LOVELY PROFESSIONAL UNIVERSITY

Transforming Education Transforming India

PROJECT REPORT

(PROJECT TERM JANUARY-APRIL 2022)

BLOOD DONATION

SUBMITTED BY

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COURSE CODE- CSE326

UNDER THE GUIDANCE OF - **Ms. UPINDER KAUR**

DECLARATION

We hereby declare that the project work entitled ("**BLOOD DONATION**") is an authentic record of our own work carried out as requirements of Project in Computer Science and Engineering from Lovely Professional University, Phagwara, under the guidance of Ms. UPINDER KAUR, during Jan to April 2022. All the information furnished in this project report is based on our own intensive work and is genuine.

<u>ACKNOWLEDGMENT</u>

*We would like to express our special thanks of gratitude to my teacher Ms. UPINDER KAUR, who gave us the golden opportunity to do this wonderful project of "**BLOOD DONATION**", who also helped us in completing our project. We came to know about so many new things. We are really thankful to them. Secondly, we would also like to thanks our parents and friends who helped us a lot in finalizing this project within the limited time frame.*

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ABSTRACT

Blood donation is a browser-based system that is designed to store, process, retrieve and analyze information concerned with the administrative and inventory management within a blood bank. This project aims at maintaining all the information pertaining to blood donors, different blood groups available in each blood bank and help them manage in a better way. Aim is to provide transparency in this field, make the process of obtaining blood from a blood bank hassle free and corruption free and make the system of blood bank management effective. Our client is not interested in blood stocking instead we are stocking blood donors' information. The donors who are interested in donating blood has to register in the database. There is no storage of blood so no complications in the project. The software is fully integrated with CRM (customer relationship management) as well as CMS (content management system) solution. It is developed in a manner that is easily manageable, time saving and relieving one from manual works. The requirement of the blood has to be requested and we supply the information of the donor. The donors can update their status whether they are available or not.

<u>INTRODUCTION</u>

Blood Donation System is a web-based system that can assists the information of blood bag during its handling in the blood bank. With this system, the user of this system can key in the result of blood test that has been conducted to each of the blood bag received by the blood bank. The result of test will indicate whether the blood bag can be delivered to patient or not. From this system, there are several types of report that can be generated such as blood stock report, donor's gender report and the total of blood donation according to months and year. The system also can give the information to the donor about blood analysis test result for each time the donor makes contribution. Hence, BBMS will make the blood bank stock more systematic and manageable.

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. There are four phases involved in this methodology. They are Inception, Elaboration, Construction, and Transition. Overall, these phases primarily include important use cases, the scope of the project, initial costing, development process including depth and breadth of prototype success factors, risks involved, coding, testing, and debugging. Thus, the primary objective is to build the software system and later on 'transit 'the system from development to production or application systematically. Maintenance and beta testing are also key aspects of this system. The development time required is also greatly reduced due to the re-use of software components. It also saves time in backend integration. This methodology ensures the stability and adaptability of core system applications.

PROJECT OBJECTIVE

➢ *To provide a means for the blood bank to publicize and advertise blood donation programs.*

➢ *To improve the efficiency of blood stock management by alerting the blood bank staffs when the blood quantity is below its par level or when the blood stock has expired.*

➢ *To provide an efficient donor and blood stock management functions to the blood bank by recording the donor and blood details.*

➢ *To allow the probable recipients to make search and match the volunteer donors, and make request for the blood.*

PSEUDO CODE

VS CODE: -

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="CSS/Style H.css">
    <title>Blood Donation | A Social Initiative | Mankind &amp; Environment
Efflorescence Trust | INDIA</title>
</head>
<body>
    <nav class="navbar h-nav-resp">
        <ul class="nav-list v-class-resp">
            <div class="logo">
                <img src="images\Blood Logo www.freepik.jpg" alt="logo">
            </div>
            <li><a href="#Home">Home</a></li>
            <li><a href="#Why Donate Blood?">Why Donate Blood?</a></li>
            <li><a href="#Eligibilty">Eligibilty</a></li>
            <li><a href="#Refer a Friend">Refer a Friend</a></li>
            <li><a href="#Contact Us">Contact Us</a></li>
            <li><a href="New folder/login.html">Register </a></li>
        </ul>
        <div class="rightNav v-class-resp">
            <input type="text" name="search" id="search">
            <button class="btn btn-sm">Search</button>

