

# **MINI PROJECT REPORT**

## **BLOOD DONATION MANAGEMENT SYSTEM**



Estd. 2000

Submitted By

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**GHAZIABAD**

## **DECLARATION**

I hereby declare that the Report entitled ("Blood Donation Management System") is an authentic record of my own work as requirements of Mini Project during the period from 01-06-2022 to 01-10-2022 for the award of degree of B.Tech. (Computer Science & Engineering), ABES Engineering College, Ghaziabad.

**Date: 01-10-2022**

*Paras*

**Signature**

**Name:Paras Jain**

**Roll No.:1900320100105**

## **ACKNOWLEDGEMENT**

The success accomplished in this project would not be possible but for the timely help and guidance rendered by many people. I wish to express my sincere and heartfelt gratitude to my personalities.

I wish to express my sincere thanks to Mini Project Co-ordinator Mr. Rohit Rastogi for giving me this opportunity.

I am thankful to our Department Staff who have given a lot number of suggestions in carrying out my project.

I am thankful to my Friends for helping me in completing my project.

**PARAS JAIN**

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## **INTRODUCTION**

Imagine if we are travelling and suddenly hit by a truck and lot of blood is wasted out from our Body. During hospitalization we get know that the blood group we needed is not available in the blood bank. At this time, we can only do one thing is pray to god, and keep patience in a way that someone will come forward & donate the require blood. But, did you know how much time have you wasted. And we all know consequences of that the patient could be die due to unavailability of blood .

In India ,60 million trauma-induced surgery performed every year i.e 1200 accident cases happens every day in which blood requirement is high and lot of patient died due unavailability of blood on time.

To overcome this problem, Blood Donation Management System provide interface to user to search donor list motivate user to become donor and save the life of other . This is very fast and helpful.

## **MOTIVATION**

In a digital era everyone wants to get their work faster .we saw that lot people die due to unavailabilty of blood and  
On seeing this type of problem you should move a one step ahead and the save the life of other who are in need.

### **PROJECT OBJECTIVE**

**Our project aims to design, develop and implement online blood bank management system. This web-based application provides:**

- 1. To manage the information of blood donor**
- 2. Easily search the donor list**
- 3. Encourage user to become donor**

### **SCOPE OF PROJECT**

**In future , we can add the stock information of blood and maintain the supply and utility of blood in efficient way. We can also add a feature in which needed one can search blood group through just sending a message through simple phone**

# **LITERATURE SURVEY**

## **1.Bloodbanktoday**

The website for Blood Bank India is a website that provides the facility for the donor to register by him or herself as a blood donor. It also provides a feature where a person can request blood from Bloodbanktoday. It also provides a list of blood banks which can easily be searched by just entering the state and district. This website not only provides the stock information of blood. In this website we can donate funds also for good cause.

<https://bloodbanktoday.com/>

## **2.ebloodbankodisha**

Ebloodbankodisha is a government organization that helps to donate blood. This website provides information about blood stock but we cannot register as a donor. We have to visit a blood bank to register. We can login as a blood bank user, and a state user. This website does not provide the donor information for all users.

<https://ebloodbankodisha.nic.in/Websites/frontPage>

# **SOFTWARE AND HARDWARE REQUIREMENTS**

## **Technologies used**

- ❖ Visual Studio.net
- ❖ HTML
- ❖ CSS
- ❖ JQUERY
- ❖ BOOTSTRAP FRAMEWORK
- ❖ Ms SQL Server

## **Software Requirements**

- DBMS Software(XAMPP)
- Visual studio.net
- Windows 10
- Google Chrome\_

## **Hardware Requirements**

- ✓ Hard Disk – 2GB
- ✓ RAM – 1 GB.
- ✓ Processor – Dual Core or Above.



## **PROPOSED METHOD**

**In the proposed system,donor can easily register on this website and get registered himself as a blood donor very easily and helps the other people.Also they can edit their profile and delete their profile.Admin can see the all donor list and they can also add donor and delete donor detail.**

### **Modules**

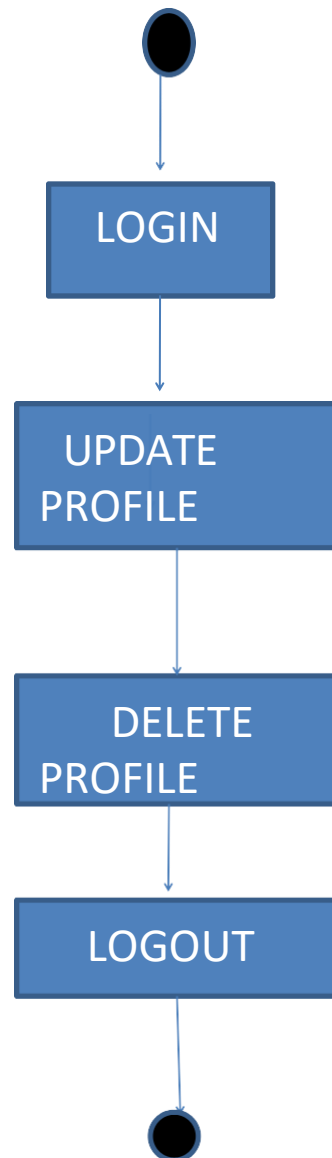
#### **1. ADMIN MODULE:**

**They have all the right to add all the details to system such as donor detail,delete donor profile.**

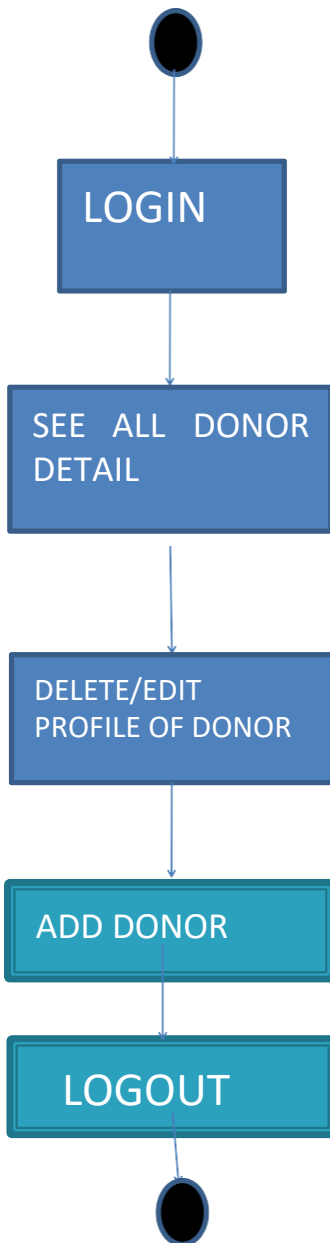
#### **2. USER MODULE:**

**Donor is the one who can donates the blood .The information of all the donors is being maintained.Donor can easily registerd on this website where they should enter their basic detail.**

