

A Project Report On Blood Bank Management System

Submitted by

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Under the supervision and guidance of

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Sikharthy Infotech Private Limited, Siliguri



In the partial fulfilment of requirements for the award of Degree in

Master of Computer Application

Batch 2020-2022

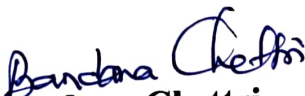
Submitted to the

SCHOOL OF INFORMATION TECHNOLOGY

DECLARATION

I hereby declare that the work recorded in this project report entitled "**Blood Bank Management System**" in partial fulfilment for the requirements for the award of Degree in Master of Computer Applications from SRM University Sikkim, is a faithful and bonafide work carried out under the supervision and guidance of **Mr. P.Sivaramkumar Asst. Prof** from 2nd June 2022 to 2nd August 2022.

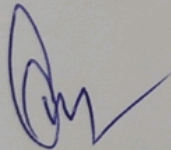
The results of this investigation reported in this project have so far not been reported for any other Degree or other technical forum. The assistance and help received during the investigation have been duly acknowledged.


Bandana Chettri
20IT103015

CERTIFICATE OF ACCEPTANCE

This is to certify that Ms Bandana Chettri bearing Registration No. 20IT103015 of School of Information Technology, SRM University Sikkim has worked on the project entitled "Blood Bank Management System" under the supervision of Mr P. Sivaramkumar, Asst Prof, School of Information Technology, Shri Ramasamy Memorial University Sikkim. The project was carried out from 2nd May to 2nd August.

The project is hereby accepted by the School of Information Technology, SRM University Sikkim, in partial fulfilment of the requirements for the award of Degree in Master of Computer Application.



Dr Om Prakash Sharma
HOD(IT)
School of Information Technology
SRM University Sikkim

HEAD OF DEPARTMENT
SCHOOL OF INFORMATION TECHNOLOGY
SRM UNIVERSITY SIKKIM

BONAFIDE CERTIFICATE

Certified that this project report titled “**Blood Bank Management System**” is the bonafide work of **Bandana Chettri (20IT103015)** who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein is not part of any other project report or dissertation based on which a degree or award was conferred on an earlier occasion to this or any other candidate.

Submitted for the viva-voce examination held on 10th August 2022



HOD- School of IT


GUIDE

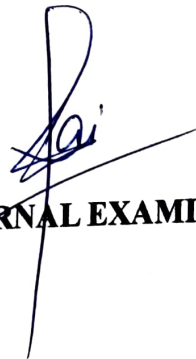
**HEAD OF DEPARTMENT
SCHOOL OF INFORMATION TECHNOLOGY
SRM UNIVERSITY SIKKIM**



ASSOCIATE DEAN



INTERNAL EXAMINER



EXTERNAL EXAMINER

ABSTRACT

Blood Bank Management System is a web-based application. The entire project was developed with distributed client server computing technology in mind. Through this application anyone interested in donating blood can register through this website. Moreover, any general patients can request blood through this site.

Admin is the main authority who can do addition, deletion and modification if required. The project has been planned to be having the view of distributed architecture with centralized storage of the database.

This website has been developed using the HTML, CSS, JavaScript and bootstrap for the Front End and for backend I have used My SQL Server and PHP.

ACKNOWLEDGEMENT

This Project would not have been possible without the guidance and the help of several individuals who in one way or another contributed and extended their valuable assistance in the preparation and completion of this study. I would like to express my gratitude to Sikharthy Infotech Private Limited, Siliguri for including internship program which has provided an opportunity to gain many knowledge and different experience in the organization.

My sincere gratitude to Dr Om Prakash Sharma, HOD of IT Department SRM University, Sikkim for giving me a chance to do my internship in Sikharthy Infotech Private Limited.

I am thankful to Mr P.Sivaramkumar my project guide from IT department and Ms. Sabna Sharma our Project Coordinator for devoting time from their busy schedule and explaining how work is being done and assigning me with various tasks during these internship period.

I would also like to thank all the staff for their great cooperation, guidance and support during the internship.

INTERNSHIP CERTIFICATE



SIKHARTHY INFOTECH PVT.LTD.

ERGO Brilliant, EP & GP-95, 4th Floor, Module – 404A, Sector V, Salt Lake, Kolkata – 91
Recognized by **STARTUP INDIA, NSDC, UTKARSH BANGLA, BOPT**

Contact- +91 8420327035 / 8

Date: 01-07-2022

To Whom It May Concern

This letter certifies that **Bandana Chettri** was entitled in the role of **Software Developer Intern** with **Sikharthy Infotech Pvt. Ltd.** during the period beginning from **2nd May, 2022** and ending **2nd August, 2022**.

During her time with **Sikharthy Infotech Pvt. Ltd.**, **Ms. Bandana Chettri** has remained dedicated to her work and responsibilities with our company. Her responsibilities included **Hard work, Dedication, and Quick learning ability**.

She has done a typical job while in this role. **Ms. Bandana** has always maintained a professional and courteous attitude and appearance while with our company.

We wish her all the best in her future career opportunities.

Please contact us for any additional information.

Yours sincerely,

SHILPI GHOSHAL

Director

SIKHARTHY INFOTECH PRIVATE LIMITED

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CHAPTER 1

INTRODUCTION

1.1. Overview

Blood Bank Management is a browser-based system that is designed to store, process, retrieve and analyse blood related information. This project aims at maintaining all the information pertaining to blood donors, different blood group available in this blood bank and help them to manage in a better way. This website provides the user or the donors a secured environment by accepting the log in ID's and password from the user.

This application allows the user to store the donor details as soon as the donor is registered. The admin will check the donor registered details if only he/ she is capable for donating the blood then only the donor can donate the blood at their registered centres. Before that the admin will send message or notification to donor registered mobile number or email.

1.2.1. General Overview of the Problem

The problems are:

- Tracking the database was complicated when the details are maintained manually.
- It is time consuming and space consuming.
- Scarcity of rare bloods.
- Unavailability of blood during emergency.
- Less awareness among people about blood donation and blood transfusion.

1.2. Feasibility study

Feasibility study aims to uncover the strength and weaknesses of the proposed project objectively and rationally. A feasibility study analyses the viability of a project to determine whether the project or venture is likely to succeed. The study is also designed to identify potential issues and problems that could arise while pursuing the project.

1.2.1. Technical feasibility

All the member of the group is familiar with PHP, so it helped us to work upon this project.

1.2.2. Schedule feasibility

The project has been chosen keeping in mind the scheduling of the project. The estimated time is feasible to complete the project.

1.3. Company Profile

Sikharthy Infotech Private Limited is a Web Development Company in Kolkata. Which provide Website Development. Website Designing, content Development, and Digital Marketing services in Kolkata. Sikharthy Infotech has a dedicated and highly-skilled team of resources for all kinds of assistance.

Sikharthy Infotech Private Limited has a Skill Development wing where students and freshers are getting skilled to join the IT sector. Today, many of the trained candidate are working with different MNCs like TCS, CTS, ITC Infotech and many

CHAPTER 2

LITERATURE REVIEW

2.1. Existing Systems

2.1.1. Blood Bank Management System- Isha Chawan, Sumedh Shinde

Introduction

India suffers from an annual deficit of two million units, as only 1% of the Indian population donates blood as stated by the World Health Organization (WHO). Due to substandard medical facilities and practices in many parts of the country, there have been cases of transmission of infectious diseases like AIDS. The need for blood is increasing along with its importance for treating various medical conditions. There are three main components of blood; plasma, platelet, and RBC/WBC. Especially during this covid pandemic, we're seeing a huge spike in the requirement of blood plasma from the patients who were recovered from covid-19 as their Convalescent Plasma now contains covid-19 antibodies.

