

# DBMS - Mini Project

## Blood Bank Management

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V Semester

## Short Description and Scope of the Project

Blood bank Management System is an online software system that aids in the better management of blood banks. This project provides information on numerous deposits and receiving, as well as the accompanying details. This information comprises donor information, donation history, receiver information, receiving history, list of donors, stock, and so on.... These facts aid in the maintenance and monitoring of blood deposits and withdrawals. PHP and MySQL are used to create this web system.

### Scope of the Project

The system Functionalities and features of our system will include the following:

#### ADMIN

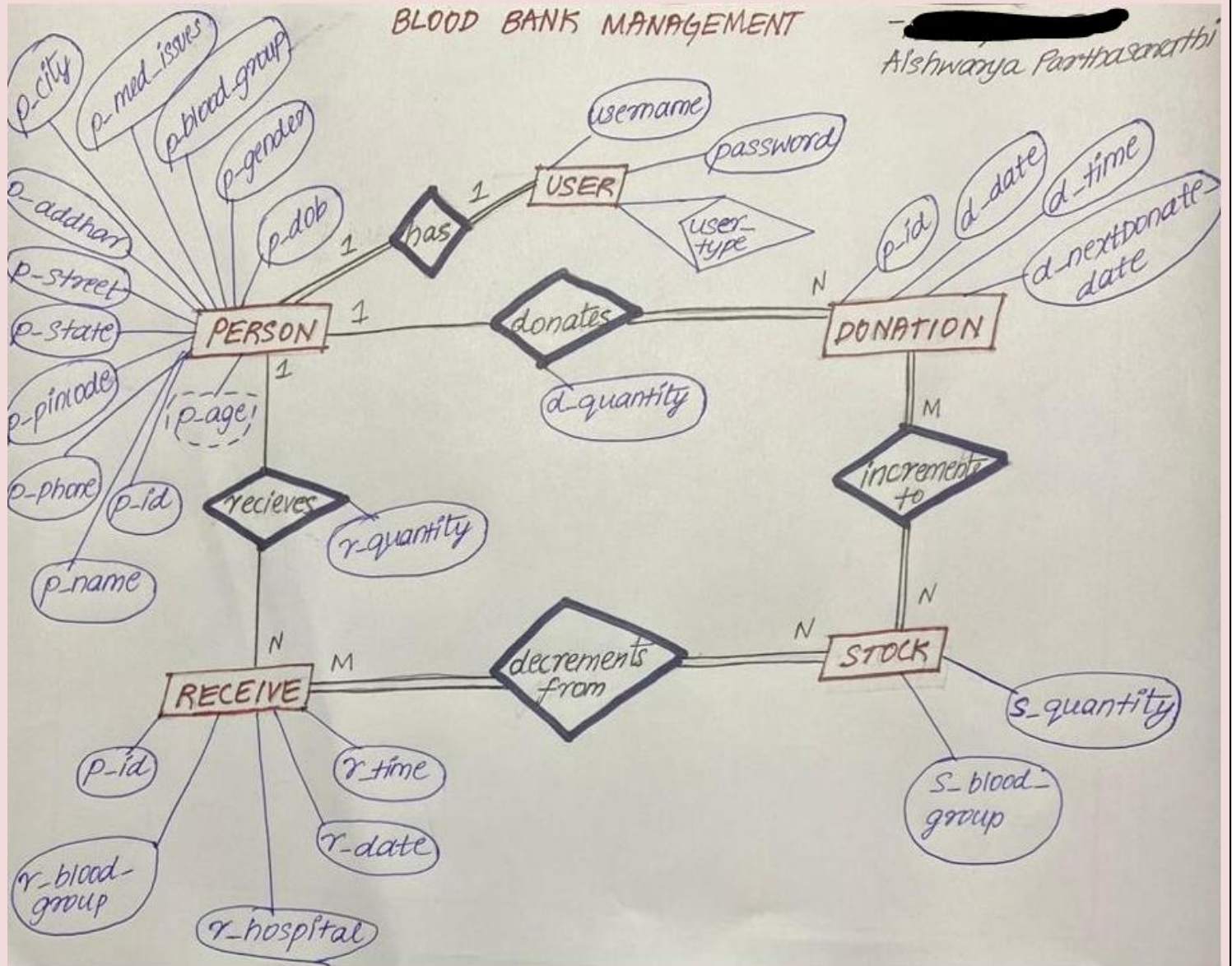
- Login  
This function allows the administrator to login to interact with the system.
- Add Person  
This function helps in registration of a new donor/receiver.
- Search Person  
we can search person using their uniquely generated P\_ID that is displayed while registration or also their Aadhar number.  
This function helps in getting the information of a donor/receiver including their donation and receiving history.
- Update Person  
This function helps in updating the donor/receiver details. Updating only part of the details has been taken care.
- New donation  
This function helps in adding new donations
- New receive  
This function helps in making new receiving.