        </div>

        <div class="burger">
            <div class="line"></div>
            <div class="line"></div>
            <div class="line"></div>
        </div>
    </nav>

    <section class="background firstSection" id="Home">
        <div class="box-main">
            <div class="firstHalf">
```

```html
                    <p class="text-Big">"Blood Donation will cost you nothing, but it
will save a life!"</p>
                    <br>
                    <p class="text-Small">A blood donation occurs when a person
voluntarily has blood drawn and used for transfusions and/or made into
biopharmaceutical medications by a process called fractionation (separation of
whole blood components).</p>
                    <div class="buttons">
                        <button class="btn"><a href="New
Folder/login.html">Register</a></button>
                        <button class="btn"><a href="New
Folder/login.html">LogIn</a></button>
                    </div>
                </div>

                <div class="secondHalf">
                    <img src="images/wp4323495-blood-donation-wallpaper.jpg"
alt="blood image">
                </div>
            </div>

        </section>

        <section class="Section " id="Why Donate Blood?" >

            <div class="info-paras">
            <p class="donate-Head headtext"> Why Donate Blood? </p>
            <p class="text-donate text-Small">Donating blood has benefits for your
emotional and physical health. According to a report by the Mental Health
Foundation, helping others can:
                <br>
                <br>
                <ul class="text-donate text-Small">
                <li>reduce stress</li>
                <li>improve your emotional well-being</li>
                <li>benefit your physical health</li>
                <li>help get rid of negative feelings</li>
                <li>provide a sense of belonging and reduce isolation</li><br>
                </ul>
            Research has found further evidence of the health benefits that come
specifically from donating blood.</p>
            </div>

            <div class="Thumbnail">
```

```html
            <img src="images/Why section.jpg" alt="what is blood"
class="imgFluid">
        </div>
    </section>

    <section class="Section secLeft" id="Eligibilty">

        <div class="info-paras">
        <p class="eligible-Head headtext"> Eligibilty</p>
        <p class="text-eligible text-Small">Eligibility for donating blood is as
follows:
            <br>

            <ul class="text-eligible text-Small">
            <li>Age should be between 18 and 60 years.</li>
            <li>You should not be suffering, or had history of cancer.</li>
            <li>You should not be suffering from any blood clotting disorder,
such as haemophilia.</li>
            </ul>
            <br>
            <p class="text-donate text-Small">If you are eligible, you may
register as a blood donor, but at the time of donating blood, follow the
instructions mentioned below:
            <br>
            <ul class="text-eligible text-Small">
            <li>You must be at least 17 years old to donate to the general blood
supply.</li>
            <li>Your weight should be 45kg or above</li>
            <li>Minimum haemoglobin count should be 12.5gm.</li>
            <li>Pulse rate should be between 50 and 100 per minute, without any
irregularities.</li>
            <li>Blood pressure should be, diastolic 50 to 100 mm Hg and Systolic
100 to 180 mm Hg.</li>
            <li>Body temperature should be normal and oral temperature should not
exceed 37.5 degree Celsius.</li>
            <li>Should not have undergone any treatment for rabies or received
Hepatitis B immune globulin within the past</li>
            </ul></p>
            <br>
        </div>

        <div class="thumbnail">
                <!-- <img src="https://source.unsplash.com/900x900/?blood
donation,donor" alt="what is blood" class="imgFluid"> -->
```

```html
                <img src="images/Eligibilty section.jpg" alt="what is blood"
class="imgFluid">
        </div>
    </section>


    <section class="Section" id="Refer a Friend">

        <div class="info-paras">
        <p class="refer-Head headtext">Refer a Friend</p>
        <p class="text-refer text-Small">
            <div class="form">
                <input class="form-input" type="text" name="name" id="name"
placeholder="Enter Name">
                <input class="form-input" type="text" name="phone" id="phone"
placeholder="Enter Phone">
                <input class="form-input" type="text" name="email" id="email"
placeholder="Enter Email">
                <input class="form-input" type="text" name="bg" id="bg"
placeholder="Enter Blood Group">
                <button class="btn btn-sm btn-dark"> Submit </button>
            </div>
        </p>
        </div>