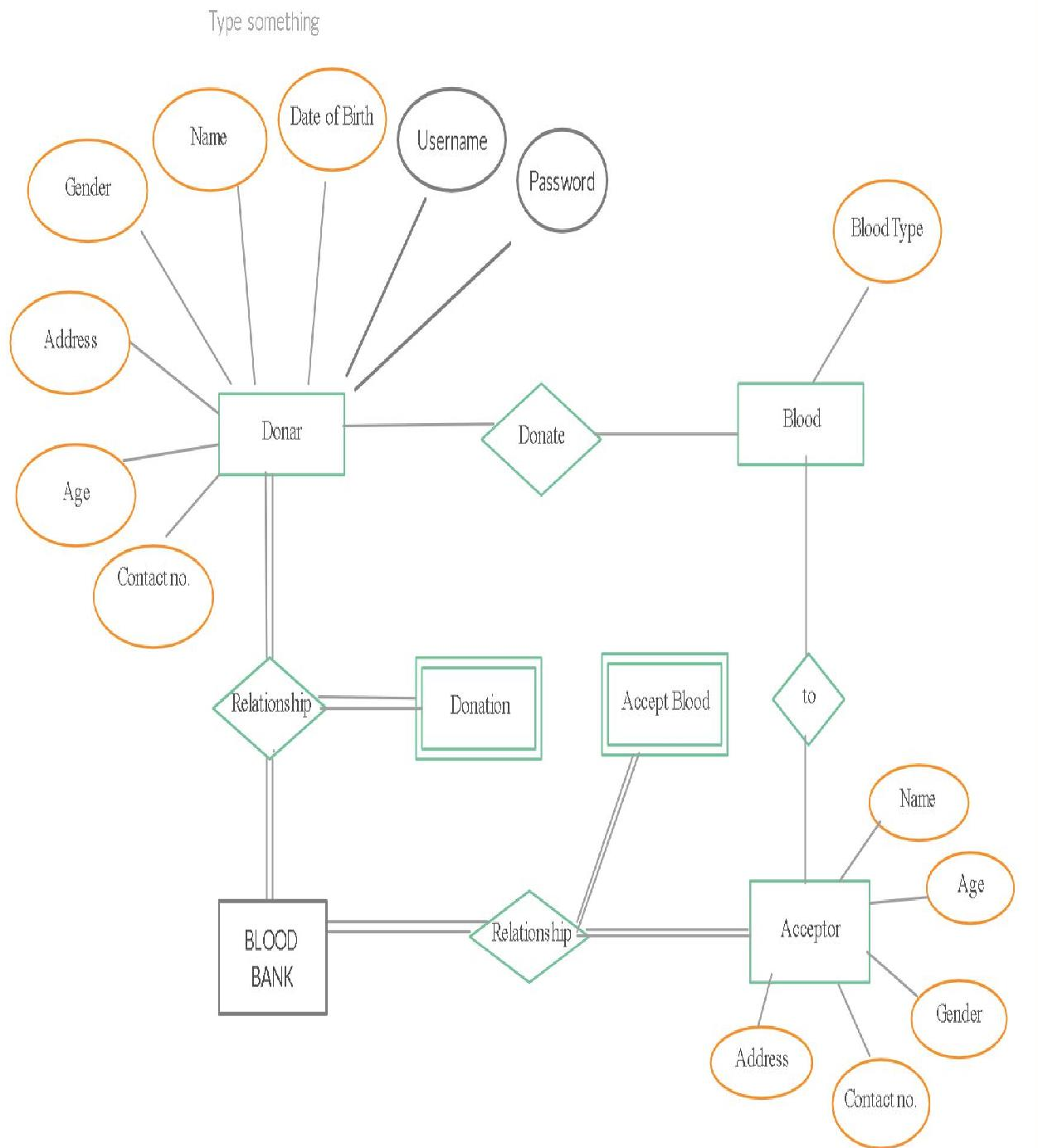
## **ACTIVITY DIAGRAM: DONOR**



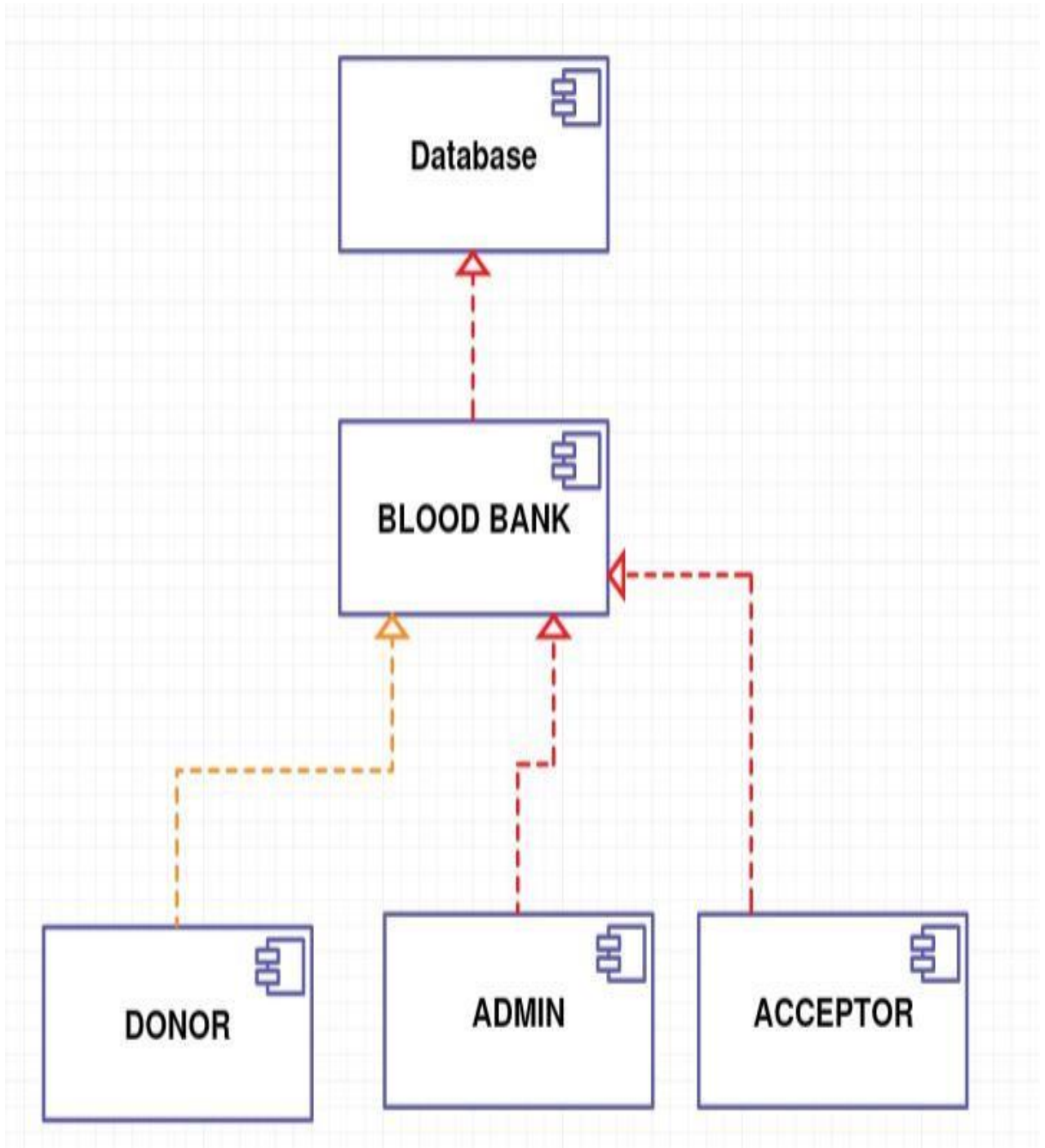
## **ACTIVITY DIAGRAM: ADMIN**



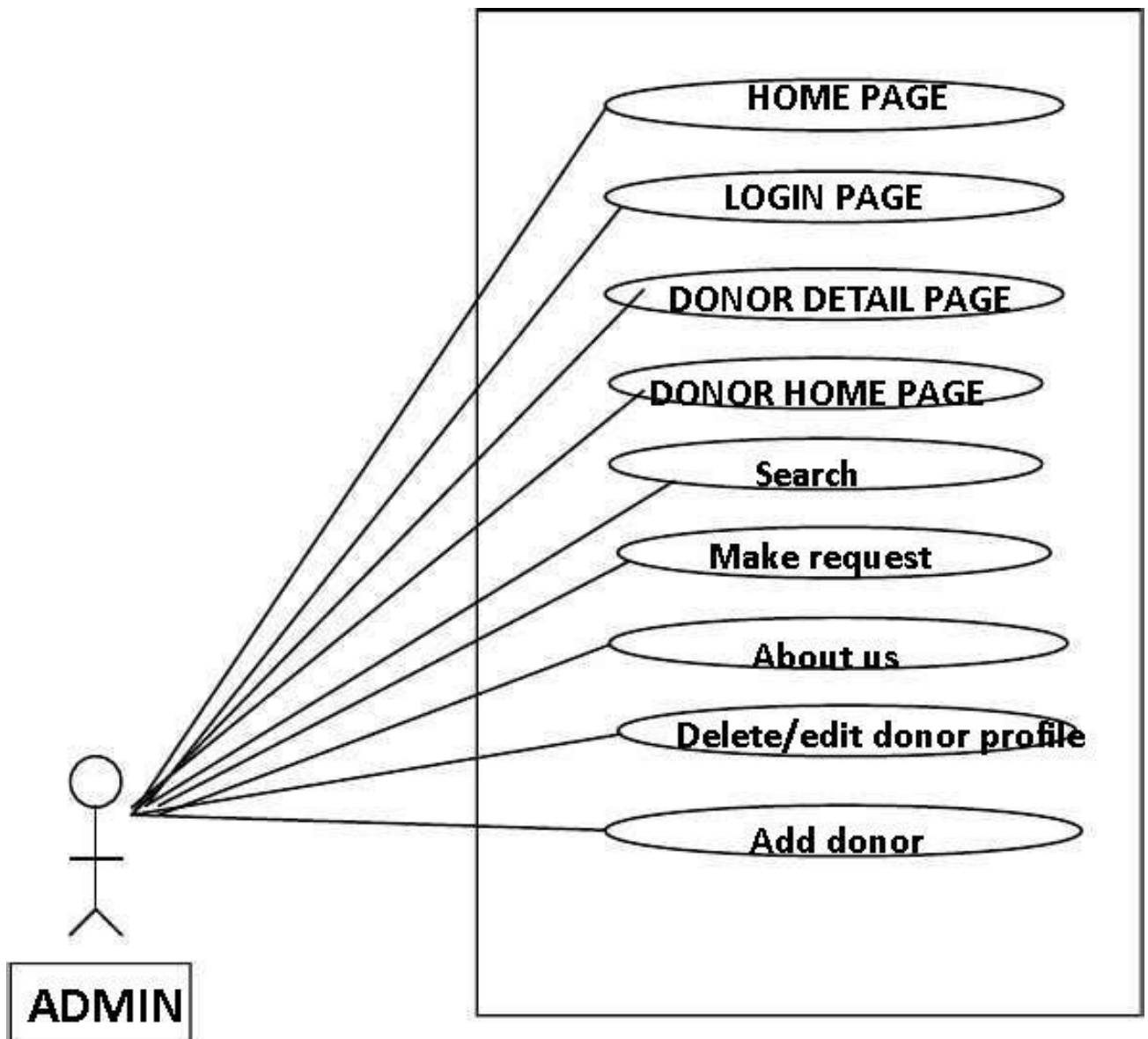