- Check Stock  
This function keeps track of stock details.
- Donation History  
This function helps in viewing all donation made during a particular time interval.
- Receiving History  
This function helps in viewing all receiving made during a particular time interval.
- List Donors  
List the donor's name, blood group and their phone number if they are at present eligible to donate for any particular blood group selected.
- Add User  
This functionality allows the admin to add users i.e., Create login credentials for any Donor/Receiver.
- Delete User  
This functionality allows the admin to delete users i.e., Delete login credentials for any Donor/Receiver.

#### USER i.e.DONOR/RECEIVER

- Login  
This function requires the user to login to use his/her features.
- Request Blood  
This function allows the User to request blood for any blood group required. Admitted hospital and units of blood needed must be specified.
- My profile  
The User can view his details including his/her donations and receiving details

# ER Diagram



## Relational Schema

### BLOOD BANK MANAGEMENT

#### USER

username	password
----------	----------

Aishwarya  
Parthasarathi

#### PERSON

<u>p-id</u>	p-name	p-phone	p-dob	p-gender	p-blood-group	p-age
	p-med-issues	p-pincode	p-city	p-state	p-street	p-address

#### STOCK

s-blood-group	<u>s-quantity</u>
---------------	-------------------

#### DONATION

<u>p-id</u>	d-date	d-time	<u>d-quantity</u>	d-nextDonate-date
-------------	--------	--------	-------------------	-------------------

#### RECEIVE

<u>p-id</u>	r-date	r-time	<u>r-quantity</u>	r-hospital	r-blood-group
-------------	--------	--------	-------------------	------------	---------------

## DDL statements - Building the database

### 1. CREATE STATEMENTS

```
CREATE TABLE `donation` (  
  `p_id` int(10) NOT NULL,  
  `d_date` date NOT NULL,  
  `d_time` time NOT NULL,  
  `d_quantity` int(1) NOT NULL,  
  `d_nextDonate_date` date NOT NULL  
)
```

```
CREATE TABLE `person` (  
  `p_id` int(10) NOT NULL,  
  `p_name` varchar(25) NOT NULL,  
  `p_phone` char(10) NOT NULL,  
  `p_dob` date NOT NULL,  
  `p_gender` char(1) NOT NULL,  
  `p_blood_group` varchar(3) NOT NULL,  
  `p_med_issues` varchar(100) DEFAULT NULL,  
  `p_age` int(11) NOT NULL,  
  `p_pincode` int(6) NOT NULL,  
  `p_city` varchar(20) NOT NULL,  
  `p_state` varchar(50) NOT NULL,  
  `p_street` varchar(20) NOT NULL,  
  `p_addhar` varchar(20) NOT NULL  
)
```

```
CREATE TABLE `receive` (  
  `p_id` int(10) NOT NULL,  
  `r_date` date NOT NULL,  
  `r_time` time NOT NULL,  
  `r_quantity` int(1) NOT NULL,  
  `r_hospital` varchar(50) NOT NULL,  
  `r_blood_group` varchar(3) NOT NULL  
)
```

```
CREATE TABLE `stock` (  
  `s_blood_group` varchar(3) NOT NULL,  
  `s_quantity` int(5) NOT NULL DEFAULT 0  
)
```

```
CREATE TABLE `user` (  
  `username` varchar(10) NOT NULL,  
  `password` varchar(16) NOT NULL  
)
```

