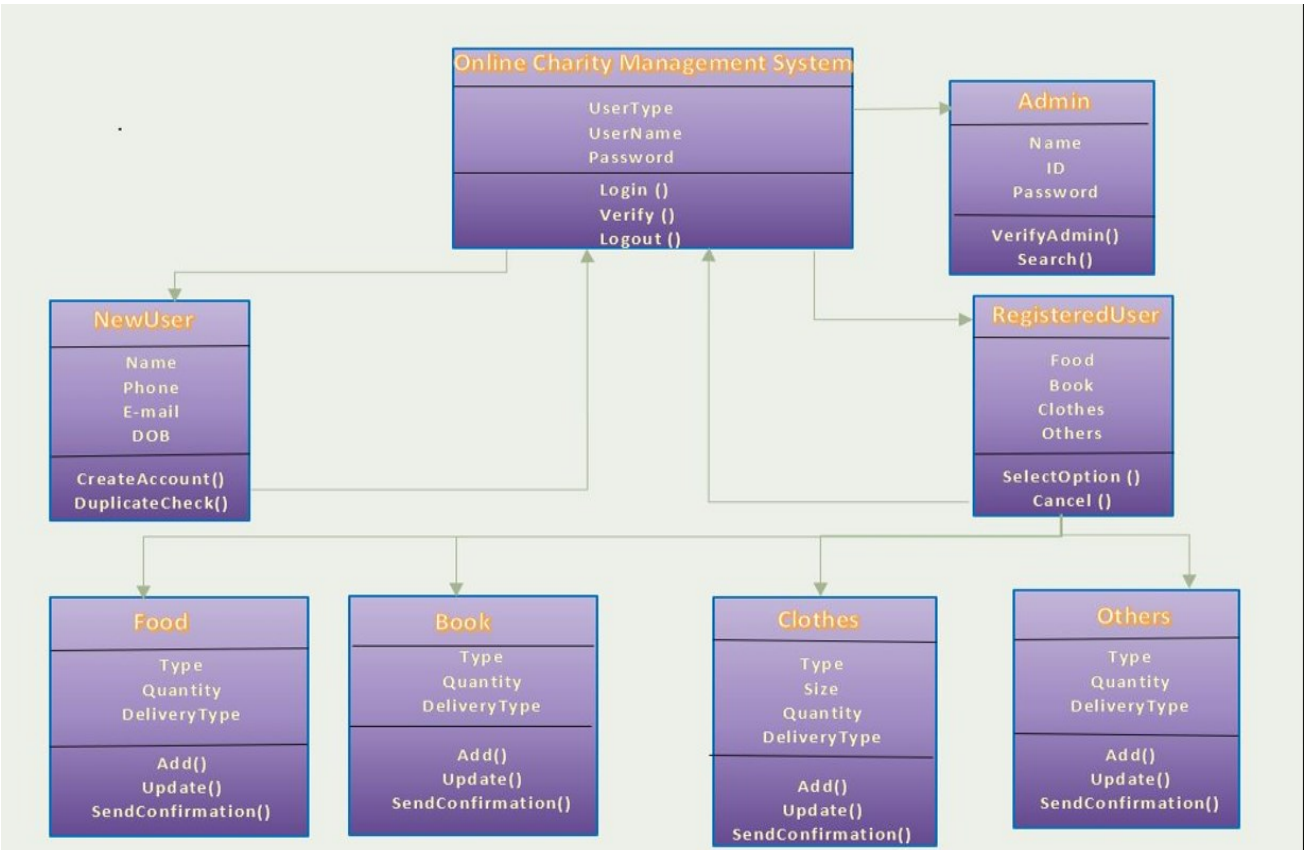
HOME

3.3 E-R Diagrams

Entity-Relationship Diagram (ERD)