## ER DIAGRAM



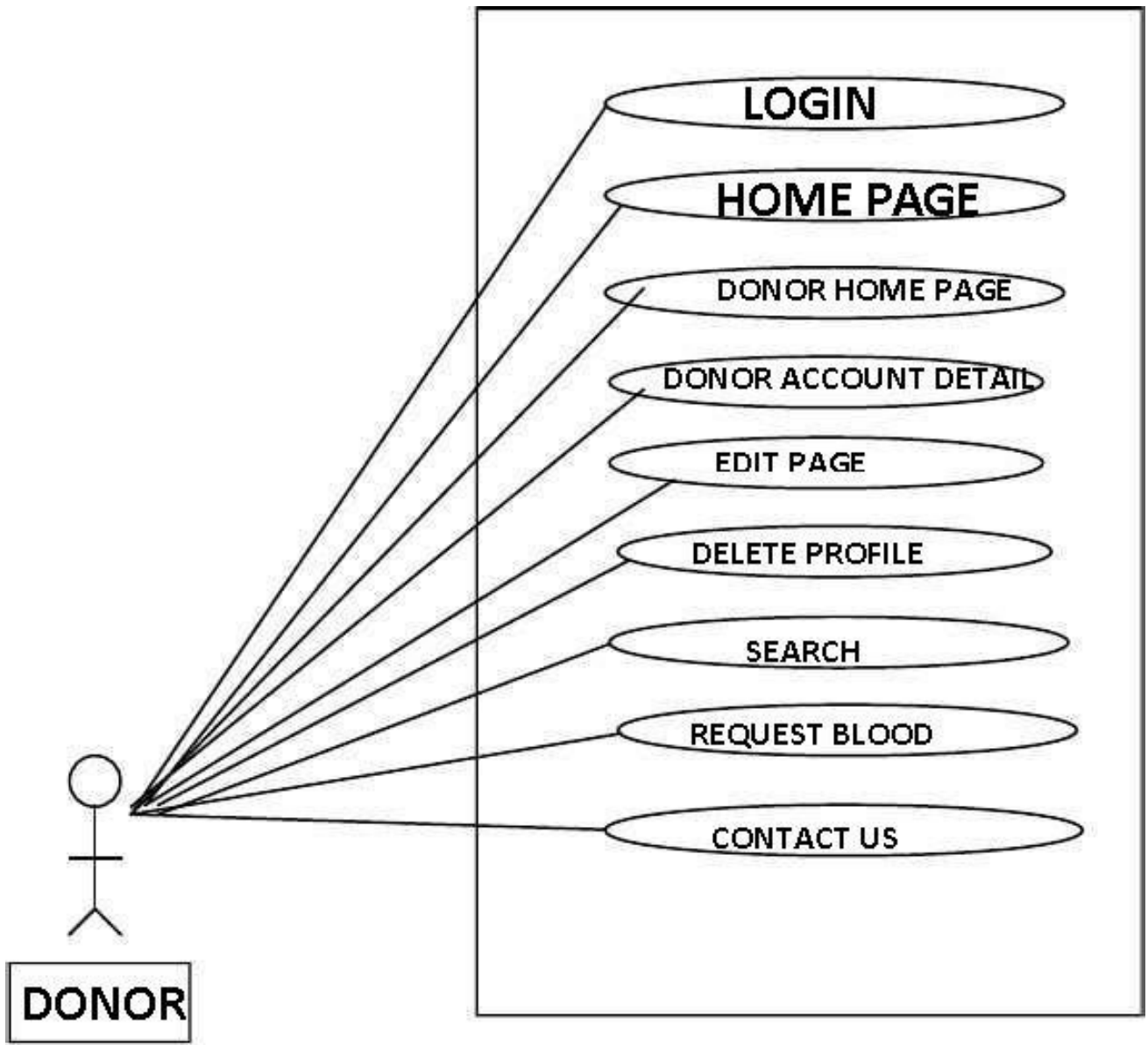
## COMPONENT DIAGRAM



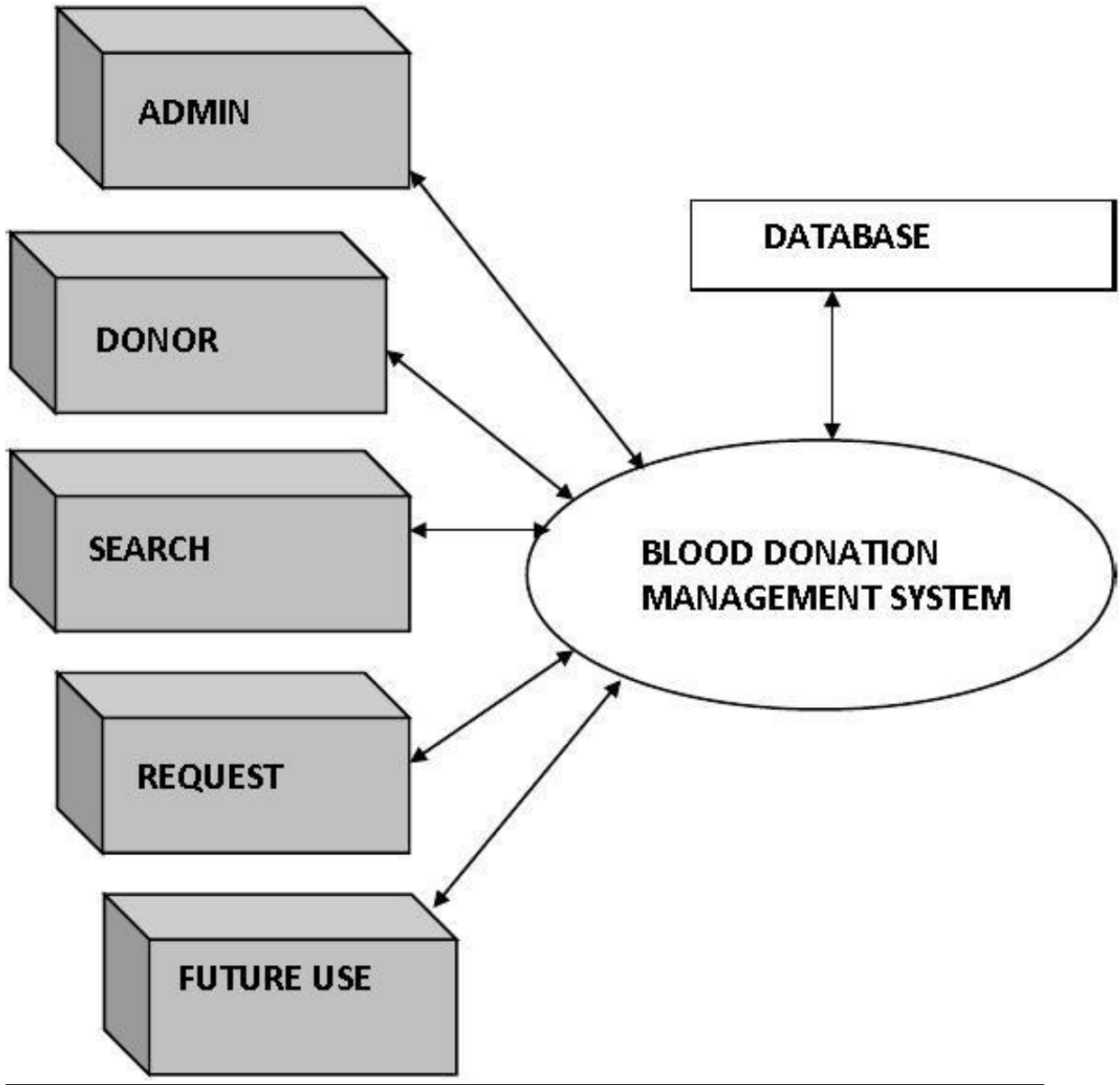
## USER CASE DIAGRAM :ADMIN