Methodology:

The methodology chosen to develop the Blood bank system is the Rational Unified Process (RUP) from IBM developer works. RUP is a multi-layered adaptive process designed for software project teams that use their process elements as they scale up.

Problem:

- Cannot identify all the factors that affect blood. Like power failure, natural disasters, transport accidents.
- It is difficult to predict the uncertainty in the requirements for major road accidents.
- Large quantities of blood are being wasted.

2.1.2. Enhancing blood transfusion safety through the use of online blood bank management system -Shinas college of technology

Introduction

Blood transfusion safety remains an important public health concern in Oman. The availability of blood products of all blood types and the provision of its safety ensure public trust of its excellent healthcare system. However, lack of availability of these blood products and provision of unsafe blood products still impacts morbidity and mortality in the Sultanate. Through the use of online blood bank management system, blood transfusion safety is expected to be enhanced or improved. Risks on improper blood donors' documentation, and misplaced records can be minimized or totally avoided.

Methodology:

the researchers used both descriptive research and experimental research methodology. The study was descriptive because it describes the nature of the situations it exists at the time of study.

Problems:

- Blood donors and patients or recipients of blood donation are not system user, their registration or information will be encoded by the blood bank receptionists.

2.1.3 The Prospect and Significance of Lifeline: E-Blood Bank System- F.O. Umar, L. E. Ismaila, I. A. Umar

Introduction

the requirements for the blood are an important factor in the contemporary medicine and the health care. For every second there will be an individual who needs blood to save life. Blood transfusion is a lifesaving intervention that has an essential role in the total patient management within health care system. Over 4 million people are affected with infected with human immune virus by unsafe blood transfusion, 99% of 500,000 women die yearly with haemorrhage during pregnancy of childbirth

Methodology:

Data were collected using a self-administered survey distributed through the internet.

Problems:

- Integration of some additional functionalities in the system for better services.

CHAPTER 3

PROBLEM STATEMENT

3.1. Overview of Problem

The percentage of people donating blood is increasing day by day due to awareness to donate blood for those needed. The blood received have to be managed thoroughly so that there will be no negative effect to the blood receiver once they received blood. The use of paperwork in handling this process could lead to human error, many papers may end up in the wrong hands and doing this paperwork is time consuming. A few current systems lack that there is no interaction medium between blood bank and the public to announce the blood donations schedule. The blood donation schedule should be advertised to the public so that they are aware of the blood donation campaign period. Another challenge is that the project is aimed at setting up a donor and patients' information through password protected system, so that no outsiders can see the personal details of the donors or the patients.

3.2. MOTIVATION

- The primary concern of this Blood Bank Management System project is to make a system which will help any blood bank or hospitals to maintain the donors' details, blood groups etc.
- It will take lots of time to maintain the record manually.

3.2. OBJECTIVES

- Provides the searching facilities based on the various factors. Such as Blood, Blood Bank, Blood Group, stock.
- It tracks all the information of donor, blood cells, blood bank etc.
- Manage the information of donors.
- Manage the information of blood.

CHAPTER 4

METHODOLOGY

4.1. Entity relationship diagram

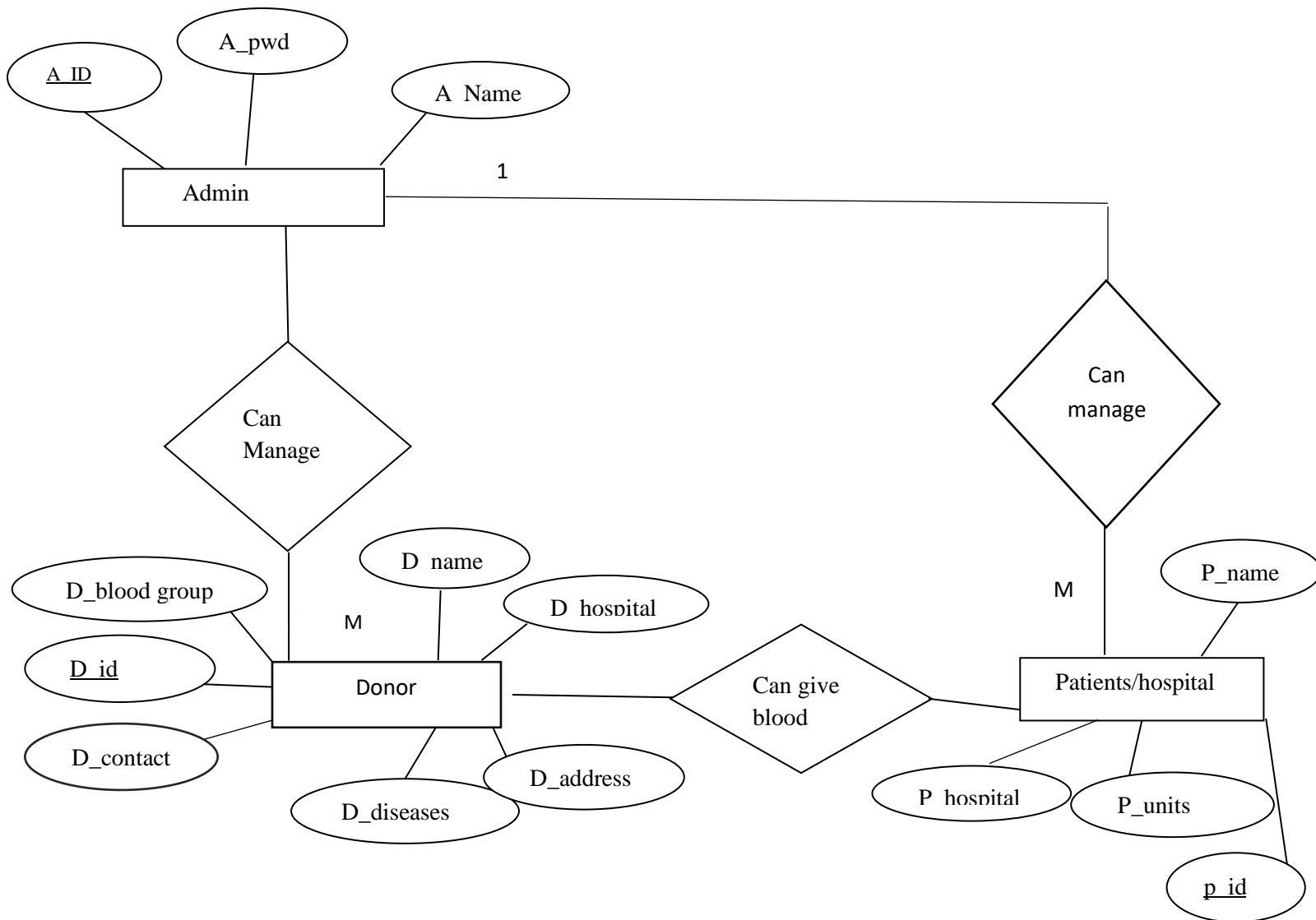


Fig: 4.1 Entity Relationship Diagram

In the Fig no 4.1 ER diagram of Blood bank management system

We have ER diagram that has 3 different entities and each entity have its own-own attributes and relationship between them.

The first entities we have are Admin and its attributes are: A_ID, A_name, A_password. Here A_ID is the “primary key”

The second entities we have are Donor and its attributes are: D_id, D_hospital, D_name, D_diseases, D_dob, D_blood group, D_address, D_contact. Here D_id is the primary key.

