REPORT FOR BLOOD DONATION:

AS A PROJECT WORK FOR COURSE

INTERNET PROGRAMMING LABORATORY (CSE 326)

NAME:	PRIYANSHU KUMAR
REGISTRATION NO:	12212934
NAME:	DIGAMBAR KUMAR
REGISTRATION NO:	12210391
NAME:	RAMJI PORWAL
REGISTRATION NO:	12210732
PROGRAM:	CSE B.TECH
SEMESTER:	FIRST
SCHOOL:	SCHOOL OF COMPUTER SCIENCE AND ENGINEERING
NAME OF THE UNIVERSITY:	LOVELY PROFESSIONAL UNIVERSITY
DATE OF SUBMISSION:	1 DECEMBER 2022

Table of Contents

BLOOD DONATION

1 DECEMBER 2022

ABSTRACT:-

THIS BLOOD DONATION WEBSITE CREATED WITH THE HELP OF HTML AND CSS HELPS A USER TO REGISTER FOR BLOOD DONATION AND ALSO HELP TO THAT USER WHO IS IN SEARCH OF A DONOR . WE CREATED THIS WEBSITE IN A SUCH A WAY THAT USER FIND IT VERY EASY TO USE AND WORK ACCORDING TO THEIR NEED.

ACKNOWLEDGEMENT:-

INTRODUCTION:-

1.CONTEXT:

This project has been done as part of my course for the CSE at Lovely Professional University .Supervised by MOHAMMAD FAIZ sir.

2.MOTIVATIONS:

Being extremely interested in everything having a relation with the frontend web development , the group project was a great occasion to give us the time to learn and confirm our interest for this field . The fact that we can make a prototype website for Blood donation makes easier . That's why I decided to conduct my project in Internet Programming Language.