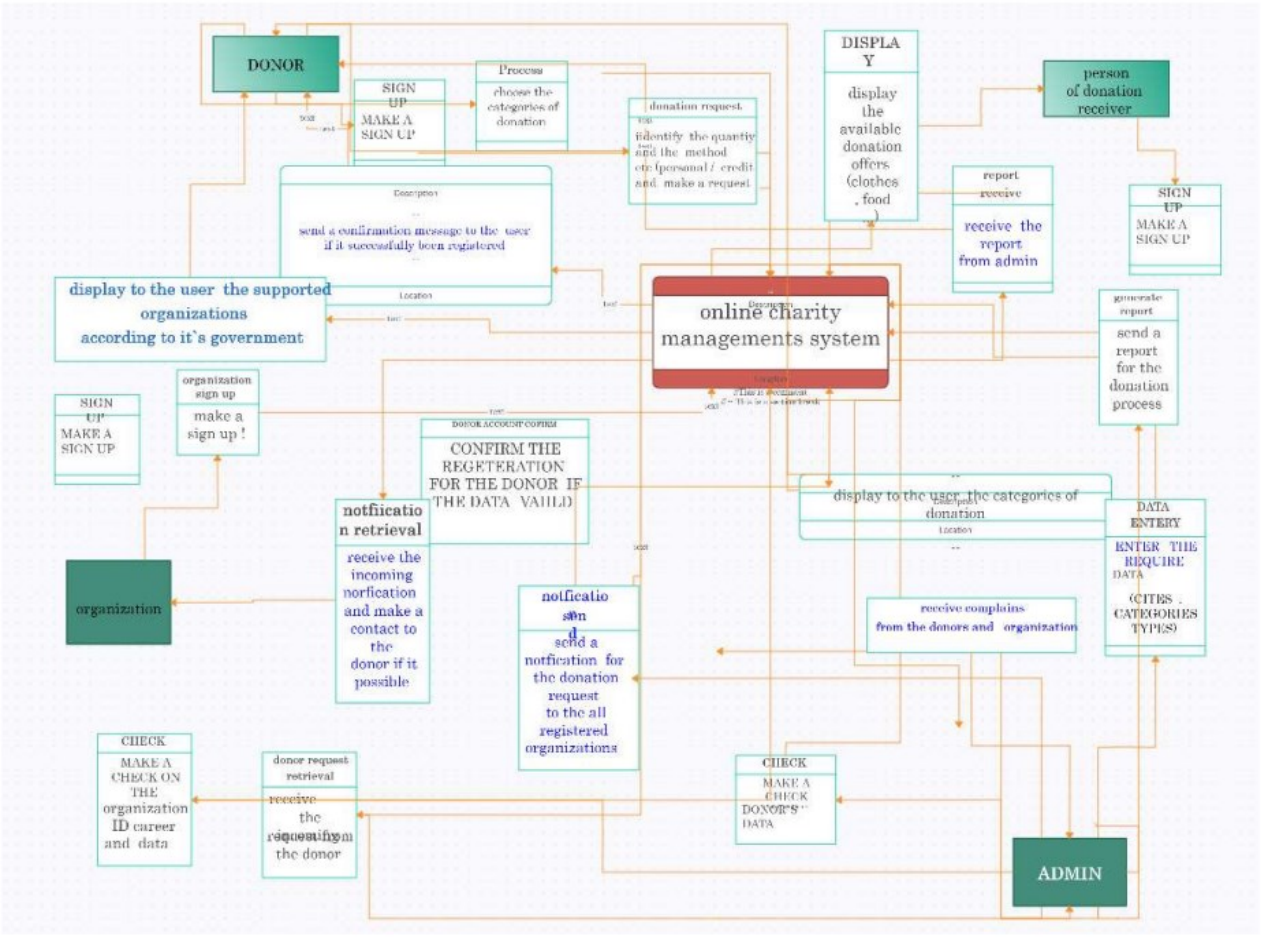
Figure 3.3.1 mention entity relationship diagram for the proposed system. An entity-relationship (ER) diagram is a specialized graphic that illustrates the relationships between entities in a database. ER diagrams often use symbols to represent three different types of information. Boxes are used to represent entities. Diamonds are used to represent relationships and ovals are used to show attributes. Entity Relationship diagram is used to show the relation between the entity and with its attributes.

Entity-relationship diagrams show the entities and attributes of tables in a database. Linked ERDs show the relationship between tables or tables. Entities can only have a many-to-one or one-to-many relationship, e.g., in Figure A below.



3.4 Data Flow Diagrams

Data Flow diagram. Data flow diagram (DFD) represents the flows of data between different processes in a business. It is a graphical technique that depicts information flow and the transforms that are applied as data move form input to output.

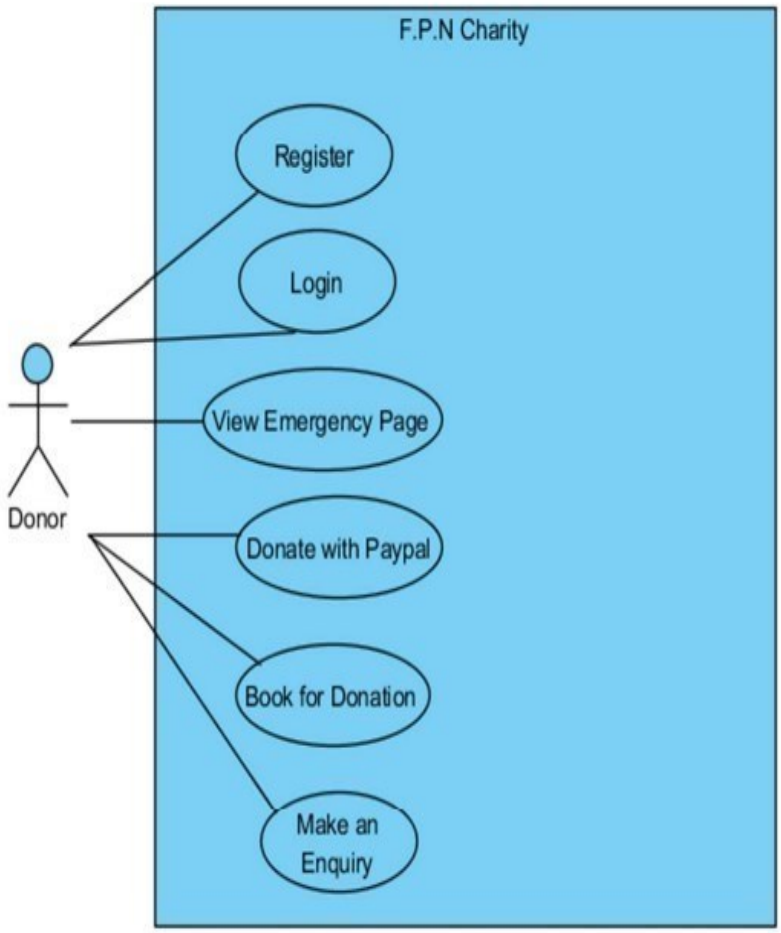


3.5 Use Case Sentence

What is Use Case Sentence?