## UML DIAGRAM:DONOR



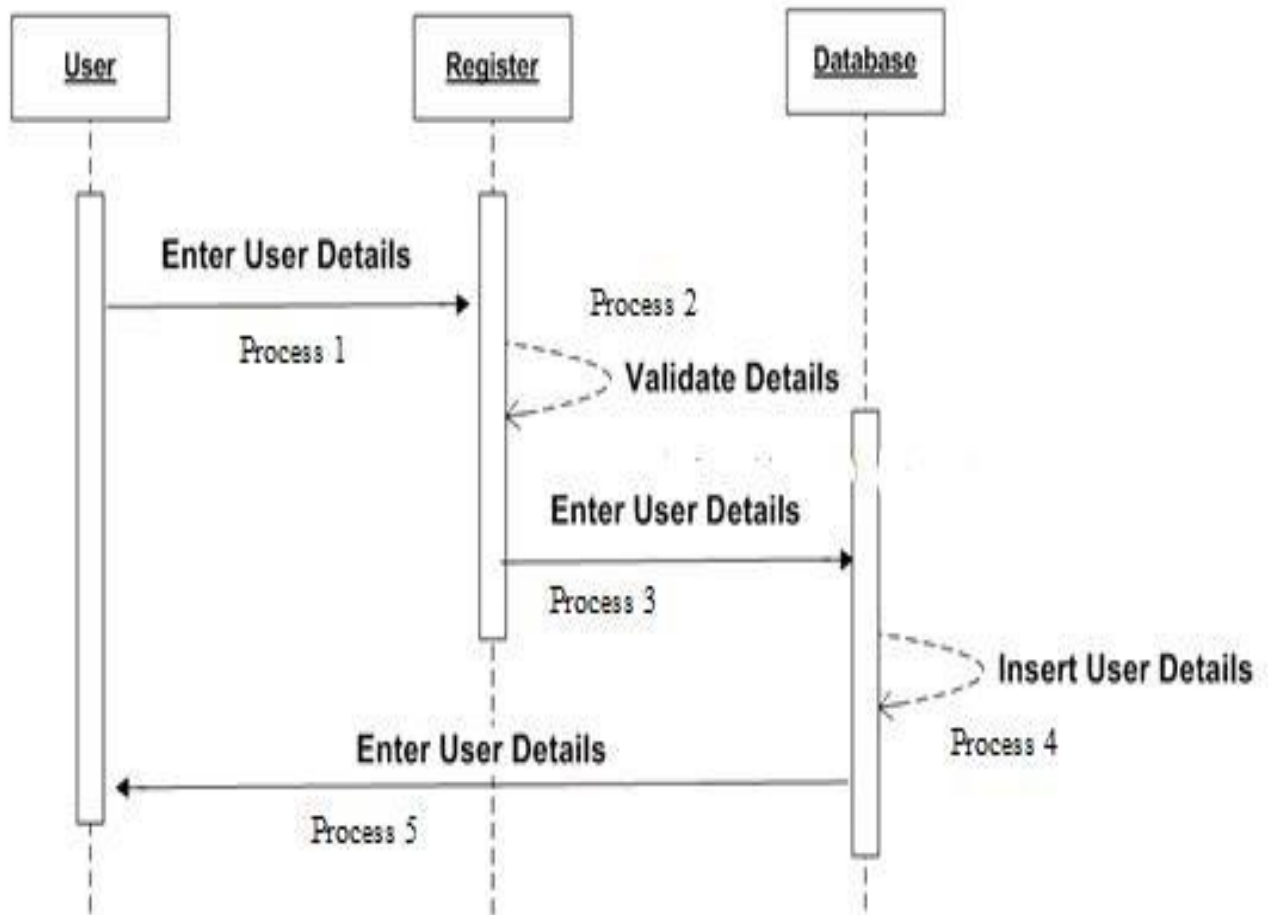
## DATA FLOW DIAGRAM





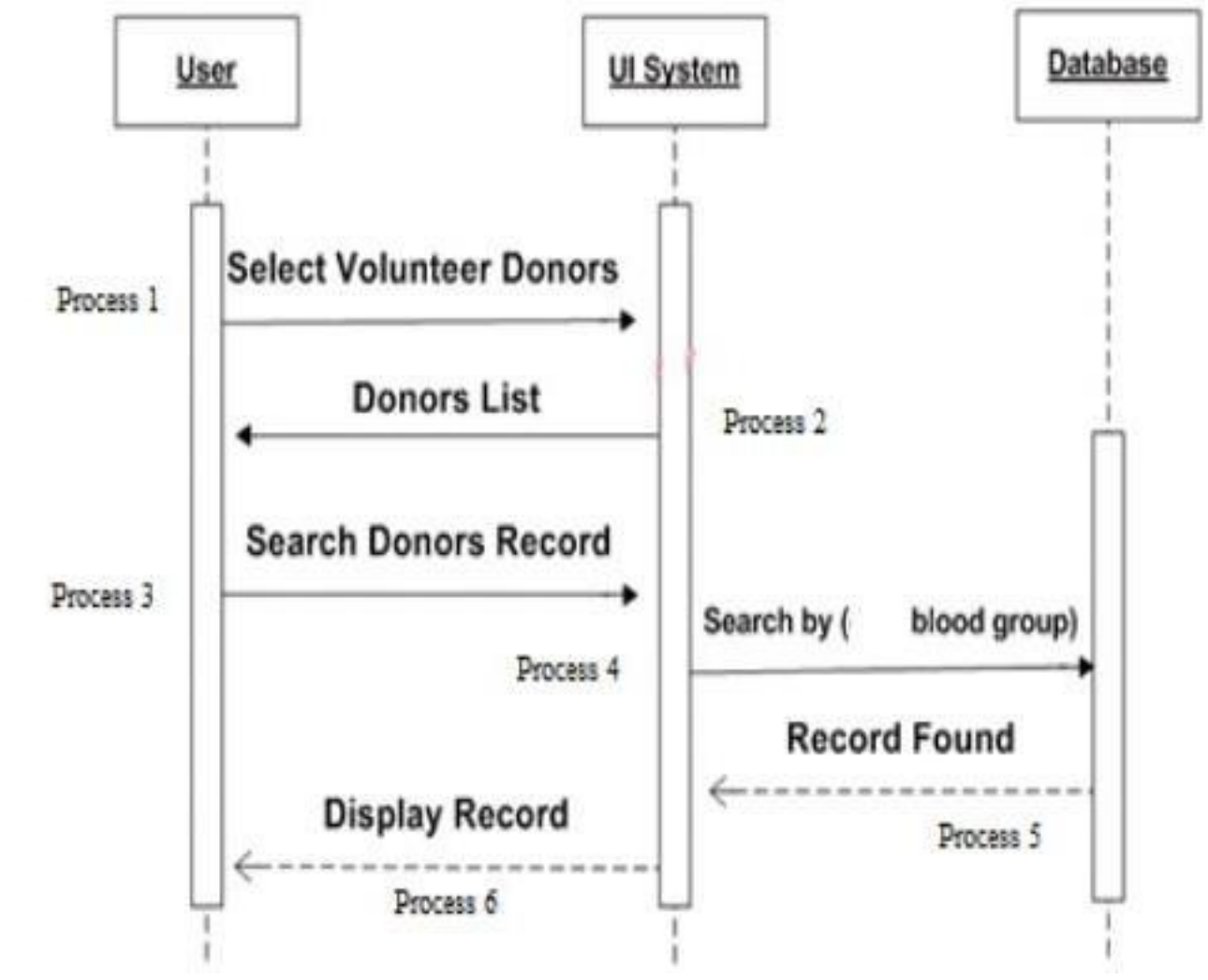
## SEQUENCE DIAGRAM

Registration:

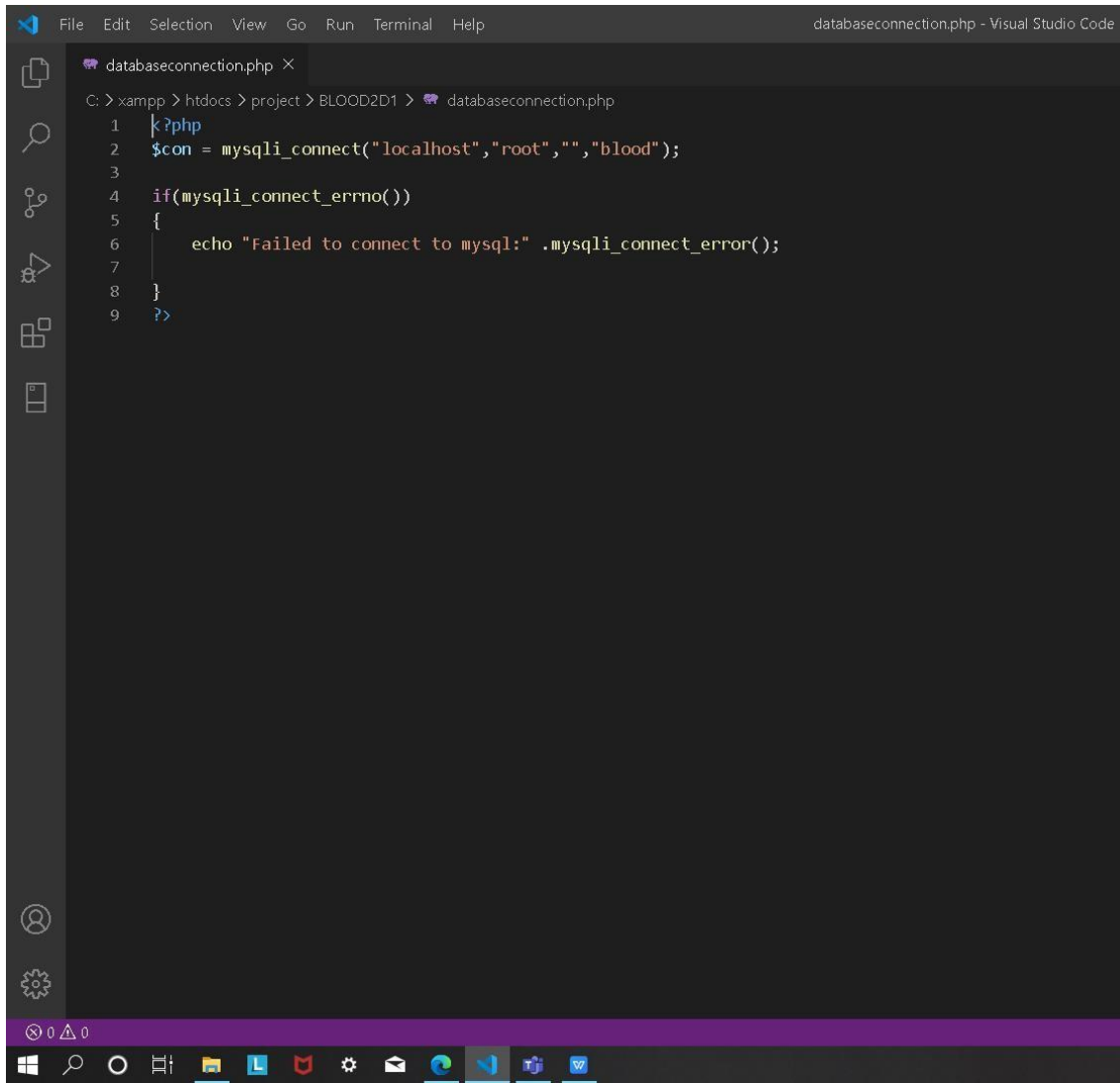


## SEQUENCE DIAGRAM:SEARCH DONOR

### Search Donors:



## CODE SNIPPETS

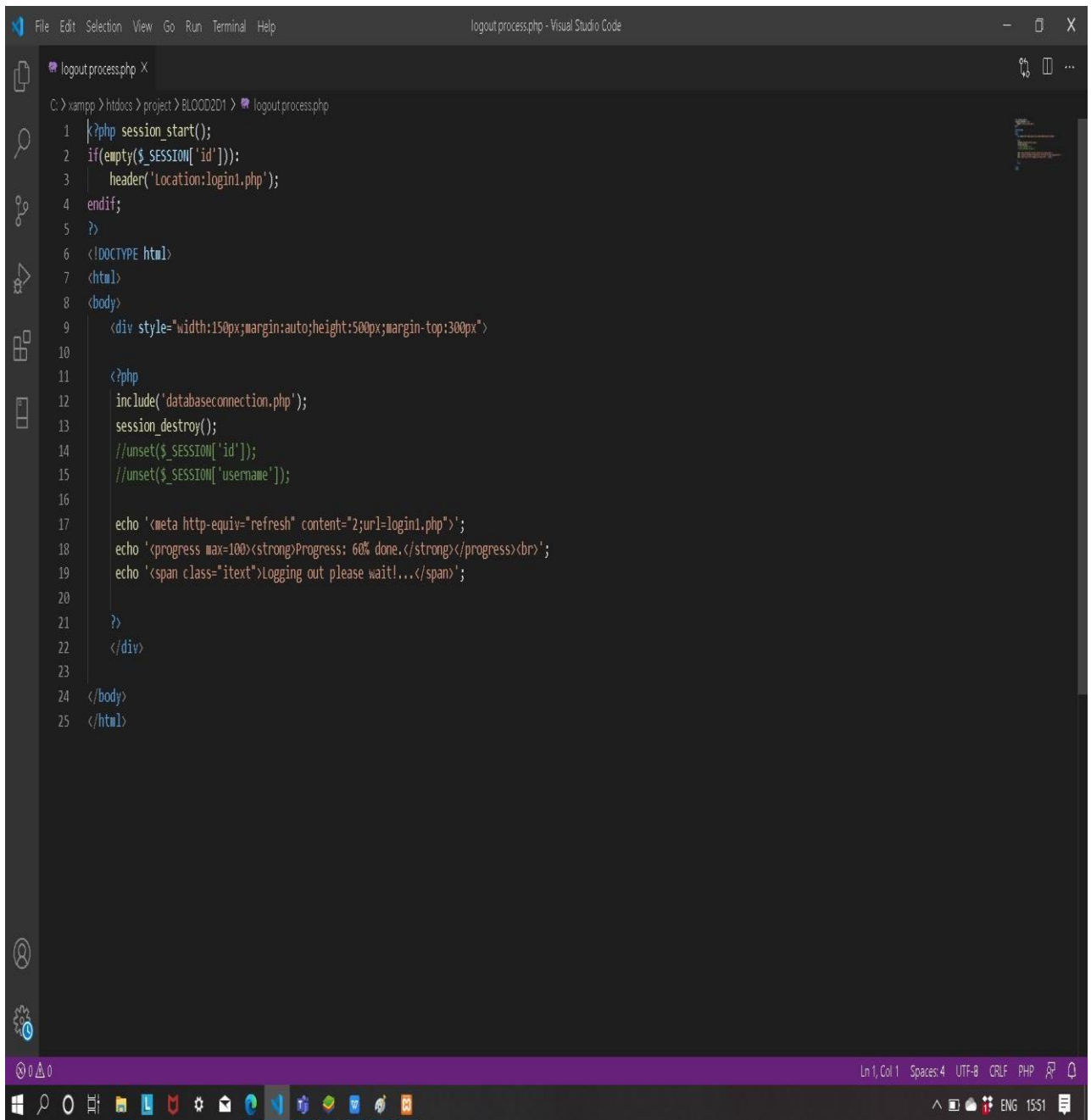


```
File Edit Selection View Go Run Terminal Help
databaseconnection.php ×
C: > xampp > htdocs > project > BLOOD2D1 > databaseconnection.php
1  <?php
2  $con = mysqli_connect("localhost","root","","blood");
3
4  if(mysqli_connect_errno())
5  {
6      echo "Failed to connect to mysql:" .mysqli_connect_error();
7  }
8  }
9  ?>
```

```
login process.php X
C:\> xampp > htdocs > project > BLOOD2D1 > login process.php
1  <?php session_start();
2
3  include('databaseconnection.php');
4
5  if(isset($_POST['login']));
6  {
7      $user_unsafe=$_POST['username'];
8      $pass_unsafe=$_POST['password'];
9
10     $user = mysqli_real_escape_string($con,$user_unsafe);
11     $pass = mysqli_real_escape_string($con,$pass_unsafe);
12
13     $query=mysqli_query($con,"SELECT * from mytable where username='$user' and password='$pass'"
14     or die(mysqli_error($con));
15
16     $row=mysqli_fetch_array($query);
17
18     $user=$row['username'];
19     $pass=$row['password'];
20     $name = $row['name'];
21     $gender = $row['gender'];
22     $datepicker1 = $row['datepicker1'];
23     $bloodgroup = $row['bloodgroup'];
24     $weight = $row['weight'];
25     $available= $row['available'];
26     $street = $row['street'];
27     $area = $row['area'];
28     $city = $row['city'];
29     $pincode = $row['pincode'];
30     $mobile = $row['mobile'];
31     $email = $row['email'];
32     $role= $row['role'];
33
34
35     $counter=mysqli_num_rows($query);
36     $id=$row['id'];
37
38     if ($counter == 0)
```

```
login process.php - Visual Studio Code
File Edit Selection View Go Run Terminal Help

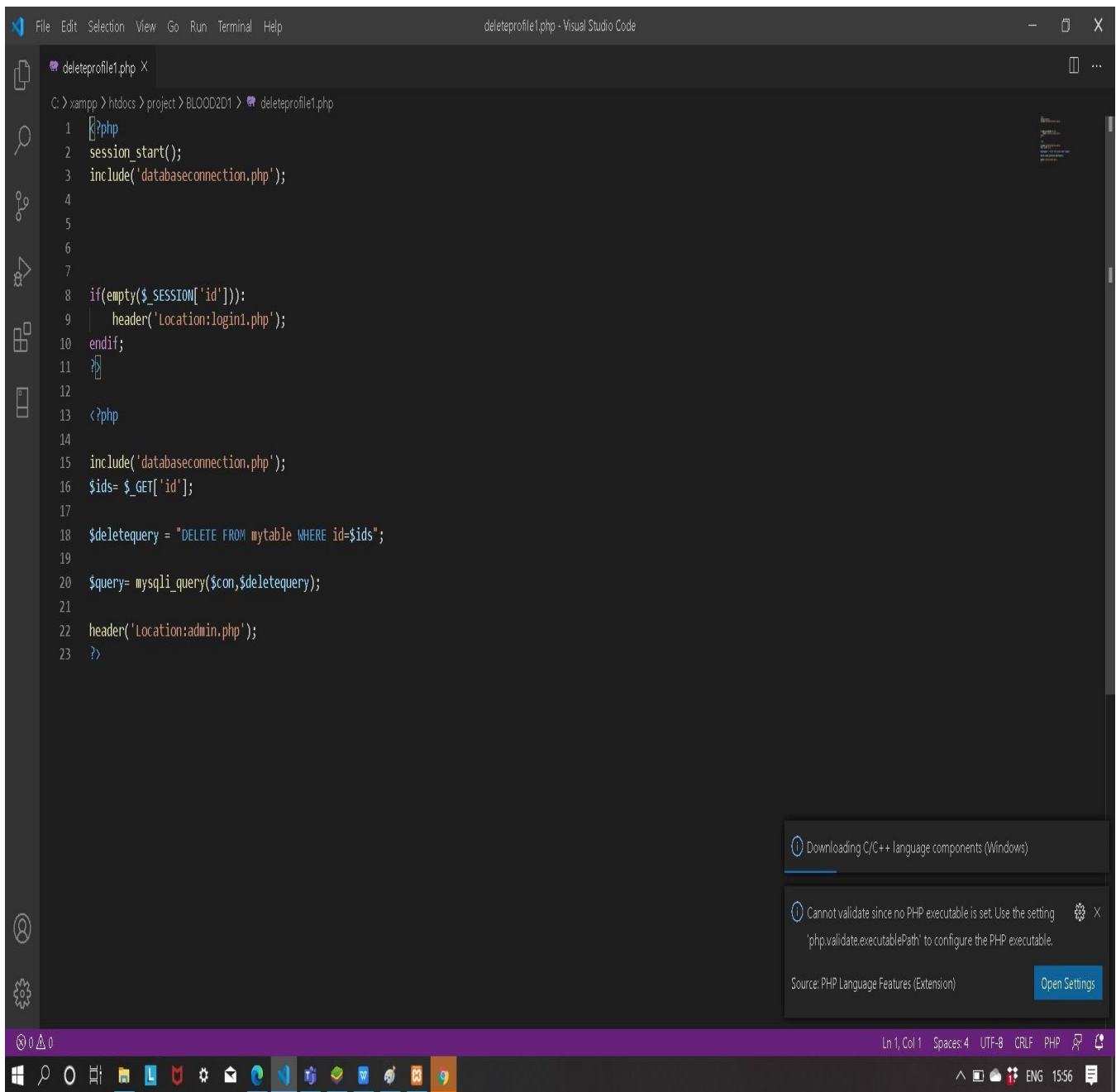
login process.php X
C:\xampp\htdocs\project>BLOOD2D1 login process.php
1 <?php session_start();
2
3 include('databaseconnection.php');
4
5 if(isset($_POST['login']));
6 {
7     $user_unsafe=$_POST['username'];
8     $pass_unsafe=$_POST['password'];
9
10    $user = mysqli_real_escape_string($con,$user_unsafe);
11    $pass = mysqli_real_escape_string($con,$pass_unsafe);
12
13    $query=mysqli_query($con,"SELECT * from mytable where username='$user' and password='$pass'")
14    or die(mysqli_error($con));
15
16    $row=mysqli_fetch_array($query);
17
18    $user=$row['username'];
19    $pass=$row['password'];
20    $name = $row['name'];
21    $gender = $row['gender'];
22    $datepicker1 = $row['datepicker1'];
23    $bloodgroup = $row['bloodgroup'];
24    $weight = $row['weight'];
25    $available= $row['available'];
26    $street = $row['street'];
27    $area = $row['area'];
28    $city = $row['city'];
29    $pincode = $row['pincode'];
30    $mobile = $row['mobile'];
31    $email = $row['email'];
32    $role= $row['role'];
33
34
35    $counter=mysqli_num_rows($query);
36    $id=$row['id'];
37
38    if ($counter == 0)
```



```
File Edit Selection View Go Run Terminal Help
logoutprocess.php - Visual Studio Code

logoutprocess.php X
C:\xampp\htdocs\project\BLOOD2D1 > logoutprocess.php
1  <?php session_start();
2  if(empty($_SESSION['id'])):
3      header('Location:login1.php');
4  endif;
5  ?>
6  <!DOCTYPE html>
7  <html>
8  <body>
9      <div style="width:150px;margin:auto;height:500px;margin-top:300px">
10
11      <?php
12          include('databaseconnection.php');
13          session_destroy();
14          //unset($_SESSION['id']);
15          //unset($_SESSION['username']);
16
17          echo '<meta http-equiv="refresh" content="2;url=login1.php">';
18          echo '<progress max=100><strong>Progress: 60% done.</strong></progress><br>';
19          echo '<span class="itext">Logging out please wait!...</span>';
20
21      ?>
22  </div>
23
24 </body>
25 </html>
```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF PHP