TEAM MEMBERS:-

1. PRIYANSHU KUMAR

CONTRIBUTIONS:-

1. CODING(JOINED)
2. CSS
3. THEORY(JOINED)

2. DIGAMBAR KUMAR

CONTRIBUTIONS:-

1. CODING(JOINED)
2. HTML
3. THEORY(JOINED)

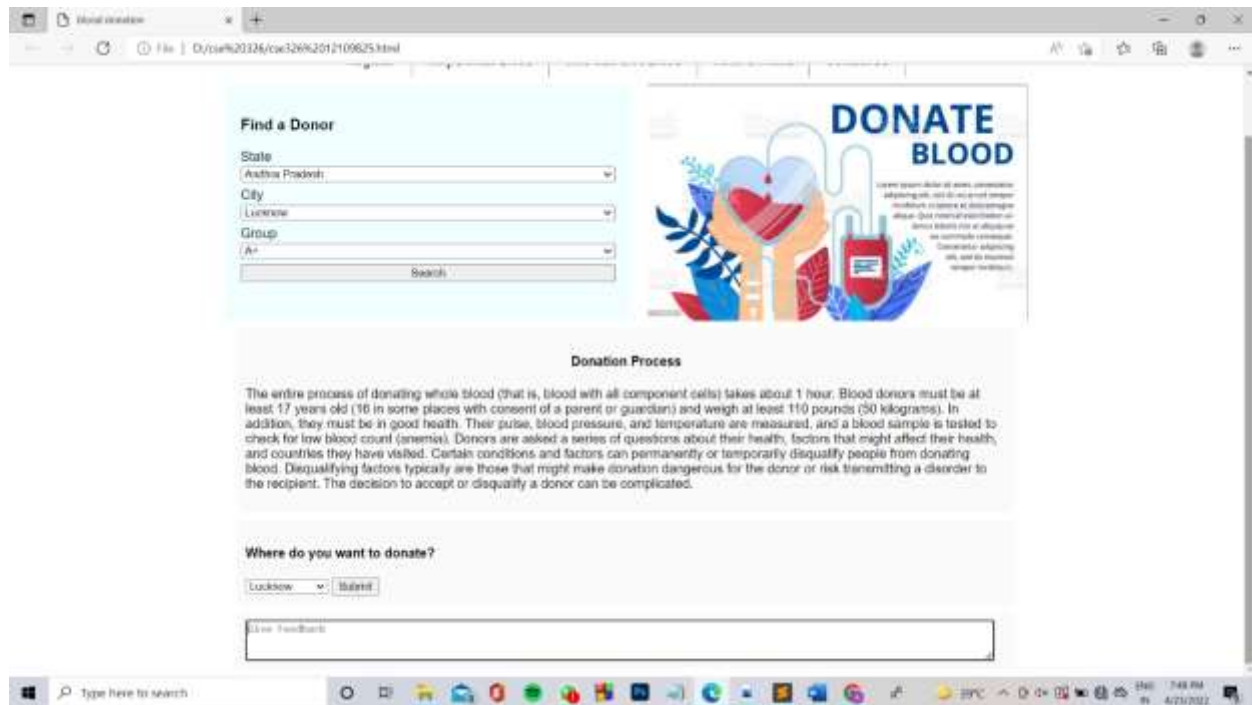## 3. RAMJI PORWAL

CONTIBUTIONS:-

1. CODING(JOINED)
2. HTML
3. THEORY(JOINED)

SCREENSHOTS:

CODE:

```
<html>
<head>
<title>blood donation</title>
<style type="text/css">
#topbar{
height: 40px;
display: flex;
justify-content: center;
margin-right: 142.5px;
}
body{
margin: 0px;
padding:0px;
font-family:Arial,Helvetica,sans-serif;
}
```

```css
#topbar-section{
float: left;
border-left: 1px grey solid;
height: 100%;
border-right: 1px grey solid;
}
.text{
float: left;
border-right: 1px grey solid;
}
.text-styling{
float: left;
margin:13px 20px 8px 20px;
font-size: 90%;
}
#redbar{
height: 58px;
background-color:BB1919;
}
#title{
float: left;
font-weight: 400;
color: #FFFFFF;
font-family: ReithSans, Arial, Helvetica, freesans, sans-serif;
font-size: 15px;
margin-left:10px;
display: flex;
align-content: center;

}
.form{
float: right;
color: white;
}
.form label,.form input,.form button{
margin-right: 5px;
```

```css
margin-top: 20px;
}
.main{
display: flex;
flex-direction: row;
align-content: center;
justify-content: center;
font-family: ReithSans, Arial, Helvetica, freesans, sans-serif;
font-stretch: 100%;
}
.find{
height: 250px;
width: 30vw;
background-color: azure;
margin: 10px;
padding: 20px;
display: flex;
flex-direction: column;
}
.find label{
margin-bottom: 3px;
}
.find select{
margin-bottom: 7px;
}
.image{
height: 290px;
width: auto;
margin: 10px
}
.image img{
height: 100%;
width: auto;
}
.process{
display: flex;
flex-direction: row;
```

```css
justify-content: center;

}
.pro{
width: 61vw;
background-color: #fafafa;
padding: 10px;
}
.location{
display: flex;
justify-content: center;
margin: 10px;

}
.where{
background-color: #fafafa;
padding: 10px;
width: 61vw;
display: flex;
flex-direction: column;
justify-content: center;
align-content: center;

}
.text2{
display: flex;
justify-content: center;
margin: 10px;
}
.textarea{
background-color: #fafafa;
padding: 10px;
width: 61vw;

}
.text a{
color: black;
}
.text a:hover{
color: #1ABC9C;
}
```

```html
</style>
</head>
<body>
<div id="redbar">
<p id="title">BloodBank.com<br>A Social Initiative</p>
<form class="form">
<label for="username">Donor Login</label>
<input name="username" type="text" placeholder="Username">
<label for="password">Password</label>
<input name="password" placeholder="Password" type="password">
<button type="submit">Login</button>
</form>
</div>

<div id="topbar">
<div class="text">
<a href=""><p class="text-styling"><b> Register</b></p></a>
</div>
<div class="text">
<a href=""><p class="text-styling"><b>Why Donate Blood</b></p></a>
</div>
<div class="text">
<a href=""><p class="text-styling"><b>Who Can Give Blood</b></p></a>
</div>
<div class="text">
<a href=""><p class="text-styling"><b>Refer a Friend</b></p></a>
</div>
<div class="text">
<a href=""><p class="text-styling"><b>Contact Us</b></p></a>
</div>
</div>
<section class="main">
<div class="find">
<h3>Find a Donor</h3>
```

```html
<label for="state">State</label>
<select name="state" id="state" class="form-control">
<option value="Andhra Pradesh">Andhra Pradesh</option>
<option value="Andaman and Nicobar Islands">Andaman and Nicobar Islands</option>
<option value="Arunachal Pradesh">Arunachal Pradesh</option>
<option value="Assam">Assam</option>
<option value="Bihar">Bihar</option>
<option value="Chandigarh">Chandigarh</option>
<option value="Chhattisgarh">Chhattisgarh</option>
<option value="Dadar and Nagar Haveli">Dadar and Nagar Haveli</option>
<option value="Daman and Diu">Daman and Diu</option>
<option value="Delhi">Delhi</option>
<option value="Lakshadweep">Lakshadweep</option>
<option value="Puducherry">Puducherry</option>
<option value="Goa">Goa</option>
<option value="Gujarat">Gujarat</option>
<option value="Haryana">Haryana</option>
<option value="Himachal Pradesh">Himachal Pradesh</option>
<option value="Jammu and Kashmir">Jammu and Kashmir</option>
<option value="Jharkhand">Jharkhand</option>
<option value="Karnataka">Karnataka</option>
<option value="Kerala">Kerala</option>
<option value="Madhya Pradesh">Madhya Pradesh</option>
<option value="Maharashtra">Maharashtra</option>
<option value="Manipur">Manipur</option>
<option value="Meghalaya">Meghalaya</option>
<option value="Mizoram">Mizoram</option>
<option value="Nagaland">Nagaland</option>
<option value="Odisha">Odisha</option>
<option value="Punjab">Punjab</option>
<option value="Rajasthan">Rajasthan</option>
<option value="Sikkim">Sikkim</option>
<option value="Tamil Nadu">Tamil Nadu</option>
<option value="Telangana">Telangana</option>
<option value="Tripura">Tripura</option>
<option value="Uttar Pradesh">Uttar Pradesh</option>
<option value="Uttarakhand">Uttarakhand</option>
<option value="West Bengal">West Bengal</option>