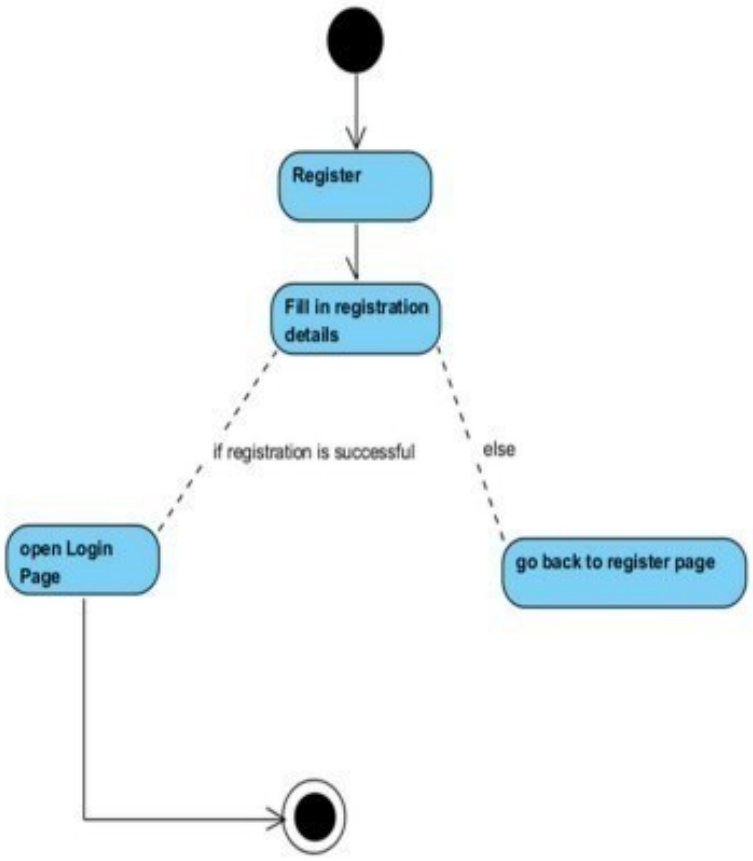
To create a use case diagram in UML for showing the work Now of user, admin and web application. In software and system engineering a use case is a list of actions or event steps typically defining interaction between a role in known Unified Modelling Language as an actor and a system to achieve goal. It can be human or external system.

A Use Case diagram depicts the interaction between the users and the system. It shows the functions of the system from the user ’s point of view and the various actions the user as the actor carries out.



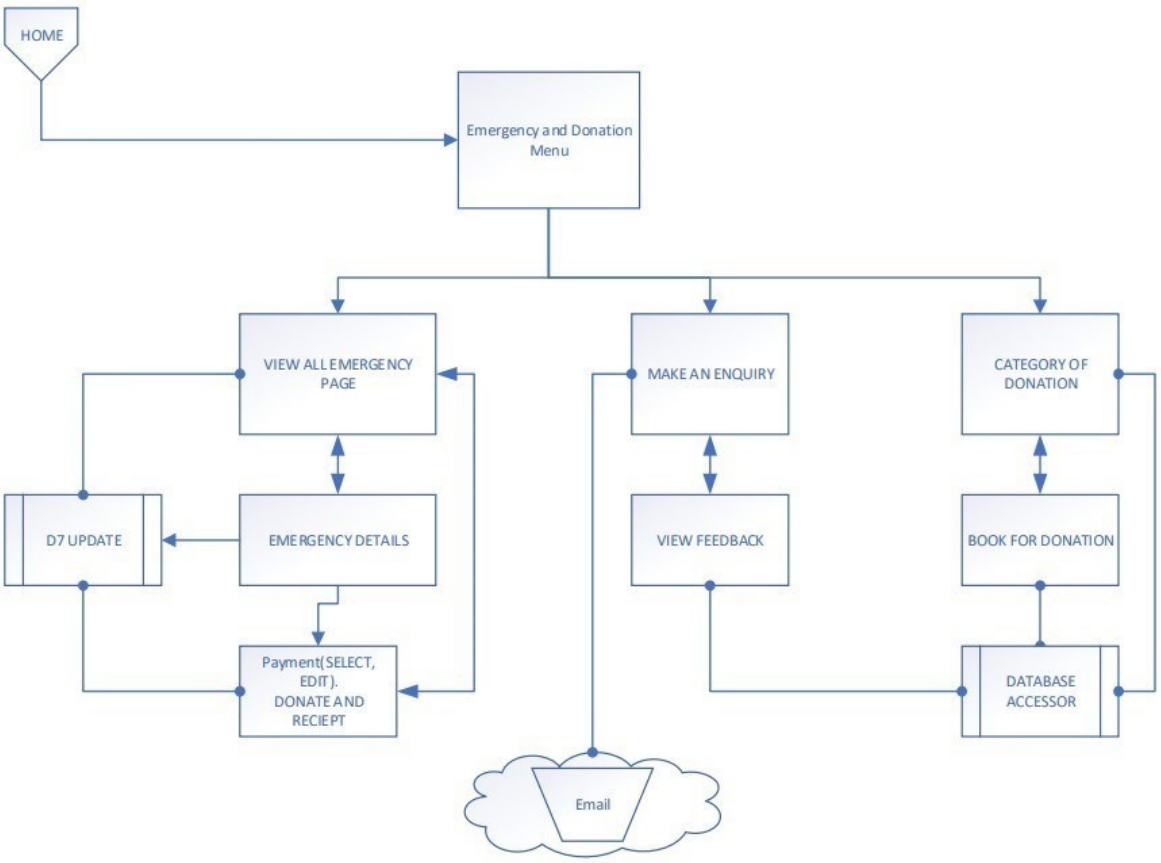
Activity Diagram

An activity diagram is a model that shows the process of a task or action from a use case.



3.6 Sequence Diagram

Figure 3.6 shows a sequence diagram of a user logging in to a social media. A Sequence diagram is an interaction diagram that shows how processes operate with one another and in what order. A sequence diagram shows object interactions arranged in time sequence. It depicts the objects and classes involved in the scenario and the sequence of messages exchanged between the objects needed to carry out the functionality of the scenario. A sequence diagram is a timeline, here a timeline where for a time span a user can log in in case if users take more time then it mentions time out. Various cases are mentioned such as user, log in, update, verify through admin, database. The process moves as follows the user visits the login page and enters the login details these details are sent to the database which checks and verifies the phone number and password is correct or not if it is incorrect the then the login page tells the user that the input is incorrect and if it is correct then user can post forums and those forums are rated from admin if the post is irrelevant then admin messages invalid update to the user