## 2. ALTER STATEMENTS

```
ALTER TABLE `donation`  
  ADD PRIMARY KEY (`p_id`,`d_date`,`d_time`);
```

```
ALTER TABLE `person`  
  ADD PRIMARY KEY (`p_id`);
```

```
ALTER TABLE `receive`  
  ADD PRIMARY KEY (`p_id`,`r_date`,`r_time`);
```

```
ALTER TABLE `stock`  
  ADD PRIMARY KEY (`s_blood_group`);
```

```
ALTER TABLE `user`  
  ADD PRIMARY KEY (`username`);
```

```
ALTER TABLE `person`  
  MODIFY `p_id` int(10) NOT NULL AUTO_INCREMENT;
```

```
ALTER TABLE `donation`  
  ADD CONSTRAINT `Donation_ibfk_1` FOREIGN KEY (`p_id`) REFERENCES `person` (`p_id`);
```

```
ALTER TABLE `receive`  
  ADD CONSTRAINT `Receive_ibfk_1` FOREIGN KEY (`p_id`) REFERENCES `person` (`p_id`);
```



## Populating the Database

```
INSERT INTO `stock` (`s_blood_group`, `s_quantity`) VALUES
('A+', 0),
('A-', 0),
('AB+', 0),
('AB-', 0),
('B+', 0),
('B-', 0),
('O+', 0),
('O-', 0);
```

```
INSERT INTO `user` (`username`, `password`) VALUES
('SuperAdmin', '12345678'),
('test_user', 'qwertyuiop');
```

“DUMPING THE OTHER TABLES IS DONE THROUGH FRONT END “



## Join Queries

### Showcase join queries

Write the query in English Language, Show the equivalent SQL statement and also a screenshot of the query and the results.

#### 1. To view donation history given a particular time line

```
MariaDB [blood_bank]> select d.d_date, d.d_time, d.d_quantity, p.p_id, p.p_name, p.p_phone, p.p_blood_group from Person p,Donation d where p.p_id = d.p_id and d.d_date >= '2022-11-10' and d.d_date <= '2022-11-20';
```

d_date	d_time	d_quantity	p_id	p_name	p_phone	p_blood_group
2022-11-16	03:50:00	1	2	rohit	9741623840	A-
2022-11-14	10:45:00	2	3	Akarsh	9741666999	O+
2022-11-16	03:46:00	1	3	Akarsh	9741666999	O+
2022-11-16	08:56:00	1	3	Akarsh	9741666999	O+
2022-11-16	09:00:00	1	3	Akarsh	9741666999	O+
2022-11-16	10:11:00	1	3	Akarsh	9741666999	O+
2022-11-15	01:04:00	1	5	Tenzin	8875642311	AB+
2022-11-16	04:26:00	1	10	Jai	8475693026	B+
2022-11-15	01:24:00	2	11	pandit	7654345670	AB-
2022-11-18	12:25:00	1	12	aarushi	7656564567	B-
2022-11-18	12:00:00	1	13	mansi	8601648899	O-

11 rows in set (0.001 sec)

```
MariaDB [blood_bank]>
```

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Blood Bank Management System


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localhost/blood-bank/Donation%20History.php

**BLOOD BANK MANAGEMENT SYSTEM**

Home

Add Person

Search Person

Search Person Addhar

Update Person

New Donation

New Receive

Check Stock

Donation History

Receiving History

List Donors

Add User

Delete User


Donation History

Specify time interval to view the donation history

After:  
10-11-2022

Before:  
20-11-2022

Search


**BLOOD BANK MANAGEMENT SYSTEM**

[Home](#)
[Add Person](#)
[Search Person](#)
[Search Person Addhar](#)
[Update Person](#)
[New Donation](#)
[New Receive](#)
[Check Stock](#)
[Donation History](#)
[Receiving History](#)
[List Donors](#)
[Add User](#)
[Delete User](#)

### Donation History

Personal ID	Name	Phone	Blood Group	Date	Time	Units of Blood
2	rohit	9741623840	A-	2022-11-16	03:50:00	1
3	Akarsh	9741666999	O+	2022-11-14	10:45:00	2
3	Akarsh	9741666999	O+	2022-11-16	03:46:00	1
3	Akarsh	9741666999	O+	2022-11-16	08:56:00	1
3	Akarsh	9741666999	O+	2022-11-16	09:00:00	1
3	Akarsh	9741666999	O+	2022-11-16	10:11:00	1
5	Tenzin	8875642311	AB+	2022-11-15	01:04:00	1
10	Jai	8475693026	B+	2022-11-16	04:26:00	1
11	pandit	7654345670	AB-	2022-11-15	01:24:00	2
12	aarushi	7656564567	B-	2022-11-18	12:25:00	1
13	mansi	8601648899	O-	2022-11-18	12:00:00	1