```

```html
</select>
<label for="city">City</label>
<select name="city" id="city" class="form-control">
<option value="Andhra Pradesh">Lucknow</option>
<option value="Andaman and Nicobar Islands">Prayagraj</option>
<option value="Arunachal Pradesh">Kanpur</option>
<option value="Assam">Bengaluru</option>
<option value="Bihar">Kolkata</option>
<option value="Chandigarh">Mumbai</option>
<option value="Chhattisgarh">Jaipur</option>
<option value="Dadar and Nagar Haveli">Amritsar</option>
<option value="Daman and Diu">Chandigarh</option>
<option value="Delhi">Ghaziabad</option>
<option value="Lakshadweep">Noida</option>
<option value="Puducherry">Bhopal</option>
<option value="Goa">Patna</option>
<option value="Gujarat">Ahmedabad</option>
<option value="Haryana">Surat</option>
<option value="Himachal Pradesh">Dehradun</option>
<option value="Jammu and Kashmir">Haridwar</option>
<option value="Jharkhand">Kota</option>
<option value="Karnataka">Varanasi</option>
<option value="Kerala">Kanyakumari</option>
<option value="Madhya Pradesh">Riwa</option>
<option value="Maharashtra">Kolhapur</option>
<option value="Manipur">Trivendram</option>
<option value="Meghalaya">Tirupati</option>
<option value="Mizoram">Surathkal</option>
<option value="Nagaland">Kalicut</option>
<option value="Odisha">Puri</option>
<option value="Punjab">Jalandhar</option>
</select>
<label for="group">Group</label>
<select name="group" id="group" class="form-control">
<option value="Andhra Pradesh">A+</option>
<option value="Andaman and Nicobar Islands">B+</option>
<option value="Arunachal Pradesh">AB+</option>
<option value="Assam">A-</option>
```

```html
<option value="Bihar">B-</option>
<option value="Chandigarh">AB-</option>
<option value="Bihar">O+</option>
<option value="Chandigarh">O-</option>
</select>
<button type="submit">Search</button>

</div>
<div class="image">
<img src="donate blood.jpg">
</div>
</section>

<section class="process">
<div class="pro">
<h4 style="text-align: center;">Donation Process</h4>
<p>The entire process of donating whole blood (that is, blood with all component cells) takes about 1 hour. Blood donors must be at least 17 years old (16 in some places with consent of a parent or guardian) and weigh at least 110 pounds (50 kilograms). In addition, they must be in good health. Their pulse, blood pressure, and temperature are measured, and a blood sample is tested to check for low blood count (anemia). Donors are asked a series of questions about their health, factors that might affect their health, and countries they have visited. Certain conditions and factors can permanently or temporarily disqualify people from donating blood. Disqualifying factors typically are those that might make donation dangerous for the donor or risk transmitting a disorder to the recipient. The decision to accept or disqualify a donor can be complicated.</p>
</div>
</section>

<section class="location">

<div class="where">

<div >
<h4 style="display: block;">Where do you want to donate?</h4>
</div>
<div>
<select name="city" id="city" class="form-control">
<option value="Andhra Pradesh">Lucknow</option>
<option value="Andaman and Nicobar Islands">Prayagraj</option>
<option value="Arunachal Pradesh">Kanpur</option>
<option value="Assam">Bengaluru</option>
<option value="Bihar">Kolkata</option>
```

```html
<option value="Chandigarh">Mumbai</option>
<option value="Chhattisgarh">Jaipur</option>
<option value="Dadar and Nagar Haveli">Amritsar</option>
<option value="Daman and Diu">Chandigarh</option>
<option value="Delhi">Ghaziabad</option>
<option value="Lakshadweep">Noida</option>
<option value="Puducherry">Bhopal</option>
<option value="Goa">Patna</option>
<option value="Gujarat">Ahmedabad</option>
<option value="Haryana">Surat</option>
<option value="Himachal Pradesh">Dehradun</option>
<option value="Jammu and Kashmir">Haridwar</option>
<option value="Jharkhand">Kota</option>
<option value="Karnataka">Varanasi</option>
<option value="Kerala">Kanyakumari</option>
<option value="Madhya Pradesh">Riwa</option>
<option value="Maharashtra">Kolhapur</option>
<option value="Manipur">Trivendram</option>
<option value="Meghalaya">Tirupati</option>
<option value="Mizoram">Surathkal</option>
<option value="Nagaland">Kalicut</option>
<option value="Odisha">Puri</option>
<option value="Punjab">Jalandhar</option>
</select>
<button type="submit">Submit</button>
</div>
</div>
</section>
<section class="text2">
<div class="textarea">
<textarea style="width: 60vw;height: 50px;" placeholder="Give Feedback"></textarea>
</div>
</section>

</body>

</html>
```