The relationship between both the entities is “can manage” that is admin can manage the donor and the patients/hospital.

The third entities we have is patients/hospital and its attributes are as follow: P_id, P_name, P_hospital, P_units. Here the primary key is P_id .

The relationship between an admin and hospital/patients’ entities is “can manage” that is admin can manage the patients or the hospitals.

The relation between the donor and patients is “can give blood” that is the donor can give blood to the patients/hospital.

4.2. Relational schema Diagram

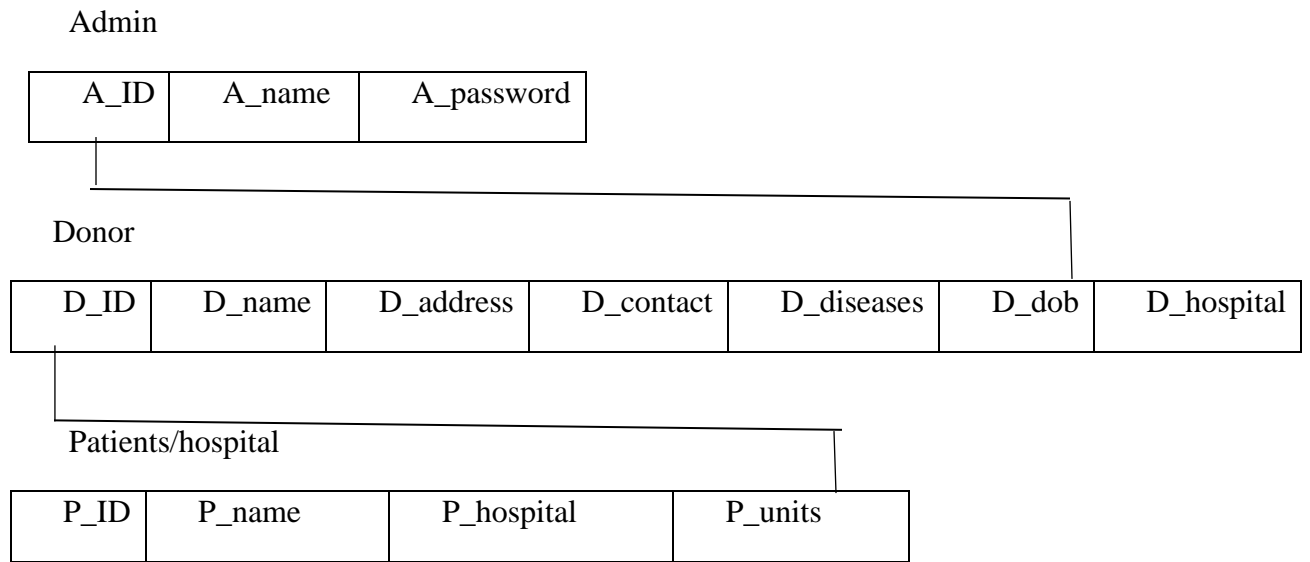


Fig: 4.2 Relational Schema Diagram

4.3. Data Flow Diagram

LEVEL 0 DFD (Context level)

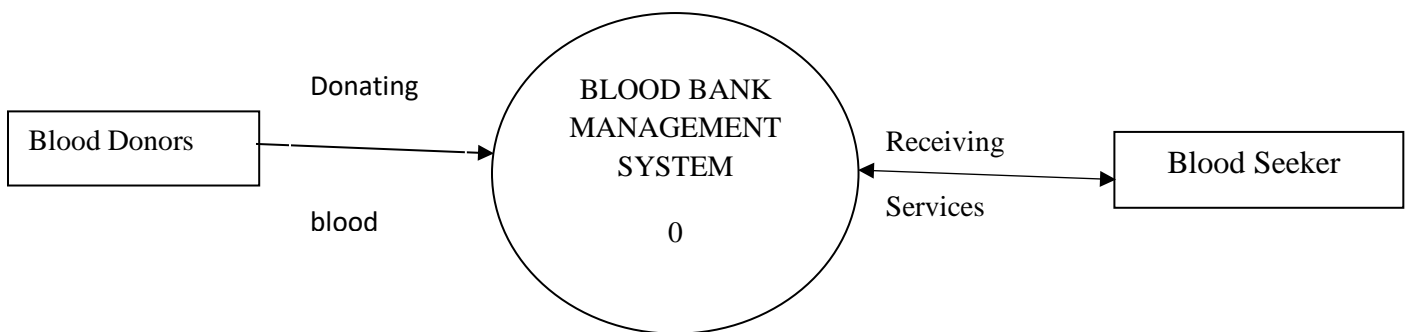


Fig :4.3 Data Flow Diagram

4.4. UML USE CASE DIAGRAM

Description: A use case diagram is a dynamic or behaviour diagram in UML. Use case diagrams model the functionality of a system using actors and use cases. Use cases are a set of actions, services, and functions that the system needs to perform. A UML diagram is a diagram based on the UML(Unified Modeling Language) with the purpose of visually representing a system along with its main actors, roles ,actions, artifacts or classes, in order to better understand, alter, maintain, or document information about the system.