## OUTPUT SCREEN





Sign in to your account x Blood Bank Management System x localhost / 127.0.0.1 / phpMyAdmin x Blood Donation Management x

localhost/project/BLOOD2D1/request.php

HOME SEARCH DONOR LOGIN

## Place Blood Request

Patient Name

Enter Name

Gender

MALE

Blood Group REQUIRED A1+

When you need blood

dd-mm-yyyy

REQUIREMENT

Enter unit

Mobile

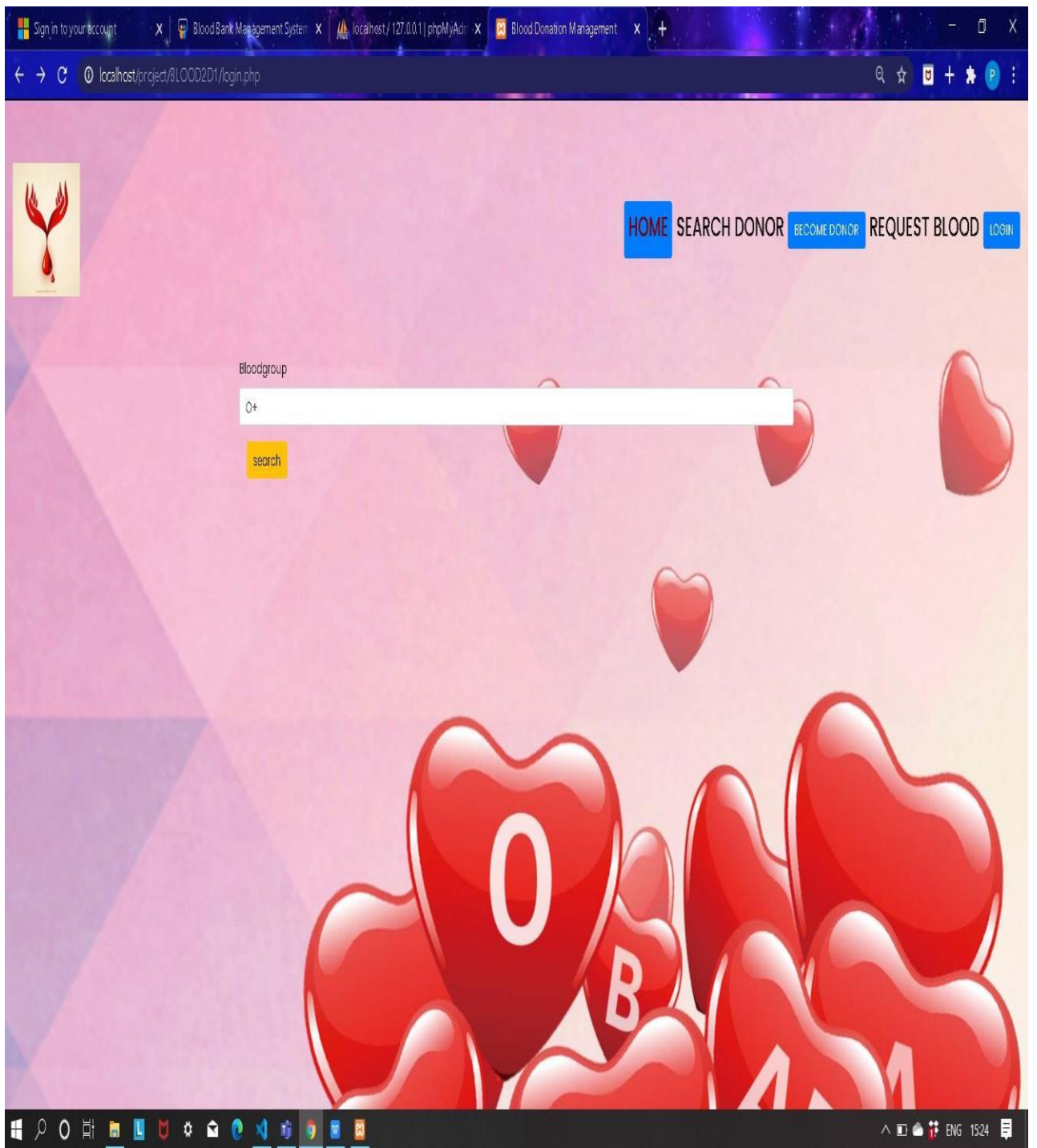
Enter mobile


Address

Enter address

Place Request

25





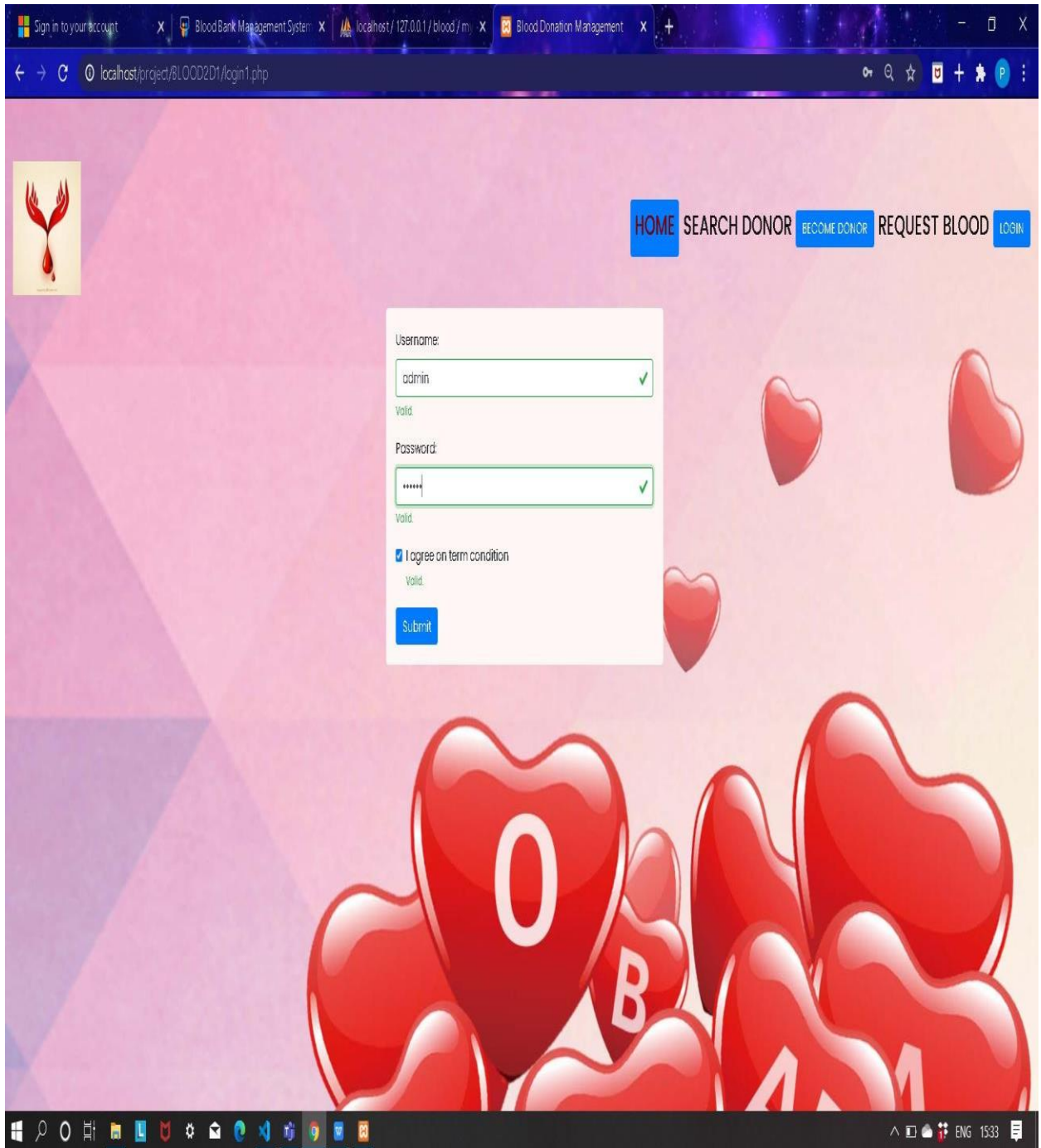
[HOME](#) [SEARCH DONOR](#) [BECOME DONOR](#) [REQUEST BLOOD](#) [LOGIN](#)

Bloodgroup

search

Name	Address	Mobile	Available/Unavailable
pawan kumar	VPO BAOLI TEH BARAUT DISTT BAGHPAT	8630043539	YES
pawan kumar	VPO BAOLI TEH BARAUT DISTT BAGHPAT	8630043539	YES
pawan kumar	VPO BAOLI TEH BARAUT DISTT BAGHPAT	8630043539	YES
pawan kumar	VPO BAOLI TEH BARAUT DISTT BAGHPAT	8630043539	YES
pawan kumar	VPO BAOLI TEH BARAUT DISTT BAGHPAT	8630043539	YES