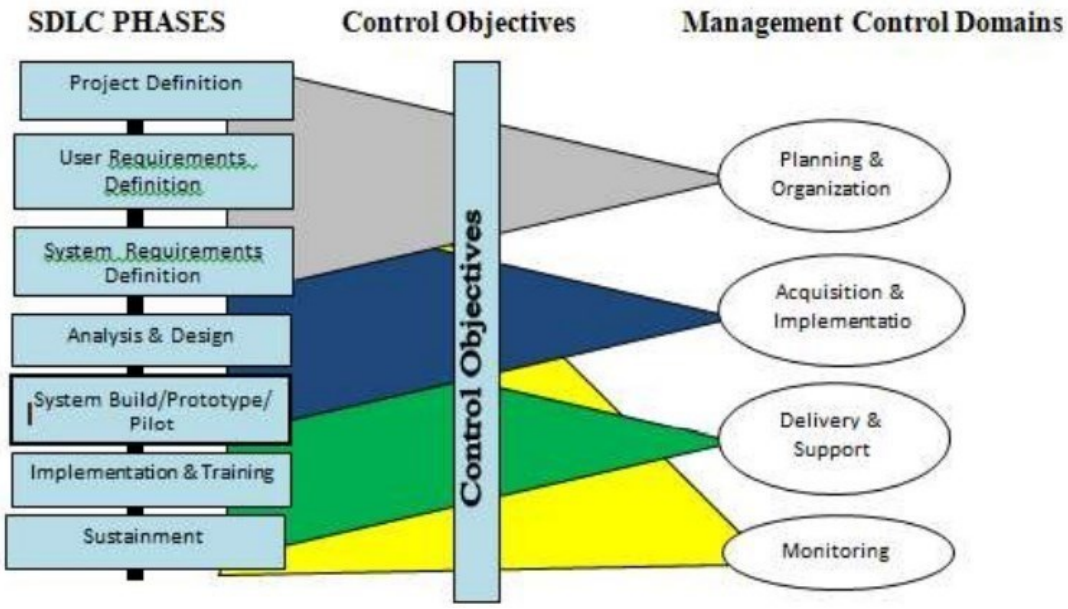
EMERGENCIES AND DONATIONS

ANALYSIS AND DESIGN

Usefulness in Developing Systems	Waterfall	Parallel	V-Model	Iterative	System Prototyping	Throwaway Prototyping	Agile Development
with unclear user requirements	Poor	Poor	Poor	Good	Excellent	Excellent	Excellent
with unfamiliar technology	Poor	Poor	Poor	Good	Poor	Excellent	Poor
that are complex	Good	Good	Good	Good	Poor	Excellent	Poor
that are reliable	Good	Good	Excellent	Good	Poor	Excellent	Good
with short time schedule	Poor	Good	Poor	Excellent	Excellent	Good	Excellent
with schedule visibility	Poor	Poor	Poor	Excellent	Excellent	Good	Good

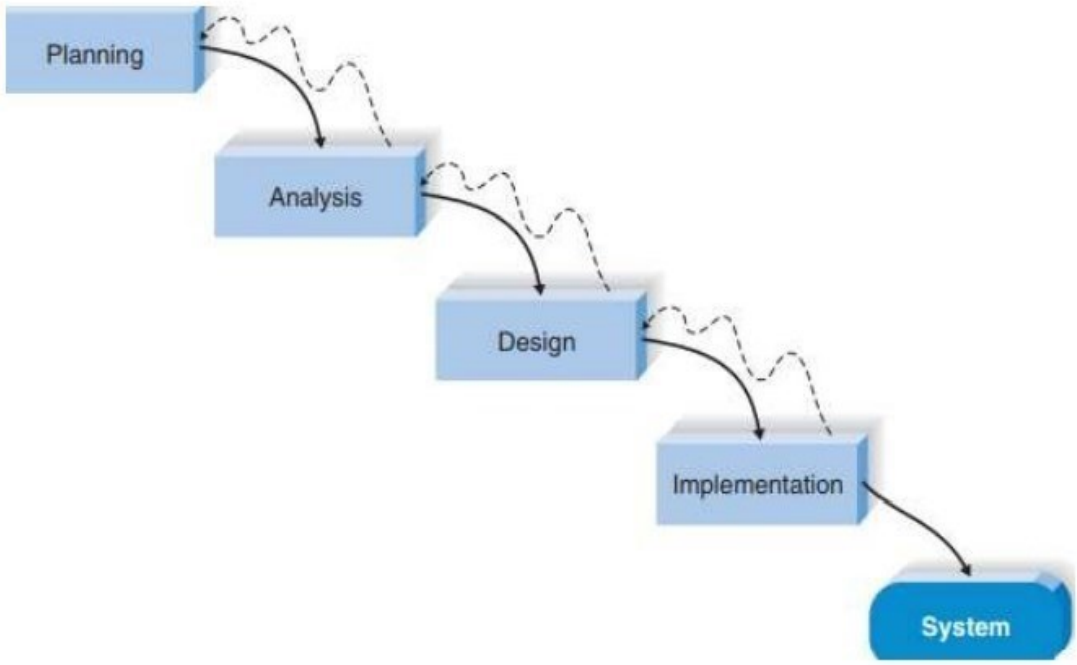
The proposed methodology adopted is the Software Development Life Cycle Methodologies.