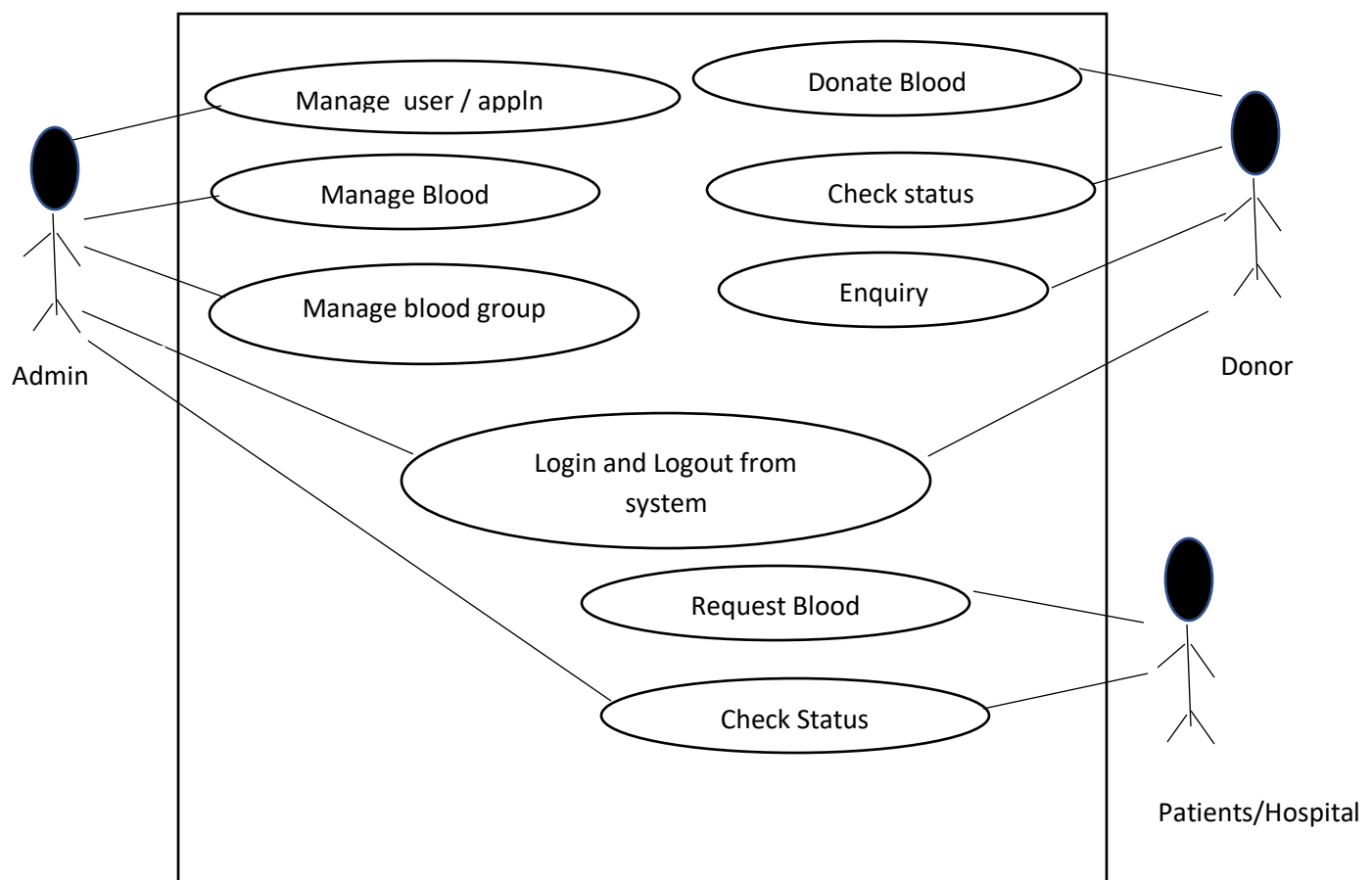


Fig: 4.4 UML Use Case Diagram

In the Fig: 4.4, we have the UML Use Case diagram where we have 3 Actor. They are:

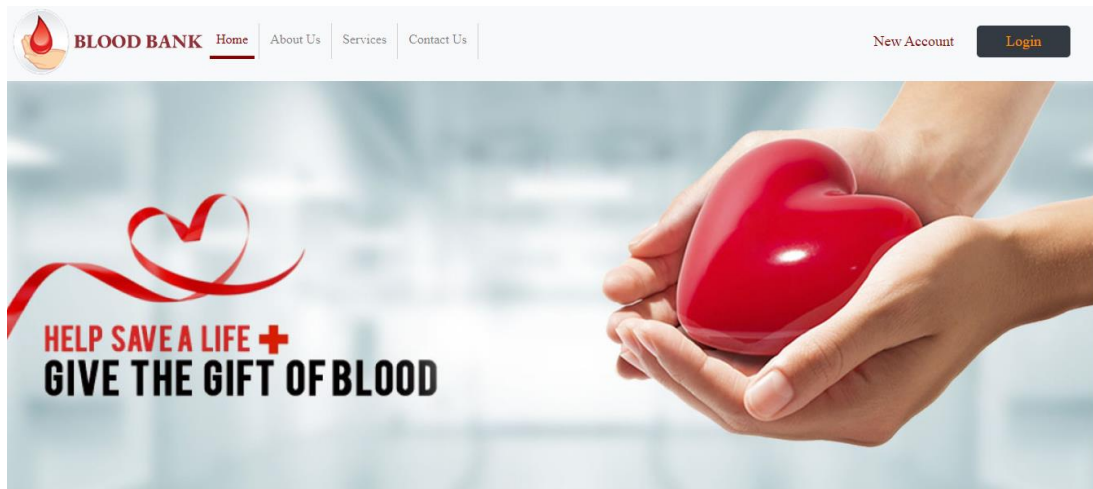
Admin: Admin can manage the full application, donor patients' data.

CHAPTER 5

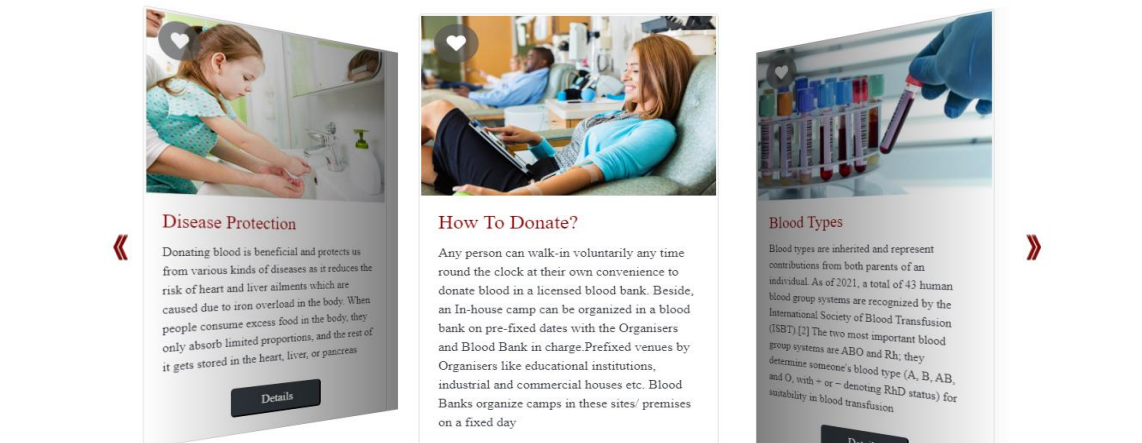
RESULT AND DISCUSSION

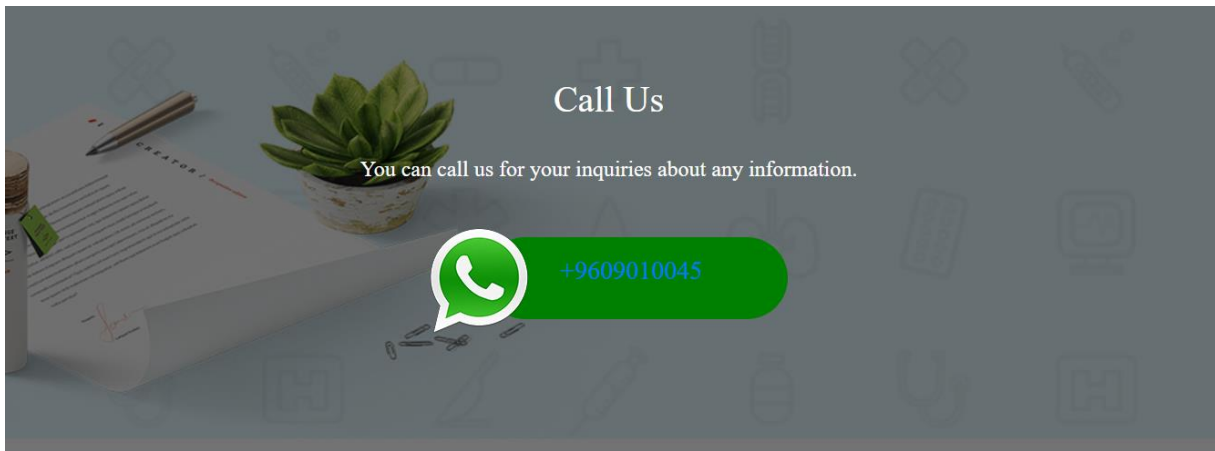
5.1. HOMEPAGE OF BLOOD BANK MANAGEMENT SYSTEM


DESCRIPTION: This is the homepage of blood bank management system that can be accessed by anyone who wishes to see about this website.



Articles







BLOOD BANK


Bandana Chettri | Developed in association with Sikharthy Infotech Pvt.Ltd.