        <div class="thumbnail">
                <img src="https://source.unsplash.com/600x600/?friend,group"
alt="About us" class="imgFluid">
                <!-- <img src="images/About us.jpg" alt="About us"
class="imgFluid"> -->


        </div>
    </section>



    <section class="contact" id="Contact Us">
    <h2 class="text-Center">Contact Us</h2>
    <div class="form">
        <input class="form-input" type="text" name="name" id="name"
placeholder="Enter Your Name">
        <input class="form-input" type="text" name="phone" id="phone"
placeholder="Enter Your Phone">
        <input class="form-input" type="text" name="email" id="email"
placeholder="Enter Your Email">
        <textarea class="form-input" name="text" id="" cols="30" rows="10"
placeholder="Elaborate Your Concern"></textarea>
```

```html
            <button class="btn btn-sm btn-dark"> Submit </button>
        </div>
    </section>

    <footer>
        <p class="text-footer background">
            Copyright &copy; 2027 - All rights reserved
        </p>
    </footer>

    <script src="JS/resp.js"></script>

</body>
</html>
```

CSS:-

```css
@import
url('https://fonts.googleapis.com/css2?family=Ubuntu:wght@400;500&display=swap');
@import
url('https://fonts.googleapis.com/css2?family=Ubuntu:ital@1&display=swap');
*{
    margin: 0;
    padding: 0;
}

.logo{
    width: 20%;
    display: flex;
    justify-content: center;
    align-items: center;
}

.logo img{
    width: 26%;
    border: 3px #f30303;
    border-radius: 50px;
    margin: 5px;

}

.navbar{
```

```css
    display: flex;
    align-items: center;
    justify-content: center;
    position: sticky;
    top: 0;
    cursor: pointer;
    background-color: black;
    transition: opacity 50% 2s;
}

.nav-list{
    width: 70%;
    /* background-color: black; */
    display: flex;
    /* justify-content: center; */
    align-items: center;
}

.nav-list li{
    list-style: none;
    padding: 26px 10px;
    font-family: 'Ubuntu', sans-serif;
}

.nav-list li a{
    text-decoration: none;
    color: white;
}

.nav-list li a:hover{
    text-decoration: none;
    color: #f30303 ;
    font-family: 'Ubuntu', sans-serif;
}

.rightNav{
    /* background-color: black; */
    width: 30%;
    text-align: right;
    padding: 0 23px;

}

#search{
    padding: 5px;
```

```css
    font-size: 17px;
    border: 2px solid grey;
    border-radius: 9px;
}

.background{
    background-color: linear-gradient(to bottom right ,#600000, #f30303,#600000);
    background: rgba(0, 0, 0, 0.7) url('../images/bg1.jpg');
    background-size: cover;
    background-blend-mode: darken;
}

.firstSection{
    height: 90vh;
}

.box-main{
    display: flex;
    justify-content: center;
    align-items: center;
    color: white;
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
    max-width: 70%;
    margin: auto;
    height: 75%;
}

.firstHalf{
    width: 80%;
    display: flex;
    flex-direction: column;
    justify-content: center;
}

.secondHalf{
    width: 30%;
}

.secondHalf img{
    width: 70%;
    /* padding: 4px 0; */
    border: 4px solid white;
    border-radius: 70px;
    display: block;
    margin: auto;
```

```css
}

.text-Big{
    font-size: 40px;
    font-family: Georgia, 'Times New Roman', Times, serif;
    /* text-align: center; */
}

.text-Small{
    font-size: 15px;
}

.btn{
    padding: 8px 20px;
    margin: 7px 3px;
    border: 2px solid white;
    border-radius: 10px;
    font-size: 16px;
    background: none;
    color: white;
    cursor: pointer;
    font-family: 'Ubuntu', sans-serif;
}

.btn-sm{
    padding: 6px 10px;
    vertical-align: middle;
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif ;
}

.Section{
    /* height: 500px; */
    display: flex;
    align-items: center;
    justify-content: space-evenly;
    max-width: 80%;
    margin:auto;
    padding: 0 40px;
    font-family: 'Ubuntu', sans-serif;
    padding: 10px;
}