## 2. To view receiving history given a particular time line

```

MariaDB [blood_bank]> select r.r_date, r.r_time, r.r_hospital, r.r_quantity, p.p_id, p.p_name, p.phone, p.p_blood_group from Person p,Receive r where p.p_id = r.p_id and r.r_date >= '2022-11-08' and r.r_date <= '2022-11-18';

```


r_date	r_time	r_hospital	r_quantity	p_id	p_name	p_phone	p_blood_group
2022-11-14	11:22:00	xyz	1	2	rohit	9741623840	A-
2022-11-18	12:26:00	rose	1	2	rohit	9741623840	A-
2022-11-15	01:10:00	blue moon	1	3	Akarsh	9741666999	O+
2022-11-16	10:04:00	lake	1	4	reema	9876342561	A-
2022-11-16	07:21:00	sagar	1	6	Inaya	6643212354	AB-
2022-11-15	02:33:00	green sky	1	7	Agastya	8767554323	B+
2022-11-15	02:40:00	yellow lilies	1	9	Diya	7878989811	O-
2022-11-16	09:01:00	devagiri	1	9	Diya	7878989811	O-
2022-11-17	10:19:00	fortis	1	9	Diya	7878989811	O-
2022-11-16	10:06:00	acbd	1	10	Jai	8475693026	B+

10 rows in set (0.001 sec)

```

MariaDB [blood_bank]>

```


**BLOOD BANK MANAGEMENT SYSTEM**


[Home](#)
[Add Person](#)
[Search Person](#)
[Search Person Addhar](#)
[Update Person](#)
[New Donation](#)
[New Receive](#)
[Check Stock](#)
[Donation History](#)
[Receiving History](#)
[List Donors](#)
[Add User](#)
[Delete User](#)

### Receiving History

Specify time interval to view the Receiving history

After:

Before:


**BLOOD BANK MANAGEMENT SYSTEM**

Home

Add Person

Search Person

Search Person Addhar

Update Person

New Donation

New Receive

Check Stock

Donation History

Receiving History

List Donors

Add User

Delete User

### Receiving History

Personal ID	Name	Phone	Blood Group	Date	Time	Units of Blood	Hospital
2	rohit	9741623840	A-	2022-11-14	11:22:00	1	xyz
2	rohit	9741623840	A-	2022-11-18	12:26:00	1	rose
3	Akarsh	9741666999	O+	2022-11-15	01:10:00	1	blue moon
4	reema	9876342561	A-	2022-11-16	10:04:00	1	lake
6	Inaya	6643212354	AB-	2022-11-16	07:21:00	1	sagar
7	Agastya	8767554323	B+	2022-11-15	02:33:00	1	green sky
9	Diya	7878989811	O-	2022-11-15	02:40:00	1	yellow lilies
9	Diya	7878989811	O-	2022-11-16	09:01:00	1	devagiri
9	Diya	7878989811	O-	2022-11-17	10:19:00	1	fortis
10	Jai	8475693026	B+	2022-11-16	10:06:00	1	acbd

- To ensure that only users with 6 months gap from their previous donation and no medical issues can donate

```

MariaDB [blood_bank]> select * from donation;
+-----+-----+-----+-----+-----+
| p_id | d_date | d_time | d_quantity | d_nextDonate_date |
+-----+-----+-----+-----+-----+
| 1 | 2022-10-27 | 08:48:00 | 2 | 2023-04-27 |
| 1 | 2022-11-06 | 10:32:00 | 2 | 2023-05-06 |
| 1 | 2022-11-06 | 11:47:00 | 1 | 2023-05-06 |
| 2 | 2022-01-06 | 02:41:00 | 1 | 2022-07-06 |
| 2 | 2022-10-27 | 09:25:00 | 3 | 2022-04-27 |
| 2 | 2022-11-16 | 03:50:00 | 1 | 2023-05-16 |
| 3 | 2022-11-14 | 10:45:00 | 2 | 2023-05-06 |
| 3 | 2022-11-16 | 03:46:00 | 1 | 2023-05-16 |
| 3 | 2022-11-16 | 08:56:00 | 1 | 2023-05-16 |
| 3 | 2022-11-16 | 09:00:00 | 1 | 2023-05-16 |
| 3 | 2022-11-16 | 10:11:00 | 1 | 2023-05-16 |
| 4 | 2022-11-06 | 04:15:00 | 1 | 2023-05-06 |
| 5 | 2022-02-12 | 08:23:00 | 1 | 2022-08-12 |
| 5 | 2022-11-15 | 01:04:00 | 1 | 2023-05-15 |
| 8 | 2021-12-02 | 04:50:00 | 1 | 2022-06-02 |
| 10 | 2021-12-12 | 08:22:00 | 1 | 2022-06-12 |
| 10 | 2022-01-12 | 09:16:00 | 2 | 2022-07-12 |
| 10 | 2022-11-16 | 04:26:00 | 1 | 2023-05-16 |
| 11 | 2022-10-16 | 08:43:00 | 1 | 2023-04-16 |
| 11 | 2022-11-15 | 01:24:00 | 2 | 2023-05-15 |
| 12 | 2022-04-11 | 01:36:00 | 1 | 2022-10-11 |
| 12 | 2022-11-18 | 12:25:00 | 1 | 2023-05-18 |
| 13 | 2022-03-08 | 01:40:00 | 1 | 2022-09-08 |
| 13 | 2022-11-18 | 12:00:00 | 1 | 2023-05-18 |
+-----+-----+-----+-----+-----+
24 rows in set (0.000 sec)