Software development life cycle (SDLC) is a series of phases that provide a common understanding of the software building process. However, the software will be realized and developed from the business understanding and requirements elicitation phases to convert these business ideas and requirements into functions and features until its usage and operation to achieve the business needs is carried out



Waterfall Methodology

Waterfall model was the first process model also referred to as linear sequential life cycle model. It was the earliest Software development life cycle (SDLC) approach that was used for software development. In a waterfall model, each phase must be completed before the next phase and there is no overlapping in the phases. There is no going back. Each phase relies on information from the previous stage. This makes it inflexible to change. In a case where change must occur, the whole project has to be scratched from the beginning. This methodology creates no room for change; as a result, an extensive plan must be carried out from the beginning and then followed carefully



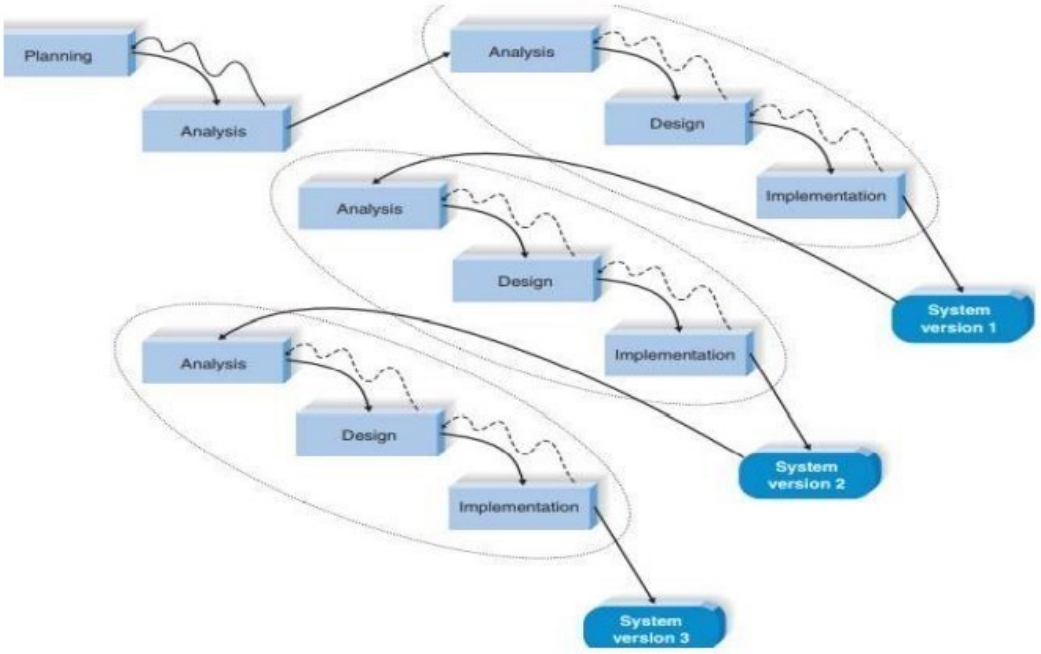
Waterfall Diagram

Advantages

- The model is simple to use and understand.
- The progress of the system is measurable and easy to classify and prioritize the tasks.

Disadvantages

- The software is ready only after the last stage over.
- It is difficult when responding to changes.



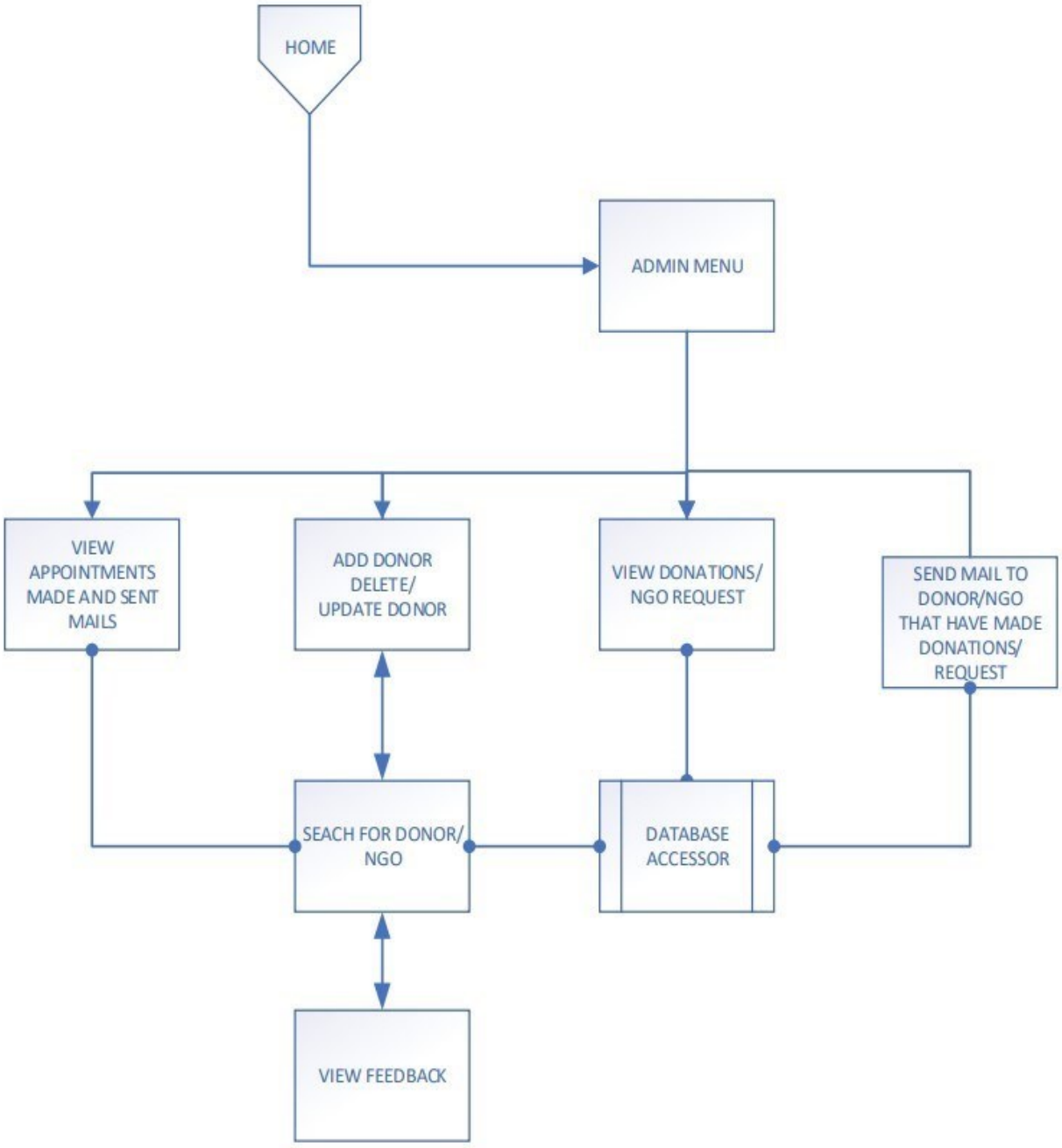
Prototyping Diagram

Advantages

- Clients get a clearer understanding and complete 'feel' of the functionality of the software.
- Functionality can be easily identified when missing.