Home


About Us

Services

Contact Us

 +8944880309


 bloodbank@.org

 Gangtok, Sikkim 737102

5.1.1. CONTACT US PAGE

DESCRIPTION: If you have any question about blood or blood bank, you can send direct message after entering the correct information like name, email, phone number, and finally send the message by clicking the send button. After that it will go to the admin panel where admin can see the message or questions.

[Home](#) / [Contact Us](#)

**BLOOD BANK**

Mobile: +8944880309
Pincode:737106
Email: InfoBloodBank@gmail.com

[Our Services](#)

Donate Your Blood And Inspire Others to Donate.
Blood Donation Is The Act Of Giving Blood To Someone Who Needs It. It Is Not Just About Giving Blood, But It Is An Act Of Kindness That Saves The Lives Of Hundreds Of People

Donate Blood

Be the reason for someone heartbeat and donate blood easily through registering in this website.

Request For Blood





You can easily request for blood just by registering it after that you can request for your needed blood.

Available

All the types of blood are available here .

Storage

All the types of blood group are stored here and if anyone is in need of it you can contact us through contact page.



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5.1.2: ABOUT US PAGE

About Us

Blood donation and transfusion service is an indispensable part of contemporary medicine and health care. Blood management has been recognized as a challenging task because of life threatening nature of blood products entails the punctilious administration due to its perishable nature & required timely processing and it also saves the life. Such great challenge has been considerably alleviated with the development of information and computer technology. e-Blood Bank is an integrated blood bank automation system. This web based mechanism inter connects all the Blood Banks of the State into a single network. Integrated Blood Bank MIS refers the acquisition, validation, storage and circulation of various live data and information electronically regarding blood donation and transfusion service. Such system is able to assemble heterogeneous data into legible reports to support decision making from effective donor screening to optimal blood dissemination in the field. Those electronic processes will help the public for easy access to the blood availability status of blood banks on finger tips; so that he can place a requisition of a particular blood group in nearby blood bank (Especially rare groups) save a valuable life.



BLOOD BANK

Home

About Us

Services



+8944880309



bloodbank@.org

5.1.3. REGISTRATION PAGE FOR NEW USER

DESCRIPTION: If you are new to this website and you haven't donated blood yet through this website. Firstly, you have to register through this form. After finishing registration through email and password you can login whenever you want.

The registration form is a dark gray rectangular box with rounded corners, centered on a dark background with large blue and orange circles. It has a title "Register Here" in white. Below the title are six input fields, each with a light gray placeholder text: "Name", "Address", "Email", "Phone Number", "Pin Code", and "Password". At the bottom of the form is a green button with the word "Register" in white.

Source code for registration page:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <!-- Design by foolishdeveloper.com -->

  <title>Blood Bank</title>

  <link rel="preconnect" href="https://fonts.gstatic.com">

  <link      rel="stylesheet"      href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.4/css/all.min.css">

  <link
href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;500;600&display=
swap" rel="stylesheet">

  <!--Stylesheet-->

  <style media="screen">

    *,

    *:before,

    *:after{

      padding: 0;

      margin: 0;

      box-sizing: border-box;

    }

    body{
```

```

    background-color: #080710;
}

.background{

    width: 430px;

    height: 520px;

    position: absolute;

    transform: translate(-50%,-50%);

    left: 50%;

    top: 50%;

}

.background .shape{

    height: 200px;

    width: 200px;

    position: absolute;

    border-radius: 50%;

}

.shape:first-child{

    background: linear-gradient(

        #1845ad,

        #23a2f6

    );

    left: -80px;

    top: -80px;

```

```
}  
  
.shape:last-child{  
  
    background: linear-gradient(  
  
        to right,  
  
        #ff512f,  
  
        #f09819  
  
    );  
  
    right: -30px;  
  
    bottom: -80px;  
  
}  
  
form{  
  
    height: 520px;  
  
    width: 400px;  
  
    background-color: rgba(255,255,255,0.13);  
  
    position: absolute;  
  
    transform: translate(-50%,-50%);  
  
    top: 50%;  
  
    left: 50%;  
  
    border-radius: 10px;  
  
    backdrop-filter: blur(10px);  
  
    border: 2px solid rgba(255,255,255,0.1);  
  
    box-shadow: 0 0 40px rgba(8,7,16,0.6);  
  
    padding: 30px 35px;
```

```
}  
  
form *{  
  
    font-family: 'Poppins',sans-serif;  
  
    color: #ffffff;  
  
    letter-spacing: 0.5px;  
  
    outline: none;  
  
    border: none;  
  
}
```

```
form h3{  
  
    font-size: 32px;  
  
    font-weight: 500;  
  
    line-height: 42px;  
  
    text-align: center;  
  
}
```

```
label{  
  
    display: block;  
  
    margin-top: 30px;  
  
    font-size: 16px;  
  
    font-weight: 500;  
  
}
```

```
input{  
  
    display: block;
```



```
height: 50px;

width: 100%;

background-color: rgba(255,255,255,0.07);

border-radius: 3px;

padding: 0 10px;

margin-top: 8px;

font-size: 14px;

font-weight: 300;

}

::placeholder{

    color: #e5e5e5;

}

button{

    margin-top: 30px;

    width: 100%;

    background-color: #ffffff;

    color: #080710;

    padding: 10px 0;

    font-size: 18px;

    font-weight: 600;

    border-radius: 5px;

    cursor: pointer;

}
```

```
.social{

    margin-top: 30px;

    display: flex;

}

.social div{

    background: red;

    width: 150px;

    border-radius: 3px;

    padding: 5px 10px 10px 5px;

    background-color: rgba(255,255,255,0.27);

    color: #eaf0fb;

    text-align: center;

}

.social div:hover{

    background-color: rgba(255,255,255,0.47);

}

.social .fb{

    margin-left: 25px;

}

.social i{

    margin-right: 4px;

}
```

```

</style>

</head>

<body>

<?php

include("admin/include/db.php");

?>

<div class="background">

    <div class="shape"></div>

    <div class="shape"></div>

</div>

<form      name="registration"      class="registartion-form"      method="POST"
action="query/reginsert.php">

    <h3>Register Here</h3>

    <input type="text" placeholder="Name" name="name" id="username" required>

    <input type="text" placeholder="Address"      name="address"      id="password"
required>

    <input type="email" placeholder="Email" name="email" id="password" required>

    <input type="text" placeholder="Phone Number" name="number" id="password"
required>

    <input      type="submit"      name="submit" class="submit"      value="Register"
style="background-color: green;width:50%;margin-left:70px"/>

</form>

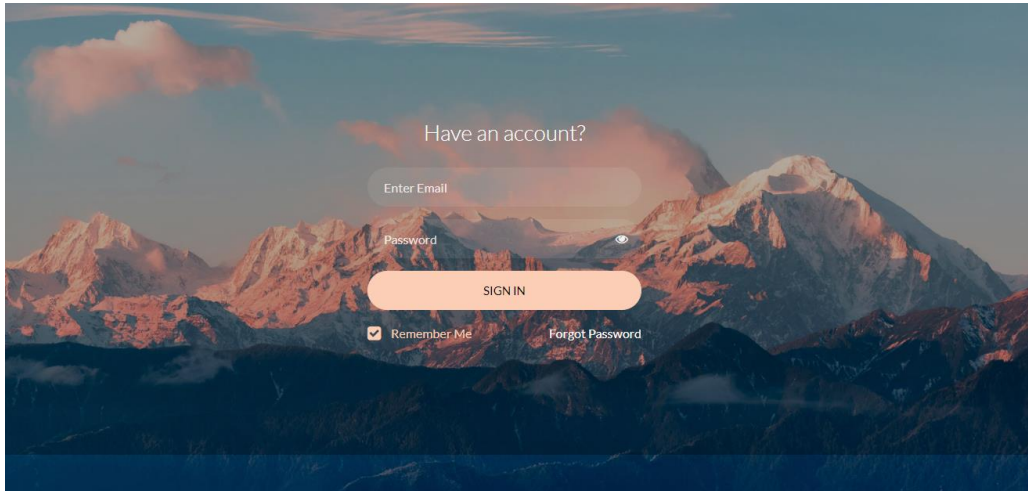
</body>

</html>

```

5.1.4. LOGIN PAGE

DESCRIPTION: After registering, your login page will look like this. In login page you have to enter your registered email and password. After entering your correct email and password it will be forwarded to the second homepage where you can find the donation form.



Source code for login page:

```
<!Doctype html>

<html lang="en">

  <head>

    <title>Login 10</title>

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <link
href="https://fonts.googleapis.com/css?family=Lato:300,400,700&display=swap"
rel="stylesheet">

    <link          rel="stylesheet"          href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">
```

```

<link rel="stylesheet" href="csss/style.css">

</head>

<body class="img js-fullheight" style="background-image: url(imgs/bg.jpg);">

<section class="ftco-section">

    <div class="container">

        <div class="row justify-content-center">

            <div class="col-md-6 text-center mb-5">

                </div>

            </div>

            <div class="row justify-content-center">

                <div class="col-md-6 col-lg-4">

                    <div class="login-wrap p-0">

                        <h3 class="mb-4 text-center">Have an account?</h3>

                        <form action="includes/userlog.php" method="POST" >

                            <div class="form-group">

                                <input type="text" class="form-control" name="email"
placeholder="Enter Email" required>

                            </div>

                            <div class="form-group">

                                <input id="password-field" name="password" type="password"
class="form-control" placeholder="Password" required>

                                <span toggle="#password-field" class="fa fa-fw fa-eye field-icon toggle-
password"></span>


```

```
</div>

<div class="form-group">

    <button type="submit" name="submit" class="form-control btn btn-
primary submit px-3">Sign In</button>

</div>

<div class="form-group d-md-flex">

    <div class="w-50">

        <label class="checkbox-wrap checkbox-primary">Remember
Me

<input type="checkbox" checked>

        <span class="checkmark"></span>

        </label>

    </div>

    <div class="w-50 text-md-right">

        <a href="#" style="color: #fff">Forgot Password</a>

    </div>

</div>

</form>


</div>

</div>

</div>

</div>

</div>

</div>

</section>


<script src="js/jquery.min.js"></script>

<script src="js/popper.js"></script>
```



```
<script src="js/bootstrap.min.js"></script>
```

```
<script src="js/main.js"></script>
```

```
</body>
```

```
</html>
```

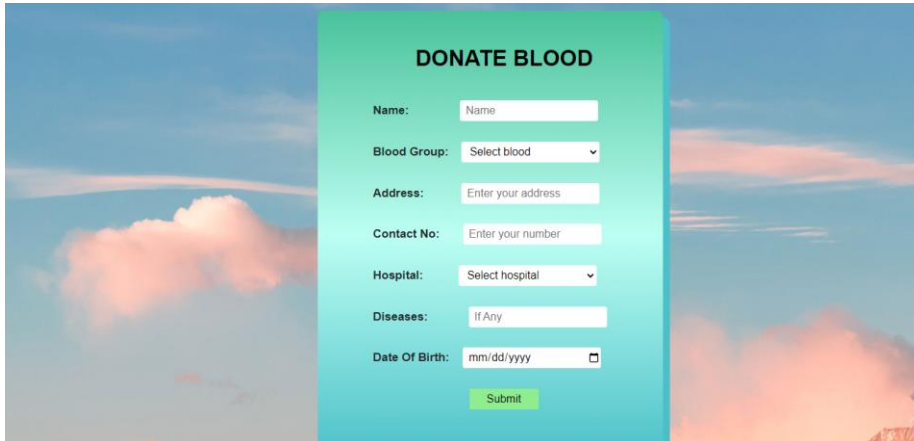
5.2. SECOND HOMEPAGE

DESCRIPTION: After completing all the registration process. You can find the donation form where you have to submit the needed information that is required, from here you can also request for blood.



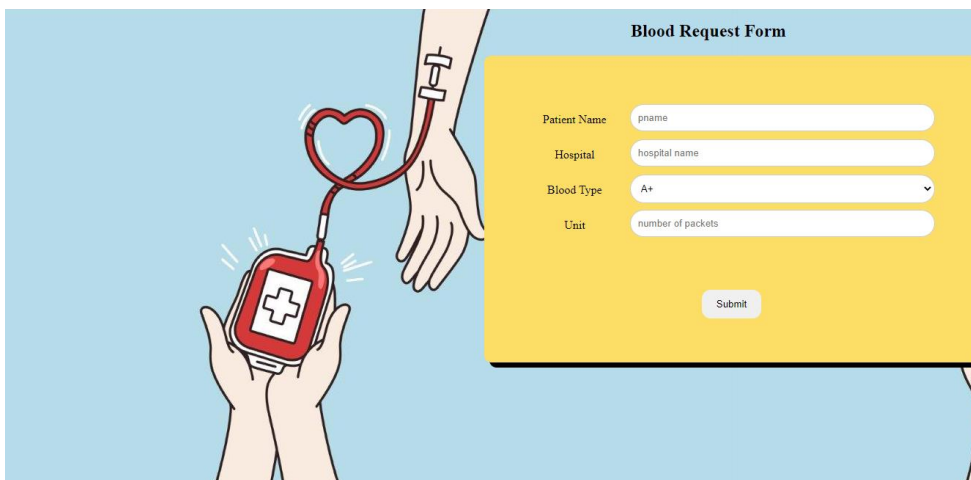
5.2.1. DONATION FORM

DESCRIPTION: For filling the donation form you have to submit all the information correctly like your name, which blood group you are, your address, contact number, in which hospital you want to donate blood, diseases, your date of birth and finally you can submit the form.

A screenshot of a web form titled "DONATE BLOOD" set against a background of a sunset sky. The form is a light blue rectangle with a white border. It contains the following fields: "Name:" with a text input field containing the placeholder "Name"; "Blood Group:" with a dropdown menu showing "Select blood"; "Address:" with a text input field containing the placeholder "Enter your address"; "Contact No:" with a text input field containing the placeholder "Enter your number"; "Hospital:" with a dropdown menu showing "Select hospital"; "Diseases:" with a text input field containing the placeholder "If Any"; and "Date Of Birth:" with a date picker showing "mm/dd/yyyy". At the bottom of the form is a green "Submit" button.

5.2.2. BLOOD REQUEST FORM

DESCRIPTION: You can send your blood request through this form.

A screenshot of a web form titled "Blood Request Form" overlaid on an illustration of a blood donation. The illustration shows a person's arm with a blood pressure cuff and a heart-shaped tube connected to a red blood bag with a white cross. The form is a yellow rectangle with a black border. It contains the following fields: "Patient Name" with a text input field containing the placeholder "pname"; "Hospital" with a text input field containing the placeholder "hospital name"; "Blood Type" with a dropdown menu showing "A+"; and "Unit" with a text input field containing the placeholder "number of packets". At the bottom of the form is a grey "Submit" button.

Source code of blood request form:

```
<?php
?>

<!DOCTYPE html>

<html>

<head>

<body class="img js-fullheight" style="background-image: url(../imgs/n.jpg);">

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

<style>

* {

    box-sizing: border-box;