```

```

MariaDB [blood_bank]> select * from person where p_id = 8 ;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| p_id | p_name | p_phone | p_dob | p_gender | p_blood_group | p_med_issues | p_age | p_pincode | p_city | p_state | p_street | p_addhar |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 8 | shann | 6535621100 | 1999-06-21 | m | B- | none | 23 | 517001 | Chittoor | Andra pradesh | #87, vinayaka puram | 3811-9089-0989 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [blood_bank]>

```

Only user 8 can donate at present as his medical issue and time interval satisfies the condition.

```

MariaDB [blood_bank]> SELECT donation.p_id , max(d_nextDonate_date) as Next_Donation FROM DONATION , PERSON WHERE donation.p_id = '8' AND person.p_med_issues not like 'no%' GROUP BY donation.p_id HAVING max(d_nextDonate_date) <= curdate();
+-----+-----+
| p_id | Next_Donation |
+-----+-----+
| 8    | 2022-06-02    |
+-----+-----+
1 row in set (0.354 sec)

MariaDB [blood_bank]>

```

Blood Bank Management System

localhost/blood-bank/New%20Donation.php

**BLOOD BANK MANAGEMENT SYSTEM**

Home	<b>New Donation</b>
Add Person	Personal Id: 8
Search Person	Units of blood donated: 1
Search Person Addhar	Submit
Update Person	
New Donation	
New Receive	
Check Stock	
Donation History	
Receiving History	
List Donors	
Add User	
Delete User	

Blood Bank Management System

localhost/blood-bank/newDonation.php

**BLOOD BANK MANAGEMENT SYSTEM**

Home	your donation is succesful
Add Person	
Search Person	
Search Person Addhar	
Update Person	
New Donation	
New Receive	
Check Stock	
Donation History	
Receiving History	
List Donors	
Add User	
Delete User	

User 13 cannot donate as his minimum time interval between donations is not satisfied.

```

MariaDB [blood_bank]> SELECT donation.p_id , max(d_nextDonate_date) as Next_Donation FROM DONATION , PERSON WHERE donation.p_id = '13' AND person.p_med_issues not like 'no%' GROUP BY donation.p_id HAVING max(d_nextDonate_date) <= curdate();
Empty set (0.001 sec)

MariaDB [blood_bank]>

```

Blood Bank Management System

localhost/blood-bank/New%20Donation.php

**BLOOD BANK MANAGEMENT SYSTEM**

Home	<b>New Donation</b>
Add Person	Personal Id: 13
Search Person	Units of blood donated: 1
Search Person Addhar	Submit
Update Person	
New Donation	
New Receive	
Check Stock	
Donation History	
Receiving History	
List Donors	
Add User	
Delete User	

Blood Bank Management System

localhost/blood-bank/newDonation.php

**BLOOD BANK MANAGEMENT SYSTEM**

Home	Sorry to inform that you are not eligible to donate!
Add Person	
Search Person	
Search Person Addhar	
Update Person	
New Donation	
New Receive	
Check Stock	
Donation History	
Receiving History	
List Donors	
Add User	
Delete User	

# Aggregate Functions

## Showcase function queries

Write the query in English Language, Show the equivalent SQL statement and also a screenshot of the query and the result