About Blood Donation

Introduction:

Blood is the most significant gift of life that a person can give to others.

Donated blood is always life saving for people who have lost a significant amount of blood due to various reasons like serious injuries, surgical procedures, medical conditions etc. Therefore, all time availability of blood in blood banks has become a prime concern for the society.

Key words:-

Haemoglobin (Hb)- It is a body protein that contains iron and provides red colour to blood. It also carries oxygen from lungs and nourishes all body tissues.

Iron- It is a part of Hb that helps in synthesis of red blood cells and replaces the lost ones.

Antigen- It is a molecule of protein that is found on the red blood cell (RBC) surface.

Antibody- It is a plasma protein that acts as a natural defence of body. It warns immune system to destroy foreign substances like germs.

Rhesus(Rh) factor- It is an antigen that may or may not be present on the surface of RBCs in blood. If Rh factor is present, then the blood type is termed as Rh positive and if it is absent then the blood type is termed as Rh negative.

Blood Type	Variant	Variant
A	A+	A-
B	B+	B-
AB	AB+	AB-
O	O+	O-

The need for blood:-

As blood can be stored for shorter period of duration, there is a constant need of blood donation to have an adequate and safe supply of all blood groups in time of need. Each donor contributes significantly to meet the challenge of accessibility and affordability to patients by making it available whenever and wherever wanted.

Not only it helps saving lives, but also plays a vital role in improving health of a donor.

Blood should be accepted only from voluntary, non-remunerated, low risk, safe and healthy donors. Replacement of donors should be phased out.

Blood groups:-

- Each person has an ABO blood type – either A, B, AB, or O – which means antigen A, antigen B, both antigens (type AB), or neither antigen (type O) is found on their blood cells.

- Each person also is either Rh-positive or Rh-negative.

The ABO group system is determined by the type of antigens (A antigen, B antigen, both A and B antigens and no antigens) and antibodies (anti A, anti B, anti A and B and no antibody) present in blood.

- A blood group has antigen A on RBCs and anti-B antibody in plasma.
- B blood group has antigen B and anti-A antibody in plasma.
- AB blood group has both antigens A & B and no antibody in plasma.
- O blood group has no antigen and both anti- A & anti-B antibodies in plasma.

Blood compatibility:-

- Blood group A can be given to A and O only.
- Blood group B can be given to B and O only.
- Blood group AB can be given to AB and O only.
- Blood group O can be given to any blood type, specifically, O negative can be given to anybody as there is no antigen present on its cell surface.

Rh factor-

To a person with Rh-positive blood, Rh-positive or Rh-negative blood can be given. But people with Rh-negative blood should only get Rh-negative blood.

During pregnancy, problems can occur if a pregnant woman is Rh negative and her fetus is Rh positive. It is called Rh incompatibility.

Fact check

- Adequate supply of safe blood can only be achieved through regular, voluntary, unpaid donors.
- All donated blood should be screened for HIV, hepatitis B and C & syphilis.
- A single unit of blood can benefit several patients.

- O negative blood is universally accepted and can be given to any other blood type.
- Red blood cells can be used within 42 days of storage.
- Platelets must be used within 5 days of storage.

Before blood donation

- Make sure your Hb in within normal range.
- Eat iron-rich diet like beans, spinach, fish, red meat and iron-fortified cereals.
- Have a sound sleep and drink lots of fluids.
- No alcohol should be consumed before the donation day.
- Stop taking blood thinning medication before 2-3 days, if any.

Day of blood donation

- Drink extra water or non-alcoholic drink before donation.
- Avoid fatty food like fries, burger etc.
- Wear a shirt with loose sleeves that can be rolled up the elbows easily.
- Take all prescriptions or medications with you, if any.
- Bring a photo identity proof.
- Talk to other donors or staff and relax.

After blood donation

- Keep bandage on the area of prick for next several hours.
- Keep sitting for few minutes after donating blood.
- Eat refreshment given by the staff, you have earned it.
- Do not do any strenuous exercise like weight lifting for the rest of the day.
- If the site bleeds, apply pressure and raise arm for few minutes until bleeding stops.
- In case of dizziness, lie down until you feel better.
- Keep taking iron-rich diet to replace the lost iron store from body.

CONCLUSION:-

IT IS OUR TEAMS HOPE THAT THIS DOCUMENT WILL BE OF HUGE HELP WITH UNDERSTANDING OF OUR LITTLE PROJECT AND EASY FOR US TO UNDERSTAND HTML , AND CSS. WE TRIED TO MAKE USING THE WEBSITE TOO MUCH EASIER FOR THE USER , SO THAT HE CAN EASILY REGISTER FOR DONATION OF BLOOD AS WELL AS SOMEONE WHO NEEDS BLOOD CAN FIND A DONOR EASILY FROM THE WEBSITE.

REFERENCES:-

1.GeeksForGeeks

https://www.geeksforgeeks.org/

2.w3schools

https://www.w3schools.com/css/