Disadvantages

- When the application is incomplete it may cause the application not to be used as the full system was designed.
- Changes may occur, and it may not be good for the project, it can easily disturb the workflow of the entire software development team and could be expensive to implement.


HOME
ADMIN MENU
VIEW APPOINTMENTS MADE AND SENT MAILS
ADD DONOR DELETE/ UPDATE DONOR
VIEW DONATIONS/ NGO REQUEST
SEND MAIL TO DONOR/NGO THAT HAVE MADE DONATIONS/ REQUEST
SEACH FOR DONOR/ NGO
DATABASE ACCESSOR
VIEW FEEDBACK

ADMIN

FORM DESIGNS

Chapter 4
Implementation and Testing

4.1 Code Segments

MAIN PAGE CODING

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeFile="Index.aspx.cs" Inherits="Index" %>


<!DOCTYPE html>


<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <meta charset="utf-8">
    <meta http-equiv="x-ua-compatible" content="ie=edge">
    <title>online charity management system</title>
    <meta name="description" content="">
```

```
    <meta name="viewport" content="width=device-width, initial-scale=1">

    <!-- <link rel="manifest" href="site.webmanifest"> -->
    <link rel="shortcut icon" type="image/x-icon"
href="img/favicon.png">     <!-- Place favicon.ico in the root
directory -->

    <!-- CSS here -->
    <link rel="stylesheet" href="css/bootstrap.min.css">
    <link rel="stylesheet" href="css/owl.carousel.min.css">
    <link rel="stylesheet" href="css/magnific-popup.css">
    <link rel="stylesheet" href="css/font-awesome.min.css">
    <link rel="stylesheet" href="css/themify-icons.css">
    <link rel="stylesheet" href="css/nice-select.css">
    <link rel="stylesheet" href="css/flaticon.css">
    <link rel="stylesheet" href="css/animate.css">
    <link rel="stylesheet" href="css/slicknav.css">
    <link rel="stylesheet" href="css/style.css">
</head>
<body>
    <header>
        <div class="header-area ">
            <div id="sticky-header" class="main-header-area">
                <div class="container-fluid p-0">
                    <div class="row align-items-center justify-content-between no-
gutters">
                        <div class="col-xl-2 col-lg-2">
                            <div class="logo-img">
                                <a href="Index.aspx">
```

```
                    <img src="img/anil projectlogo.png" width="100"
height="100" alt="">
                  </a>
                </div>
              </div>
              <div class="col-xl-7 col-lg-7">
                <div class="main-menu  d-none d-lg-block">
                  <nav>
                    <ul id="navigation">
                      <li><a href="Index.aspx">home</a></li>
                      <li><a href="AboutUs.aspx">About</a></li>
                      <li><a href="ContactUs.aspx">Contact</a></li>
                      <li><a href="RegisterPage.aspx">Register</a></li>
                      <li><a href="LoginPage.aspx">Log In</a></li>
                    </ul>
                  </nav>
                </div>
              </div>
              <div class="col-12">
                <div class="mobile_menu d-block d-lg-none"></div>
              </div>
            </div>
          </div>
        </div>
      </header>
      <!-- header-end -->

      <!-- slider_area_start -->
      <div class="slider_area slider_bg_1 d-flex align-items-center">
```

```
        <div class="container">
            <div class="row">
                <div class="col-xl-12">
                    <div class="single_slider">
                        <div class="slider_text">
                            <h3>Support a Causes
                                <br>
                                You Care About</h3>
                            <p>
                                we believe that all children in the world have the right to
be
                                <br>
                                cared for and the right to be protected
                            </p>
                            <a href="#" class="boxed-btn2">Join Us Today</a>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
    <!-- slider_area_end -->

    <!-- causes_area_start -->
    <div class="causes_area">
        <div class="container">
            <div class="row align-items-center">
                <div class="col-xl-6 col-md-6">
                    <div class="causes_info">
                        <div class="section_title">
```

```
                <h3>We Believe That All Children Are
                  <br>
                  Born Equal And Every Child
                  <br>
                  Deserve A Nurturing Childhood
                </h3>
              </div>

              <p>
                <b>Inspires Donors and organizations to support
unfortunates<br>
                  We do this to bring more resources to the online charity
management system that are
                  <br>
                  changing our world.</b>
              </p>
            </div>
          </div>
          <div class="col-xl-6
col-md-6">                <div
class="causes_thumb">
              <img class="img-fluid" src="img/causes/1.png" alt="">
              <div class="custom_progress_bar">
                <div class="progress">
                  <div class="progress-bar wow slideInLeft"
role="progressbar" ariavaluenow="60"
                    aria-valuemin="0" aria-valuemax="100" style="width:
60%">
                    <div class="value_progress">
                      <span>Help Us</span>
```

```
                    </div>
                  </div>
                </div>
              </div>
            </div>
          </div>
        </div>
      </div>
      <!-- causes_area_end -->