1. To know the number of registrations the blood bank has got.

```
MariaDB [blood_bank]> select count(p_id) from Person;
+-----+
| count(p_id) |
+-----+
|          14 |
+-----+
1 row in set (0.001 sec)

MariaDB [blood_bank]>
```

2. To know the number of donations the blood bank has got.

```
MariaDB [blood_bank]> select count(p_id) from Donation;
+-----+
| count(p_id) |
+-----+
|          24 |
+-----+
1 row in set (0.001 sec)

MariaDB [blood_bank]>
```

3. To know the number of times the blood bank has given blood in case of emergency.

```
MariaDB [blood_bank]> select count(p_id) from Receive;
+-----+
| count(p_id) |
+-----+
|          12 |
+-----+
1 row in set (0.001 sec)

MariaDB [blood_bank]>
```

All the above queries are implemented in home page of the project.

**BLOOD BANK MANAGEMENT SYSTEM** Logout

- Home
- Add Person
- Search Person
- Search Person Aadhar
- Update Person
- New Donation
- New Receive
- Check Stock
- Donation History
- Receiving History
- List Donors
- Add User
- Delete User

### why donate blood ?

Blood is the most precious gift that anyone can give to another person the gift of life. A decision to donate your blood can save a life, or even several if your blood is separated into its components red cells, platelets and plasma which can be used individually for patients with specific conditions.

### Who Can donate ?

You must be in good health at the time you donate. You cannot donate if you have a cold, flu, sore throat, cold sore, stomach bug or any other infection. If you have recently had a tattoo or body piercing you cannot donate for 6 months from the date of the procedure.

### Our Goal

We have got registrations from 14 people  
We got donations of about 24 from registered persons  
We gave blood for around 12 times to the registered people from our stock in case of emergency  
We are glad to say that we have made a successful service to the society

## Set Operations

Showcase Set Operations queries

Write the query in English Language, Show the equivalent SQL statement and also a screenshot of the query and the results

1. Listing the number of registered donors who donated blood ages 20-30 years and older male and female donors who also donated blood.

```
MariaDB [blood_bank]> select p_name as name ,p_gender as gender ,p_age as age
-> from person p
-> where p_age >= 20 and p_age <= 30 and p_med_issues like 'n%'
-> union
-> select p_name,p_gender,max(p_age)
-> from person p
-> where p_gender='M' and p_med_issues like 'n%'
-> union
-> select p_name,p_gender,max(p_age)
-> from person p
-> where p_gender='F' and p_med_issues like 'n%';
+-----+-----+-----+
| name  | gender | age  |
+-----+-----+-----+
| Tenzin | m      | 26   |
| shann  | m      | 23   |
| Jai    | m      | 29   |
| aarushi | f      | 20   |
| mansi  | f      | 26   |
| rohit  | m      | 52   |
| Anushka | f      | 47   |
+-----+-----+-----+
7 rows in set (0.001 sec)

MariaDB [blood_bank]>
```

2. Listing the registered donors who donated blood and who belong to the blood group considered universe donor, as well as the patients who belong to the blood group considered universal recipient.

```
MariaDB [blood_bank]> select p_id as id,p_name as name,p_blood_group as blood_group
-> from person
-> where p_blood_group = 'O-' and p_med_issues like 'n%'
-> union
-> select p_id as id,p_name as name,p_blood_group as blood_group
-> from person
-> where p_blood_group = 'AB+';
+-----+-----+-----+
| id | name  | blood_group |
+-----+-----+-----+
| 13 | mansi | O-          |
| 14 | anjali | O-          |
| 5  | Tenzin | AB+         |
+-----+-----+-----+
3 rows in set (0.001 sec)

MariaDB [blood_bank]>
```