Sign in to your account x Blood Bank Management System x localhost/127.0.0.1/blood/m x Blood Donation Management x

localhost/project/BLOOD2D1/admin.php

Logout

### User Detail

Group	Weight	Willing to donate Plasma	Street	Area	City	Pincode	Mobile	Email	Username	Actions
	50	YES	VPO BAOLI TEH BARAUT DISTT BAGHPAT	baoli	Mumbai	250621	8630043539	shivi21797@gmail.com	pawan	<a href="#">Edit Profile</a> <a href="#">Delete Profile</a>
	50	YES	VPO BAOLI TEH BARAUT DISTT BAGHPAT	baoli	Mumbai	250621	8630043539	shivi21797@gmail.com	pawan	<a href="#">Edit Profile</a> <a href="#">Delete Profile</a>
	50	YES	VPO BAOLI TEH BARAUT DISTT BAGHPAT	baoli	Mumbai	250621	8630043539	shivi21797@gmail.com	pawan	<a href="#">Edit Profile</a> <a href="#">Delete Profile</a>
	50	YES	VPO BAOLI TEH BARAUT DISTT BAGHPAT	baoli	Mumbai	250621	8630043539	shivi21797@gmail.com	pawan	<a href="#">Edit Profile</a> <a href="#">Delete Profile</a>
	50	YES	VPO BAOLI	baoli	Mumbai	250621	8630043539	shivi21797@gmail.com	pawan	<a href="#">Edit Profile</a>

Windows taskbar: 15:34 ENG

Sign in to your account x Blood Bank Management System x localhost/127.0.0.1/blood/my x Blood Donation Management x +

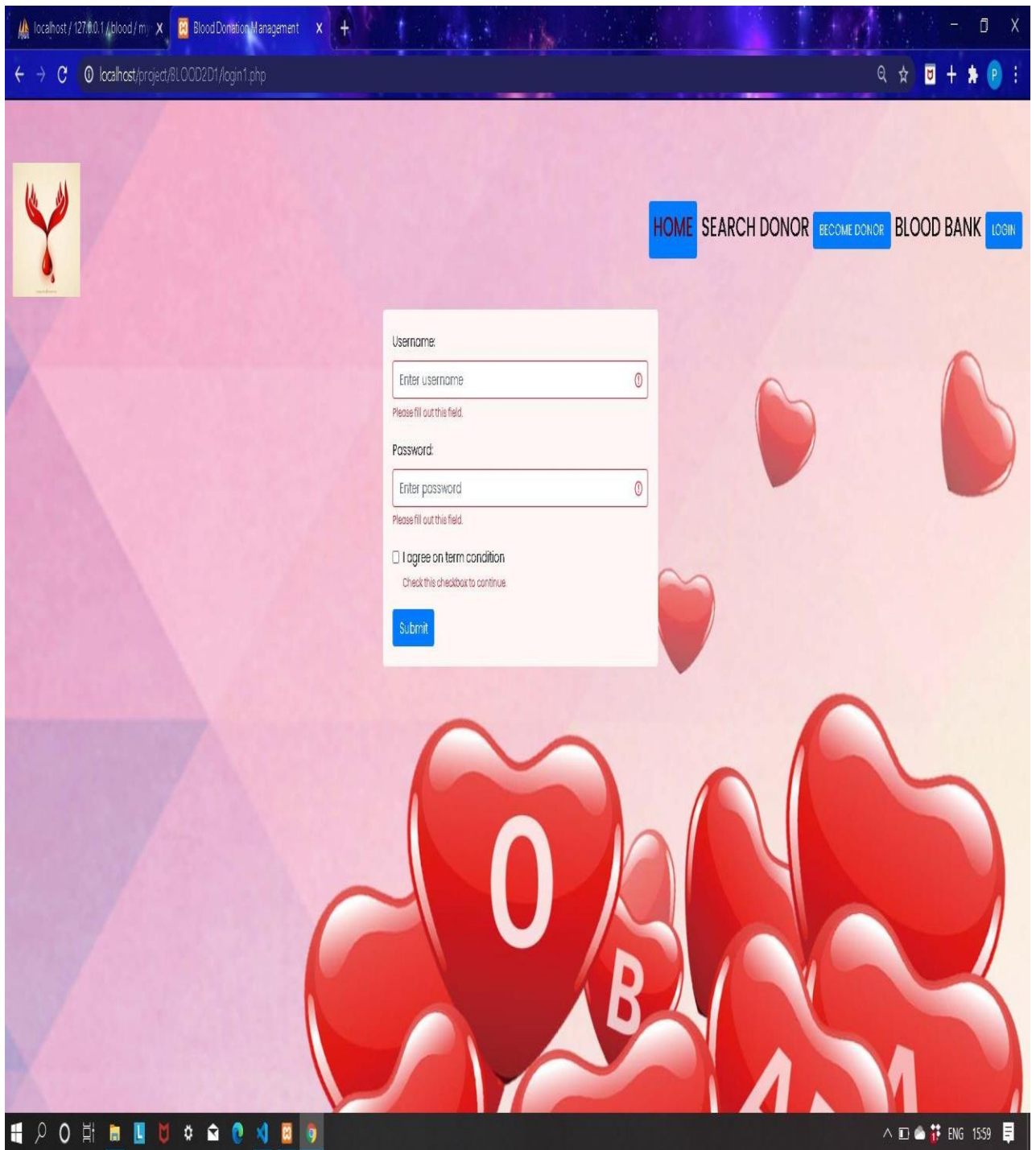
localhost/project/BLOOD2D1/admin.php


							BARAUT DISTT BAGHPAT						
27	pawan kumar	MALE	1000- 10-28	O+	50	YES	VPO BAOLI TEH BARAUT DISTT BAGHPAT	baoli	Mumbai	250621	8630043539	shiv21	
28	pawan kumar	MALE	1000- 10-28	O+	50	YES	VPO BAOLI TEH BARAUT DISTT BAGHPAT	baoli	Mumbai	250621	8630043539	shiv21	
29	pawan kumar	MALE	1000- 10-28	O+	50	YES	VPO BAOLI TEH BARAUT DISTT BAGHPAT	baoli	Mumbai	250621	8630043539	shiv21	
30	pawan kumar	MALE	1000- 10-28	O+	50	YES	VPO BAOLI TEH BARAUT DISTT BAGHPAT	baoli	Mumbai	250621	8630043539	shiv21	
31	PARAS JAIN	MALE	1222- 10-28	A1+	50kg	YES	Mumbai	baoli	Mumbai	411004	8630043539	jparas	

ADD USER

15:34







HOME

SEARCH DONOR

BECOME DONOR

REQUEST BLOOD

Logout

### User Detail

ID	Name	Gender	DOB	BloodGroup	Weight	Willing to donate Plasma	Street	Area	City	Pincode	Mobile	Email
31	PARAS JAIN	MALE	1222-10-28	A1+	50kg	YES	Mumbai	baoli	Mumbai	411004	8630043539	jparas27

Edit Profile

Delete Profile


0

B

4

1





HOME

SEARCH DONOR

BECOME DONOR

REQUEST BLOOD

Logout

### User Detail

ID	Name	Gender	DOB	BloodGroup	Weight	Willing to donate Plasma	Street	Area	City	Pincode	Mobile	Email
31	PARAS JAIN	MALE	1222-10-28	A1+	50kg	YES	Mumbai	baoli	Mumbai	411004	8630043539	jparas27

Edit Profile

Delete Profile

0


B

4

1

Sign in to your account x Blood Bank Management System x localhost/127.0.0.1/phpMyAdmin x Blood Donation Management x

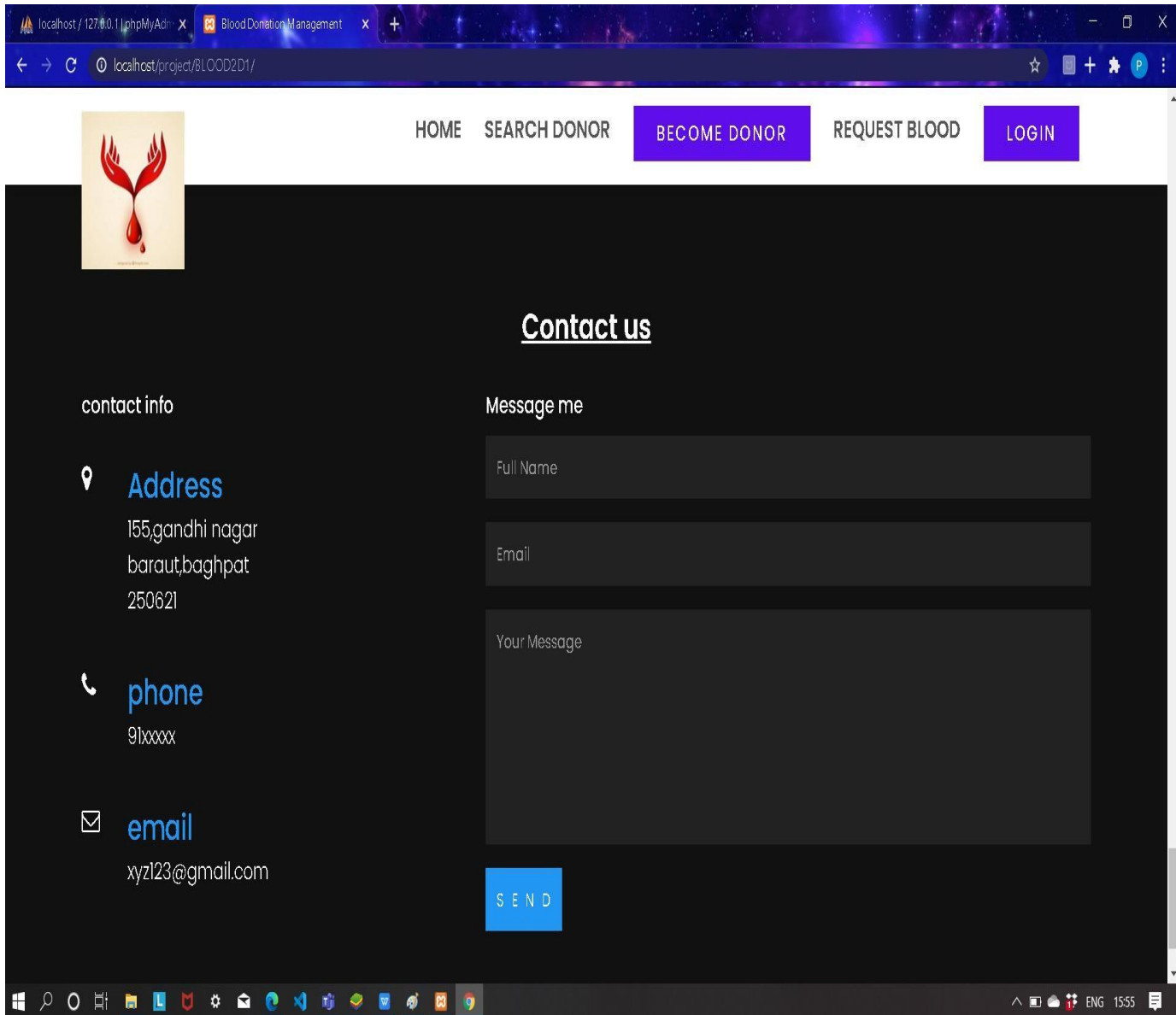
localhost/project/BLOOD2D1/regs.php

 [HOME](#) [SEARCH DONOR](#) [BECOME DONOR](#) [REQUEST BLOOD](#) [LOGIN](#)