}

input[type=text], select, textarea {

    width: 100%;

    padding: 10px;

    border: 1px solid #ccc;

    border-radius: 40px;

    resize: vertical;

}

label {

    padding: 12px 12px 12px 0;

    display: inline-block;

}
```

```
input[type=submit] {  
  background-color:  
  color: black;  
  padding: 12px 20px;  
  border: none;  
  border-radius: 12px;  
  cursor: pointer;  
  float: center;  
}
```

```
input[type=submit]:hover {  
  background-color: slategray;  
}
```

```
.container {  
  border-radius: 10px;  
  background-color:#fcde67;  
  padding: 60px;  
  width: 50%;  
  float: right;  
  box-shadow: 7px 7px;  
}
```

```
.col-25 {  
  float: left;  
  width: 25%;
```

```

    margin-top: 6px;
}

.col-75 {
    float: left;
    width: 75%;
    margin-top: 6px;
}

/* Clear floats after the columns */
.row:after {
    content: "";
    display: table;
    clear: both;
}

/* Responsive layout - when the screen is less than 600px wide, make the two columns
stack on top of each other instead of next to each other */
@media screen and (max-width: 600px) {
    .col-25, .col-75, input[type=submit] {
        width: 80%;
        margin-top: 0;
    }
}

</style>
</head>
<body>

```



```

<div class="row">

  <div class="col-25">

    <label for="country">Blood Type</label>

  </div>

  <div class="col-75">

    <select id="blood" name="blood">

      <option value="A+">A+</option>

      <option value="B+">B+</option>

      <option value="AB+">AB+</option>

      <option value="O+">O+</option>

      <option value="O-">O-</option>

      <option value="AB-">AB-</option>

    </select>

  </div>

</div>

<div class="row">

  <div class="col-25">

    <label for="subject">Unit</label>

  </div>

  <div class="col-75">

    <input type="text" id="pname" name="unit" placeholder="number of packets">

    <br><br><br><br><br>

  </div>

</div>

<div class="row">

  <center>

    <input type="submit" name="submit" value="Submit">

  </center>

```

```
</div>

</form>

</center>

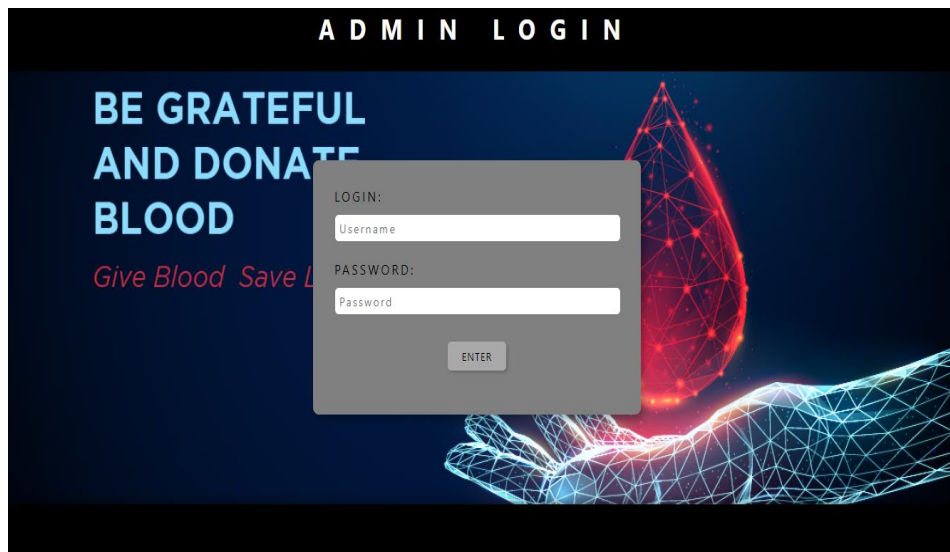
</div>
```

```
</body>

</html>
```

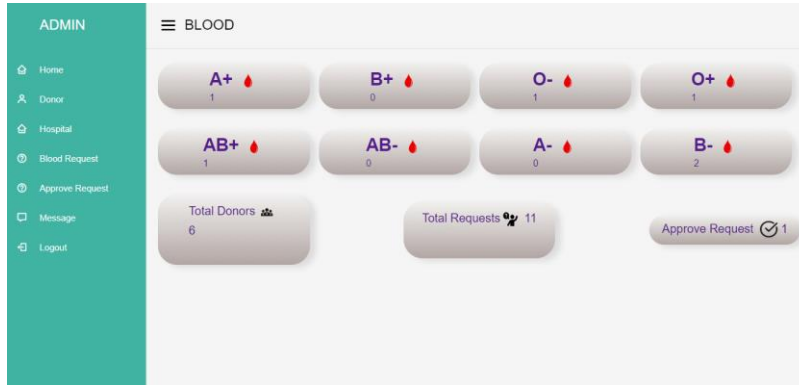
5.3 ADMIN LOGIN

DESCRIPTION: This is our admin login page where you have to enter your correct username and password. After submit it will open the main admin dashboard.



5.3.1. ADMIN DASHBOARD

DESCRIPTION: These are the admin dashboards where the admin will manage all the information related to this blood bank management system. All the works are done by the admin only. Admin can see the total numbers of donors and blood request.



Source code of admin dashboard:

```
<section class="home-section">

  <nav>

    <div class="sidebar-button">

      <i class='bx bx-menu sidebarBtn'></i>

      <span class="dashboard">BLOOD</span>

    </div>

  </nav>

  <div class="home-content">

    <div class="overview-boxes">

      <div class="box">

        <div class="right-side">
```

```
<!-- <div class="number">200</div>-->
```

```
<a href="">
```

```
<div class="box-topic"><h1>A+
```

```
        </div></h1>
```

```
<?php
```

```
    $query = "SELECT blood FROM form WHERE blood='A+'";
```

```
    $data = mysqli_query($conn,$query);
```

```
    $result = mysqli_num_rows($data);
```

```
    if($data = 1)
```

```
    {
```

```
        echo "$result";
```

```
    }
```

```
    else{
```

```
        echo "No Records";
```

```
    }
```

```
    ?>
```

```
</a>
```

```
</div>
```

```
</div>
```

```

<div class="box">

    <div class="right-side">

        <!-- <div class="number">10</div>-->


        <a href="">

            <div class="box-topic" ><h1>B+ </div></h1>

            <?php

                $query = "SELECT blood FROM form WHERE blood='B+'";

                $data = mysqli_query($conn,$query);

                $result = mysqli_num_rows($data);

                if($data = 1)

                {

                    echo "$result";

                }

                else{

                    echo "No Records";

                }

            ?>

        </a>

        </a>

    </div>

</div>

```

```

<div class="box">

    <div class="right-side">

        <!-- <div class="number">200</div>-->


        <a href="">

            <div class="box-topic"><h1>O- </div></h1>

            <?php

                $query = "SELECT blood FROM form WHERE blood='O-'";

                $data = mysqli_query($conn,$query);

                $result = mysqli_num_rows($data);

                if($data = 1)

                {

                    echo "$result";

                }

                else{

                    echo "No Records";

                }

            ?>

        </a>

    </a>

</div>

</div>

<div class="box">

```

```

<div class="right-side">

    <!-- <div class="number">200</div>-->


    <a href="">

        <div class="box-topic"><h1>O+

            </div></h1>

            <?php

                $query = "SELECT blood FROM form WHERE blood='O+'";

                $data = mysqli_query($conn,$query);

                $result = mysqli_num_rows($data);

                if($data = 1)