.headtext{
```

```css
    font-size: 40px;
    font-family: "Proxima Nova","Proxima Nova Fallback",sans-serif;
    text-align: center;
    font-family: "Proxima Nova","Proxima Nova Fallback",sans-serif;
    font-weight: bold;
    /* font-size: 24px;*/
    line-height: 40px;
    margin-bottom: 15px;
    margin-top: 30px;
}

.info-paras{
    padding: 0 65px;
}

.secLeft{
    flex-direction: row-reverse;
}

.imgFluid{
    width: 400px;
    border: 2px black;
    border-radius: 26px;
    margin-top: 19px;
}

.text-donate{
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
}

.donate-Head{
    padding: 16px 0;
}

.contact{
    background : linear-gradient(to bottom right ,#600000, #f30303,#600000);
    /* height: 170vh; */
}

.text-Center{
    text-align: center;
    padding-top: 10px ;
    font-family: 'Ubuntu', sans-serif;
    font-size: 35px;
```

```css
}

.form{
    max-width: 62%;
    margin: 12px auto;

}

.form-input{
    margin: 14px 0;
    padding: 5px 13px;
    width: 100%;
    font-size: 19px;
    border: 2px solid grey;
    border-radius: 6px;
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
}

.btn-dark{
    color: black;
    border: solid black;
}

.text-footer{
    text-align: center;
    padding: 10px ;
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
    display: flex;
    justify-content: center;
    color: white;
}

.burger{
    display: none;
    position:absolute;
    cursor: pointer;
    right: 5%;
    top: 15px;
}

.line{
    width: 33px;
    background-color: white;
    height: 4px;
    margin: 3px 3px;
```

```css
}
@media only screen and (max-width: 1140px){
    .nav-list{
        flex-direction: column;
    }
    .navbar{
        height: 600px;
        flex-direction: column;
        transition: all 0.7s ease-out;
    }
    .rightNav{
        text-align: center;
    }
    .box-main{
        flex-direction: column-reverse;
        max-width: 100%;
    }
    #search{
        width: 100%;
    }
    .burger{
        display: block;
    }
    .h-nav-resp{
        height: 60px;
    }
    .v-class-resp{
        opacity: 0;
    }
    .Section{
     flex-direction: column-reverse;
    }
    .text-Big{
        text-align: center;
    }
    .text-Small{
        text-align: center;
    }
    .buttons{
        text-align: center;
    }
    .info-paras{
        padding: 0px 1px;
    }
}
```

LOGIN PAGE CODES

HTML:-

```html
<!DOCTYPE html>
<html lan="en" and dir="Itr">
  <head>
    <meta charset="utf-8" />
    <title>Blood Donation Login Page</title>
    <link rel="stylesheet" href="style.css" />
    <script scr="login2.js"></script>
  </head>
  <body>
    <form class="box" action="login.html" method="POST">
      <h1>login</h1>
      <input type="text" name="" placeholder="Enter Username" id="username" />
      <input
        type="password"
        name=""
        placeholder="Enter Password"
        id="password"
      />
      <input type="submit" name="" value="login" onclick="validate()" />
    </form>
  </body>
</html>
```

JAVA:-

```java
function validate()
{
    var username=document.getElementById("username").value;
    var password=document.getElementById("password").value;
    if(username=="admin"&& password=="user")
    {
        alert("login Successfull");
        return false;
    }
    else
    {
```

```
        alert("Login Falied");
    }
}
```

CSS:-

```css
body{
    margin:0;
    Padding: 0;
    font-family: Arial, Helvetica, sans-serif;
    background: url(blooddonation.jpg);
    background-size: cover;
}
.box{
    width: 300px;
    padding: 30px;
    position: absolute;
    top: 50%;
    left: 50%;
    transform: translate(-50%, -50%);
    background: rgba(0,0,0,0.4);
    text-align: center;

}
.box h1{

    color: white;
    text-transform: uppercase;
    font-weight : 700;
}
.box input[type="text"], .box input[type="password"]
{
    border: 0;
    background: none;
    display: block;
    margin: 20px auto;
    text-align: center;
    border: 3px solid #fff;
    padding: 14px 10px;
    width: 220px ;
    outline: none;
    color: aqua;
    border-radius: 24px;
```