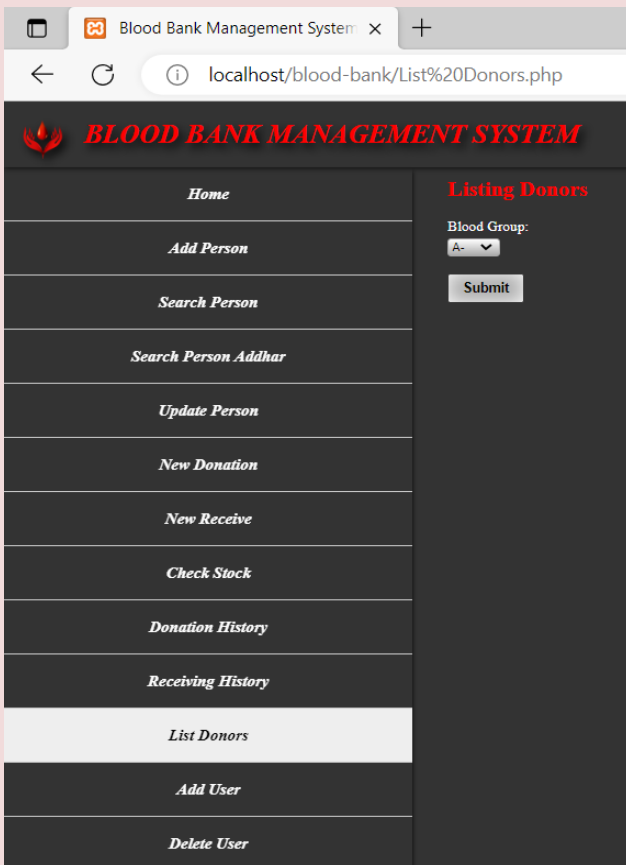
## Procedures

Create a Procedure. State the objective of the Procedure. Run and display the results.

Objective:

Listing all users of particular blood group who are eligible to donate if their specific blood group is selected.

```
1 DELIMITER $$
2 CREATE procedure Donors(IN b_type varchar (3))
3 BEGIN
4 DELETE FROM Donor_list;
5 INSERT INTO Donor_list
6 SELECT p_id, p_name, p_blood_group, p_phone
7 FROM person
8 WHERE p_blood_group = b_type AND p_med_issues like 'n%';
9
10 END;$$
11 DELIMITER ;
```



**BLOOD BANK MANAGEMENT SYSTEM**

*Home*

*Add Person*

*Search Person*

*Search Person Addhar*

*Update Person*

*New Donation*

*New Receive*

*Check Stock*

*Donation History*

*Receiving History*

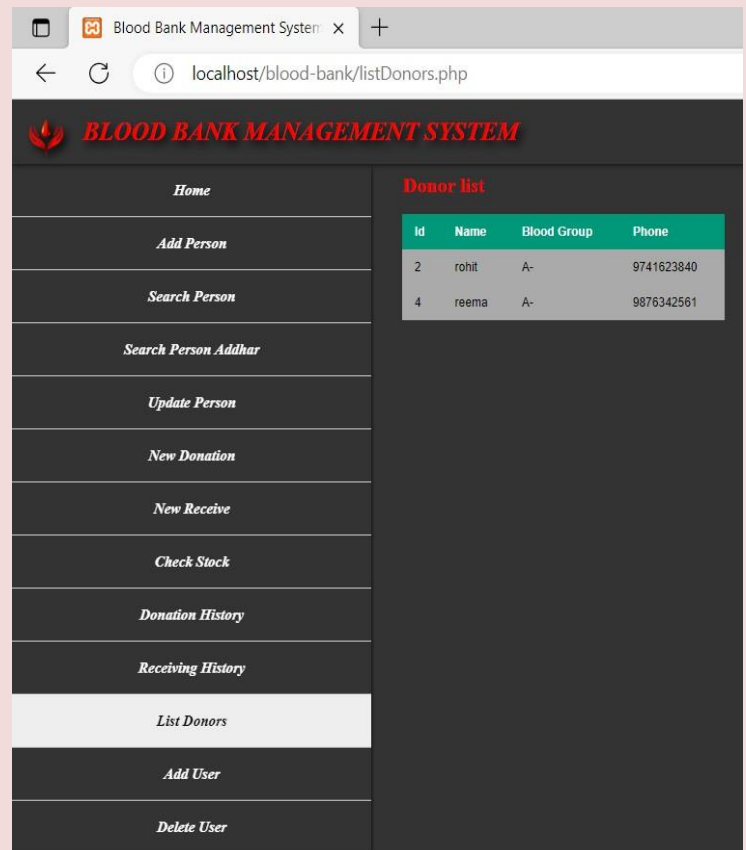
*List Donors*

*Add User*

*Delete User*

**Listing Donors**

Blood Group:  
A-  
Submit



**BLOOD BANK MANAGEMENT SYSTEM**

*Home*

*Add Person*

*Search Person*

*Search Person Addhar*

*Update Person*

*New Donation*

*New Receive*

*Check Stock*

*Donation History*

*Receiving History*

*List Donors*

*Add User*

*Delete User*

**Donor list**

Id	Name	Blood Group	Phone
2	rohit	A-	9741623840
4	reema	A-	9876342561



# Triggers

Create a Trigger. State the objective. Run and display the results.