                {

                    echo "$result";

                }

                else{

                    echo "No Records";

                }

            ?>

        </a>

    </a>


</div>

</div>

```


<div class="box">

<div class="right-side">

<!-- <div class="number">200</div>-->

<div class="box-topic"><h1>AB+

</div></h1>

<?php

\$query = "SELECT blood FROM form WHERE blood='AB+'";

\$data = mysqli_query(\$conn,\$query);

\$result = mysqli_num_rows(\$data);

if(\$data = 1)

{

echo "\$result";

}

else{

echo "No Records";

}

?>

</div>

</div>

<div class="box">

<div class="right-side">

<!-- <div class="number">200</div>-->

<div class="box-topic"><h1>AB- </div></h1>

<?php

\$query = "SELECT blood FROM form WHERE blood='AB-';

\$data = mysqli_query(\$conn,\$query);

\$result = mysqli_num_rows(\$data);

if(\$data = 1)

{

echo "\$result";

}

else{

echo "No Records";

}

?>

</div>

</div>

<div class="box">

```

<div class="right-side">

<!-- <div class="number">200</div>-->


<a href="">

    <div class="box-topic"><h1>A-    

    </div></h1>

    <?php

$query = "SELECT blood FROM form WHERE blood='A-'";

$data = mysqli_query($conn,$query);

$result = mysqli_num_rows($data);

if($data = 1)

{

    echo "$result";

}

else{

    echo "No Records";

}

?>

</a>

</a>

    </div>

</div>

<div class="box">

    <div class="right-side">

        <!-- <div class="number">200</div>-->

```



```

<a href="">

    <div class="box-topic"><h1>B-    </div></h1>

    <?php

        $query = "SELECT blood FROM form WHERE blood='B-'";

        $data = mysqli_query($conn,$query);

        $result = mysqli_num_rows($data);

        if($data = 1)

        {

            echo "$result";

        }

        else{

            echo "No Records";

        }

    ?>

</a>

</div>

</div>

<br><br><br><br><br><br><br>

<div class="box">

    <div class="right-side">

        <!-- <div class="number">200</div>-->

        <a href="adonor.php">

```

```

        <div class="box-topic">Total Donors

        <br>

        <?php
$query = "select * from form";
$data = mysqli_query($conn,$query);
$total = mysqli_num_rows($data);
if($data =1)
{
    echo "$total";
}
else{

    echo "No Records";
}
?>

</div><br><br>

</a>

</div>

</div>

<div class="box">

<div class="right-side">

<!-- <div class="number">200</div>-->

```

```

<a href="abreq.php">

    <div    class="box-topic">Total    Requests

```

```

<?php

$query = "select * from hosrequest";

$data = mysqli_query($conn,$query);

$total = mysqli_num_rows($data);

if($data =1)

{

    echo "$total";

}

else{

    echo "No Records";

}

?></div><br><br>

```

```

</a>

</div>

</div>

<div class="box">

    <div class="right-side">

        <!-- <div class="number">200</div>-->

        <a href="approve.php">

            <div class="box-topic">Approve Request &nbsp;   <?php

```

```

$query = "SELECT status FROM form WHERE status='approve'";

$data = mysqli_query($conn,$query);

$total = mysqli_num_rows($data);

if($data =1)

{

    echo "$total";

}

else{

    echo "No Records";

}

?>

</a>

```

```

</div>

```

```

</section>

```

```

<script>

```

```

    let sidebar = document.querySelector(".sidebar");

let sidebarBtn = document.querySelector(".sidebarBtn");

```

```

sidebarBtn.onclick = function() {

    sidebar.classList.toggle("active");

    if(sidebar.classList.contains("active")){

        sidebarBtn.classList.replace("bx-menu" ,"bx-menu-alt-right");

    }else

        sidebarBtn.classList.replace("bx-menu-alt-right", "bx-menu");

    }

</script>

</body>

</html>

```

Donor

Home
Donor
Logout

Donor details

DONOR DETAILS:

Name	Blood Group	Address	Contact	Hospital	Diseases	DOB	Action	Operations
Bandana	AB+	Pakyong	34567456756	STNM	no	2022-08-03	Delete	Approve Reject
Suchana	B-	Namchi	4567891230	Manipal	no	2022-08-03	Delete	Approve Reject
Srijana	O-	Rangpo	7894561258	Manipal	no	2022-08-02	Delete	Approve Reject
Anuma	O+	Siliguri	456789567	STNM	no	2022-08-03	Delete	Approve Reject
sd	B-	x	z	Manipal	x	2022-08-25	Delete	Approve Reject

Admin

- Home
- Donor
- Approve Request
- Message
- Logout

Approve Blood Request

APPROVE DETAILS:

Name	Blood Group	Address	Contact	Hospital	Diseases	DOB
Srijana	O-	Rangpo	7894561258	Manipal	no	2022-08-02

Admin

- Home
- Blood Request
- Approve Details
- Message
- Logout

Blood Request

REQUEST DETAILS:

Patient Name	Hospital Name	Blood Type	Blood Unit	Action	Operation
Priya	Adarsh Nursing Home	A+	23ml	Delete	Approve Reject
Bandana	CNCI	A+	12ml	Delete	Approve Reject
Sukra	AGS	A+	12ml	Delete	Approve Reject
Abikesar	Neutia	A+	2ml	Delete	Approve Reject

Admin

Home

Blood Request

Approve Details

Message

Logout

Blood Request

APPROVE DETAILS:

Patient Name	Hospital Name	Blood Type	Blood Unit
bandana	Basu Clinic	B+	7ml
anisha	manipal	AB+	234ml
Ongmu	Soreng	O+	2lml
Bandana	Soreng	O+	34ml
Nisha	manipal	O-	34ml



Admin

Home

Logout

Message

Messages:

Name	Email	Phone No	Message	Operations
bandana	bann@123	234567890	help	
Simran	simran@123	7894561235	i need O+ blood urgently.	

Future scope of the project

- Application can be further developed to include more features of user-friendly interfaces.
- Future developers may extend this project to include the generation of donation slips for donors. In addition, various function can be added.
- Ability to sort donor and patients' queries.
- Improve the effectiveness.
- To integrate this blood bank management system with other health care provider centre, hospital, blood banks.
- Notification through SMS and email.

CHAPTER 6

SUMMARY AND CONCLUSION

6.1. Summary of Achievement

We have designed an application that can perform different functionalities and meet the requirements.

Some of the highlights of our application are:

- User friendly: simple and easy to use.
- Reliable, secure.

6.1.2. Difficulties encountered during project

The entire development of project encountered a little problem. The prime being learning the new functionalities of the application on which the development of the project is based on. A lot of detailed study was required the initial phases of the project development.

6.1.3. Limitation of the project

Chat between donor and admin is not provided.

6.2. CONCLUSION

We have successfully designed and developed a proven website to make it easy for any user or person in need of blood to request the blood they need. Those who wish to donate blood can also register to donate blood on the website. Blood Bank management system will provide an effective way of managing the different types of blood available. It manages all the information about the donors in a systematic way so there is no data redundancy. Web based blood bank management system provides convenience, efficiency and security to the users and blood bank compared to manual system. It was found out that manual system has many disadvantages that disappoint and dissatisfy the users. Indeed, online blood bank management system make work easy, and ensure fast retrieval of data when needed. The system will eliminate all the problems encountered in the manual way which will help the hospital or the blood banks to work on a better way. The system was implemented using web-based technologies which include HTML, CSS, JS, Bootstrap for frontend and for backend I have used MySQL and PHP.

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