      <!-- about_area_start -->
      <div class="about_area gray-bg">
        <div class="container">
          <div class="row align-items-center">
            <div class="col-xl-6 col-md-6">
              <div class="about_thumb">
                <img src="img/about/about.png" alt="">
                <div class="served_over">
                  <span>Alone We Can Do So Little</span>
                  <h3>Together</h3>
                  <p>We Can Do So Much</p>
                </div>
              </div>
            </div>
            <div class="col-xl-6 col-md-6">
              <div class="about_right">
                <div class="section_title">
                  <span>About Us</span>
```

```
                    <h3>Striving Everyday To
                      <br>
                      Provide A Better Future For Children
<br>
                      In Need Of Care And<br>
                      Protection.
                    </h3>
                  </div>
                  <p>
                    <b>Inspires Donors and organizations to support
unfortunates.
                      <br>
                      We do this to bring more resources to the online charity
management system that are
                      <br>
                      changing our world.</b>
                  </p>


                </div>
              </div>
            </div>
          </div>
        </div>
        <!-- about_area_end -->


        <!-- servce_area_start -->
        <div class="servce_area">
          <div class="container">
            <div class="row">
              <div class="col-xl-12">
```

```
            <div class="section_title text-center mb-60">
              <span>We Work For</span>
              <h3>We Serve For Needy Peoples
              </h3>
            </div>
          </div>
        </div>
        <div class="row">
          <div class="col-xl-4 col-md-4">
            <div class="single_serve text-center">
              <div class="serve_icon">
                <i class="flaticon-meat"></i>
              </div>
              <h3>Pure Food & Water</h3>
              <p>
                Inspires Donors and organizations to support unfortunates.
We do this to bring more resources to the online charity
management system that are
              </p>
            </div>
          </div>
          <div class="col-xl-4 col-md-4">
            <div class="single_serve text-center">
              <div class="serve_icon">
                <i class="flaticon-medicine"></i>
              </div>
              <h3>Medicine</h3>
              <p>
```

```
                Inspires Donors and organizations to support unfortunates.
We do this to bring                more resources to the online charity
management system that are
                </p>
              </div>
            </div>
            <div class="col-xl-4 col-md-4">
              <div class="single_serve text-center">
                <div class="serve_icon">
                  <i class="flaticon-open-magazine"></i>
                </div>
                <h3>Education</h3>
                <p>
                Inspires Donors and organizations to support unfortunates.
We do this to bring                more resources to the online charity
management system that are
                </p>
              </div>
            </div>
          </div>
        </div>
      </div>
      <!-- servce_area_end -->

      <!-- help_area_start -->
      <div class="help_area gray-bg">
        <div class="container">
          <div class="row align-items-center">
            <div class="col-xl-4">
              <div class="help_info">
```

```
                <div class="section_title">
                  <span>Help Them</span>
                  <h3>They Needs
                    <br>
your Help
                  </h3>
                </div>
                <p>
                  Inspires Donors and organizations to support unfortunates. Do this to bring
more                resources.
                </p>

              </div>
            </div>
            <div class="col-xl-8">
              <div class="help_slider_active owl-carousel">
                <div class="single_help_wrap">
                  <div class="thumb">
                    <img src="img/help/1.png" alt="">
                  </div>
                  <div class="help_content">
                    <h3>Help Reshma to continue her
                      <br>
                      Primary Education</h3>

                    <a href="#" class="boxed-btn4 ">Donate Now</a>
                  </div>
                </div>
                <div class="single_help_wrap">
                  <div class="thumb">
```

```
                    <img src="img/help/2.png" alt="">
                </div>
                <div class="help_content">
                    <h3>Help Alfiya to continue her
                        <br>
                        Primary Education</h3>

                    <a href="#" class="boxed-btn4 ">Donate Now</a>
                </div>
            </div>
        </div>
    </div>
</div>
<!-- help_area_end -->


<!-- footer_start -->
<footer class="footer">
    <div class="footer_top">
        <div class="container">
            <div class="row">
                <div class="col-xl-3 col-md-6 col-lg-3">
                    <div class="footer_widget">
                        <h3 class="footer_title">Join With Us
                        </h3>
                        <p class="footer_text doanar">
                            <ul>
```

```
                        <li>
                            <a href="VolunteerRegisterPage.aspx">Become a
Volunteer</a>
                        </li>
                        <li>
                           <a href="DonorRegisterPage.aspx">Become a
Donor</a>
                        </li>
                      </ul>
                    </p>

                  </div>
                </div>
                <div class="col-xl-3 col-md-6 col-lg-3">
                  <div class="footer_widget">
                    <h3 class="footer_title">address
                    </h3>
                    <p class="footer_text">
                      Rabodi Thane (W)
                      <br>
                      +91 9702941523
                      <br>
                      <a class="domain"
href="#">onlinecharity@gmail.com</a>
                    </p>
                    <div class="socail_links">
                      <ul>
                        <li>
                          <a href="#">
                            <i class="fa fa-facebook-square"></i>
                          </a>
```

```
            </li>
            <li>
              <a href="#">
                <i class="fa fa-twitter"></i>
              </a>
            </li>
            <li>
              <a href="#">
                <i class="fa fa-instagram"></i>
              </a>
            </li>
          </ul>
        </div>
      </div>
    </div>
    <div class="col-xl-2 col-md-6 col-lg-2">
      <div class="footer_widget">
        <h3 class="footer_title">Navigation
        </h3>
        <ul>
          <li><a href="Index.aspx">Home</a></li>
          <li><a href="#">Events</a></li>
          <li><a href="AboutUs.aspx">About</a></li>
          <li><a href="#">News</a></li>
        </ul>
      </div>
    </div>
    <div class="col-xl-4 col-md-6 col-lg-4">
      <div class="footer_widget">
```