```css
        transition: 0.25px;

}

.box input[type="text"]:focus, .box input[type="password"]:focus{

    width:270px;
    border-color: blueviolet;
}

.box input[type="submit"]{
    border: 0;
    background: none;
    display: block;
    text-align: center;
    border: 3px solid #fff;
    padding:14px 10px;
    width: 220px;
    outline: none;
    color: antiquewhite;
    border-radius: 24px;
    transition: 0.25px;
    cursor: pointer;

}
.box input[type="submit"]:hover
{
    background: rgb(255, 121, 121);
}
```
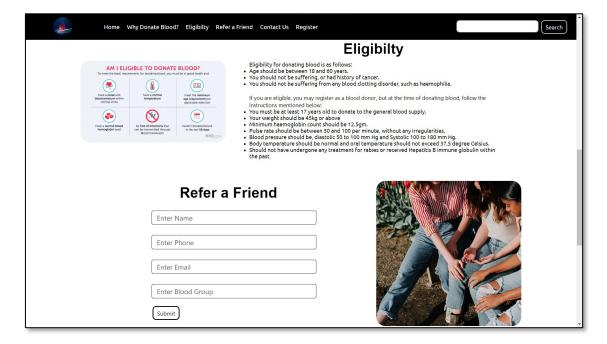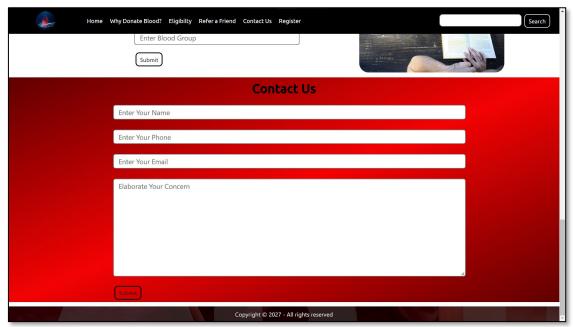
SCREENSHOTS

Homepage:-

Home   Why Donate Blood?   Eligibilty   Refer a Friend   Contact Us   Register

Search

Eligibilty

Eligibility for donating blood is as follows:
- Age should be between 18 and 60 years.
- You should not be suffering, or had history of cancer.
- You should not be suffering from any blood clotting disorder, such as haemophilia.

If you are eligible, you may register as a blood donor, but at the time of donating blood, follow the instructions mentioned below:
- You must be at least 17 years old to donate to the general blood supply.
- Your weight should be 45kg or above
- Minimum haemoglobin count should be 12.5gm.
- Pulse rate should be between 50 and 100 per minute, without any irregularities.
- Blood pressure should be, diastolic 50 to 100 mm Hg and Systolic 100 to 180 mm Hg.
- Body temperature should be normal and oral temperature should not exceed 37.5 degree Celsius.
- Should not have undergone any treatment for rabies or received Hepatitis B immune globulin within the past

AM I ELIGIBLE TO DONATE BLOOD?
To meet the basic requirements for donating blood, you must be in good health and

have a **pulse** and **blood pressure** within normal limits

have a **normal temperature**

meet the **minimum age requirement** per applicable state law

have a **normal blood hemoglobin** level

be free of **infections** that can be transmitted through blood transfusion

haven't donated blood in the last **56 days**

HHS.gov

Refer a Friend

Enter Name

Enter Phone

Enter Email

Enter Blood Group

Submit

Home   Why Donate Blood?   Eligibilty   Refer a Friend   Contact Us   Register

Search

Enter Blood Group

Submit

Contact Us

Enter Your Name

Enter Your Phone

Enter Your Email

Elaborate Your Concern

Submit

Login page: -

LOGIN

Enter Username

Enter Password

login

Donate Blood

<u>REFERENCES</u>

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2. *https://www.youtube.com/watch?v=GeykycZ4Ixs&t=1s*
3. *https://stackoverflow.com/*
4. *https://www.bing.com/search?q=blood+donation+quotes&qs =AS&pq=blood+donation+quo&sc=8- 18&cvid=A330C4F69A41474BADE6AEB968F1149D&FORM= QBRE&sp=1&ghc=1*
5. *https://en.wikipedia.org/wiki/Blood_donation*