## Donor Registration

<p>Name</p> <input type="text" value="Enter Name"/>	<p>Street</p> <input type="text" value="Enter street"/>
<p>Gender</p> <p>MALE</p>	<p>Area</p> <input type="text" value="Enter area name"/>
<p>Date of Birth</p> <input type="text" value="dd-mm-yyyy"/>	<p>City</p> <p>Mumbai</p>
<p>Blood Group</p> <p>A+</p>	<p>Pincode</p> <input type="text" value="Enter pincode"/>
<p>Weight</p> <input type="text" value="Enter weight"/>	<p>Mobile</p> <input type="text" value="Enter mobile"/>
<p>Covid-19 recovered warrior (Willing to donate Plasma)</p> <p>YES</p>	<p>E-mail</p> <input type="text" value="Enter email"/>
	<p>Username</p> <input type="text" value="Enter username"/>
	<p>Password</p> <input type="text" value="Enter Password"/>

[Register](#)



localhost / 127.0.0.1 / blood | phpMyAdmin

localhost/phpmyadmin/db\_structure.php?server=1&db=blood&tcken=79fd6be42084ae3f2ce849db755590e6

Server: 127.0.0.1 - Database: blood

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers Tracking More

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> mytable		7	InnoDB	latin1_swedish_ci	32 Kib	-
<input type="checkbox"/> request		4	InnoDB	latin1_swedish_ci	16 Kib	-
2 tables	Sum	11	InnoDB	latin1_swedish_ci	48 Kib	0 B

☐ Check all With selected: ▾

Print Data dictionary

Create table

Name:  Number of columns:

Go

Console

Windows taskbar: 15:51 ENG

localhost / 127.0.0.1 / blood / my ... New Tab

localhost/phpmyadmin/sql.php?db=blood&token=b2949f14983ade0d147d5d1849db0ad&goto=db\_structure.php&table=mytable&pos=0

phpMyAdmin

Server: 127.0.0.1 Database: blood Table: mytable

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Recent Favorites

New

blood

New

request

hotel

information\_schema

mysql

performance\_schema

phpmyadmin

test

SELECT \* FROM 'mytable'

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

		id	name	gender	datepicker1	bloodgroup	weight	available	street	area	city	pincode	mobile	email	username	password
<input type="checkbox"/>	Edit Copy Delete	22										0	0		admin1	789456
<input type="checkbox"/>	Edit Copy Delete	35	PARAS JAIN	MALE	2000-10-28	A1+	70	YES	Mumbai	baoli	Mumbai	411004	919897875800	jparas277@gmail.com	paras	paras
<input type="checkbox"/>	Edit Copy Delete	36	pawan yadav	MALE	2000-11-28	O-	70	YES	VPO	baoli	Mumbai	250621	919897875800	jparas277@gmail.com	pawan	pawan
<input type="checkbox"/>	Edit Copy Delete	37	PARAS JAIN	MALE	2000-11-28	A1+	50kg	YES	VPO	ANDHERI	Mumbai	250621	919897875800	jparas277@gmail.com	paras	1234567
<input type="checkbox"/>	Edit Copy Delete	38	paras	MALE	1111-08-21	A1+	50kg	YES	VPO	baoli	Mumbai	250621	919897875800	jparas277@gmail.com	paras	paras
<input type="checkbox"/>	Edit Copy Delete	39	PARAS JAIN	MALE	2000-12-28	A1+	50	YES	Mumbai	baoli	Mumbai	411004	8524302585	jparas277@gmail.com	paras	1234567
<input type="checkbox"/>	Edit Copy Delete	40	PARAS JAIN	MALE	2000-11-28	A1+	50kg	YES	Mumbai	ANDHERI	Mumbai	411004	919897875800	jparas277@gmail.com	paras	789456

☐ Check all With selected: Edit Copy Delete Export

☐ Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

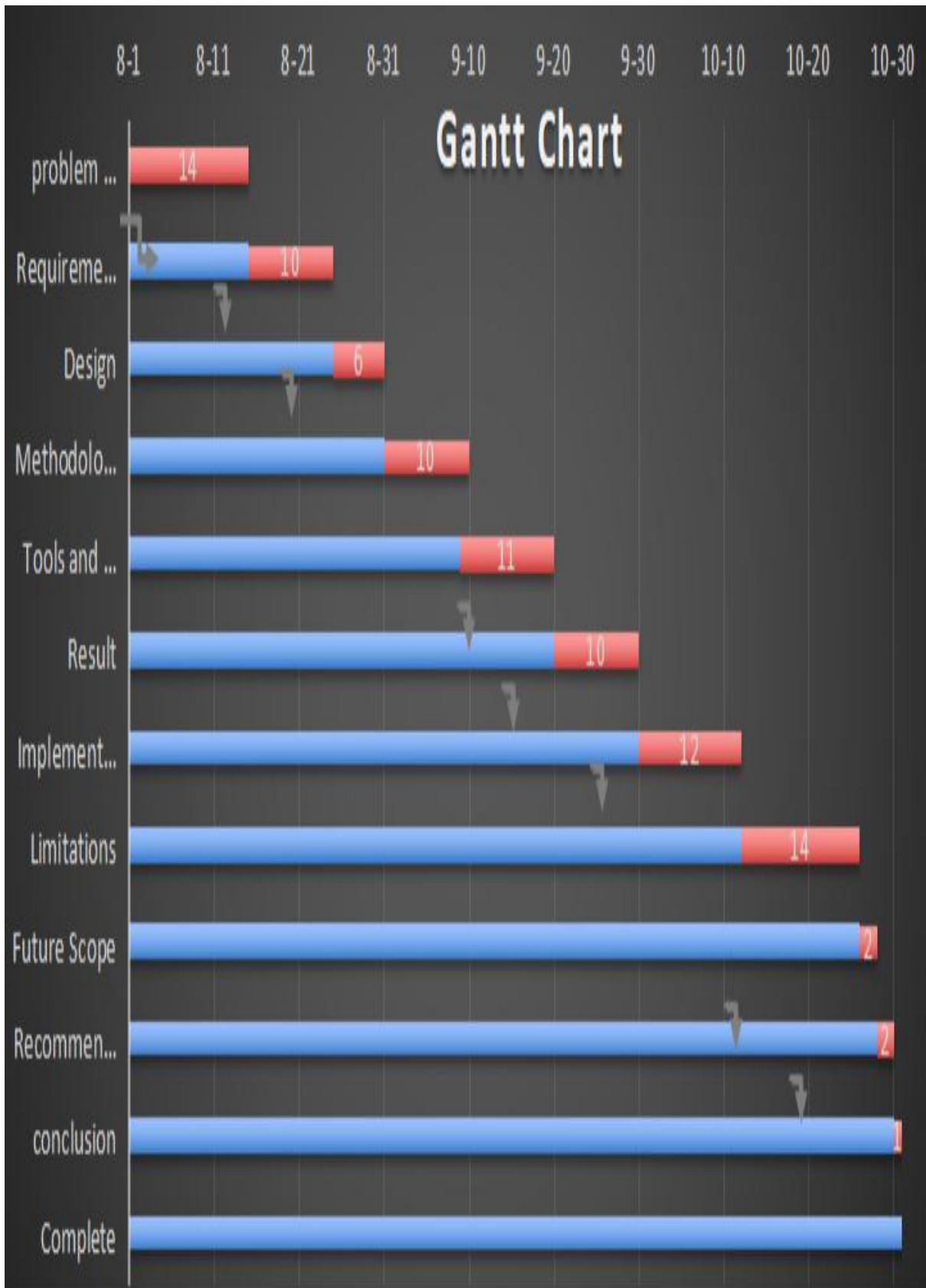
Console bookmark this SQL query

## **STAKEHOLDER**

**Patients in need for blood:** Patient who are in need of blood can easily take benefit of our application.

**Hospitals** : hospitals often require blood for transfusion and our application can make there work easier.





## **REFERENCES**

Vikas Kulshreshtha, Sharad Maheshwari. (2011).”Blood Bank Management Information System in India”, International Journal of Engineering, 1,2, 260-263.

E- Blood Bank & Research Foundation. (2012). Retrieved from **<https://ebloodbankodisha.nic.in/Websites/frontPage>**

Blood Bank Today. (2012). Retrieved from **<https://bloodbanktoday.com/>**

**[W3Schools Online Web Tutorials](#)** used for learning how to connect database to our website



## **CONCLUSION**

**Today the world is become a global village where every thing is online.**

**There are so many web based solutions provided in the marked for the comfort of the people.**

**But without blood human being is non living,just by providing the web solution of blood bank management info. System is just one more step in order to serve the mankind.**