```
                    <h3 class="footer_title">Newsletter
                    </h3>
                    <form action="#" class="newsletter_form">
                      <input type="text" placeholder="Enter your mail">
                      <button type="submit">Sign Up</button>
                    </form>
                    <p class="newsletter_text">Subscribe newsletter to get
updates</p>
                  </div>
                </div>
              </div>
            </div>
          </div>
          <div class="copy-right_text">
            <div class="container">
              <div class="footer_border"></div>
              <div class="row">
                <div class="col-xl-12">
                  <p class="copy_right text-center">
                    <!-- Link back to Colorlib can't be removed. Template is
licensed under CC BY 3.0. -->
                    Copyright &copy;<script>document.write(new
Date().getFullYear());</script>
                    All rights reserved | Develop By Ismail Khan</a>
                    <!-- Link back to Colorlib can't be removed. Template is
licensed under CC BY 3.0. -->
                  </p>
                </div>
              </div>
            </div>
          </div>
```

```
</footer>
<!-- footer_end -->


<!-- JS here -->
<script src="js/vendor/modernizr-3.5.0.min.js"></script>
<script src="js/vendor/jquery-1.12.4.min.js"></script>
<script src="js/popper.min.js"></script>
<script src="js/bootstrap.min.js"></script>
<script src="js/owl.carousel.min.js"></script>
<script src="js/isotope.pkgd.min.js"></script>
<script src="js/ajax-form.js"></script>
<script src="js/waypoints.min.js"></script>
<script src="js/jquery.counterup.min.js"></script>
<script src="js/imagesloaded.pkgd.min.js"></script>
<script src="js/scrollIt.js"></script>
<script src="js/jquery.scrollUp.min.js"></script>
<script src="js/wow.min.js"></script>
<script src="js/nice-select.min.js"></script>
<script src="js/jquery.slicknav.min.js"></script>
<script src="js/jquery.magnific-popup.min.js"></script>
<script src="js/plugins.js"></script>

<!--contact js-->
<script src="js/contact.js"></script>
<script src="js/jquery.ajaxchimp.min.js"></script>
<script src="js/jquery.form.js"></script>
<script src="js/jquery.validate.min.js"></script>
<script src="js/mail-script.js"></script>
```

```
    <script src="js/main.js"></script>
    <form id="form1" runat="server">
        <div>
        </div>
    </form>
</body>
</html>
```

4.2 Testing Approach

4.2.1 Metamorphic Testing

Testing the correctness of services assures the functional quality of service-oriented applications. A service-oriented application may bind dynamically to its supportive services. For the same service interface, the supportive services may behave differently. A service may also need to realize a business strategy, like best pricing, relative to the behaviour of its counterparts and the dynamic market situations.

Many existing works ignore these issues to address the problem of identifying failures from test results. This article proposes a metamorphic approach for online services testing.

4.2.2 Test Case

Admin Login

Test Engineer:	Ismail
Test Case ID:	TC1
Related UC/FR/NFR	UC1
Date:	07-04-2022
Purpose:	Application user authentication
Test Data:	Email & password
Steps:	1. Run the application 2. Enter Email 3. Enter Password 4. Click login
Status:	Pass

User Login

Test Engineer:	Ismail Khan
Test Case ID:	TC2
Related UC/FR/NFR	UC2
Date:	07-04-2022
Purpose:	Application user authentication

Test Data:	Email and password
Steps:	1. Run the application 2. Enter Email 3. Enter Password 4. Click login
Status:	Pass

Volunteer Register

Test Engineer:	Ismail Khan
Test Case ID:	TC3
Related UC/FR/NFR	UC3
Date:	07-04-2022
Purpose:	Register for customer information
Test Data:	Required Data: Name, Email Address, Address, Customer Mobile No, Password, Customer Country, Customer City, Customer Image
Steps:	1. Run the application 2. Enter Name 3. Enter Email Address 4. Enter Address 5. Enter the Password 6. Select Country 7. Enter City 8. Choose Image File 9. Click Register
Status:	Pass

Chapter 5

Results and Discussions

5.1 Overview

This chapter is the final part of the project documentation, which assesses the objectives of the project, the limitations, and challenges faced in the course of the project, future enhancements, recommendations, and summary.

5.2 Objective Assessment

The project went according to plan and all the functional requirements stated for the application were implemented except one. The application has been given to users to try out and some key drawbacks have been noticed and will be fixed in subsequent updates. Also, this project has not fully met the non functional requirements in terms of security. This problem will be solved in subsequent updates. During the course of this project, I have been able to improve my asp.net web application development skills. I have also learnt a lot about sessions and how they are used in key areas in web development.

5.3 Limitations and Challenges

During implementation, the major limitation faced was the time constraint. If there was more time allocated to the implementation of this application, all the functional and non-functional requirements would have been implemented.

5.4 Future Enhancements

The following features listed below will be added to the application as enhancements in the future:

● The use of google maps to pinpoint the user's location instead of asking the user to enter their location.

● The donor will be able to donate items to more categories(bed/utensils/money)

● Deploying the database to Azure MySQL service.

● The application will be able to have a virtual 24/7 chat service.

5.5 Recommendations

For this application to be used effectively, I would strongly recommend that training be given to the admin, so he/she becomes acquainted with using the platform. Also, training should be given to donors on how to use the web application.

5.6 Summary

In conclusion, the quest to conquer the manual method of donating money has been turned into an online experience.

Chapter 6

Conclusion and future work

6.1 Conclusion

For this application to be used effectively, I would strongly recommend that training be given to the admin, so he/she becomes acquainted with using the platform. Also, training should be given to donors on how to use the web application.

In conclusion, the quest to conquer the manual method of donating money has been turned into an online experience.

6.2 future work

The following features listed below will be added to the application as enhancements in the future:

- ❑ The use of google maps to pinpoint the user's location instead of asking the user to enter their location.
- ❑ The donor will be able to donate Funds using secure payment gateways
- ❑ Deploying the database to Azure MySQL service.
- ❑ The application will be able to have a virtual 24/7 chat service

Chapter 7

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THANK YOU