Objective:


1. To update stock after a donation is successfully completed.

```
triggerD x
1 DELIMITER $$
2 CREATE TRIGGER aft_d
3 AFTER INSERT
4 ON Donation FOR EACH ROW
5 BEGIN
6
7 SELECT p_id, new.d_quantity ,max(d_date) d_date INTO @p_id ,@d_quantity ,@d_date
8 FROM DONATION
9 WHERE p_id = new.p_id
10 GROUP BY p_id;
11
12 UPDATE Stock SET s_quantity = s_quantity + @d_quantity where Stock.s_blood_group = (select p_blood_group FROM Person where p_id = @p_id);
13
14 END $$
15 DELIMITER ;
```

Initial stock

Blood Bank Management System

localhost/blood-bank/Check%20Stock.php

 **BLOOD BANK MANAGEMENT SYSTEM**

Home

Add Person

Search Person

Search Person Address

Update Person

New Donation

New Receive

Check Stock

Donation History

Receiving History

List Donors

Add User

Delete User


Stock

Blood Group	Units of blood
A+	3
A-	4
AB+	2
AB-	2
B+	2
B-	2
O+	2
O-	1

After donation

Blood Bank Management System

localhost/blood-bank/New%20Donation.php



**BLOOD BANK MANAGEMENT SYSTEM**

Home

Add Person

Search Person

Search Person Addhar

Update Person

New Donation

New Receive

Check Stock

Donation History

Receiving History

List Donors

Add User

Delete User

New Donation


Personal Id:

Units of blood donated:

Submit

Blood Bank Management System

localhost/blood-bank/newDonation.php



**BLOOD BANK MANAGEMENT SYSTEM**

Home

Add Person

Search Person

Search Person Addhar

Update Person

New Donation

New Receive

Check Stock

Donation History

Receiving History

List Donors


Add User

Delete User

your donation is succesful

Blood Bank Management System

localhost/blood-bank/Check%20Stock.php

<div><div></div><div><b>BLOOD BANK MANAGEMENT SYSTEM</b></div></div> <div><div>Home</div><div>Add Person</div><div>Search Person</div><div>Search Person Addhar</div><div>Update Person</div><div>New Donation</div><div>New Receive</div><div>Check Stock</div><div>Donation History</div><div>Receiving History</div><div>List Donors</div><div>Add User</div><div>Delete User</div></div>	<div>Stock</div> <table><tr><th>Blood Group</th><th>Units of blood</th></tr><tr><td>A+</td><td>3</td></tr><tr><td>A-</td><td>4</td></tr><tr><td>AB+</td><td>2</td></tr><tr><td>AB-</td><td>2</td></tr><tr><td>B+</td><td>2</td></tr><tr><td>B-</td><td>3</td></tr><tr><td>O+</td><td>2</td></tr><tr><td>O-</td><td>1</td></tr></table>	Blood Group	Units of blood	A+	3	A-	4	AB+	2	AB-	2	B+	2	B-	3	O+	2	O-	1
Blood Group	Units of blood																		
A+	3																		
A-	4																		
AB+	2																		
AB-	2																		
B+	2																		
B-	3																		
O+	2																		
O-	1																		

Objective:


2. To update stock after a new receive/request for blood is successfully completed.

```
triggerR x
1 DELIMITER $$
2 • CREATE TRIGGER aft_r
3 AFTER INSERT
4 ON RECEIVE FOR EACH ROW
5 BEGIN
6
7
8 SELECT r_blood_group, r_quantity ,max(r_date) r_date INTO @r_blood_group ,@r_quantity ,@r_date
9 FROM RECEIVE
10 WHERE r_blood_group = new.r_blood_group
11 GROUP BY r_blood_group;
12
13
14 update Stock SET s_quantity = s_quantity - @r_quantity where s_blood_group = new.r_blood_group;
15 END $$
16 DELIMITER ;
```

Initial stock

Blood Bank Management System x

localhost/blood-bank/Check%20Stock.php

**BLOOD BANK MANAGEMENT SYSTEM**

Home

Add Person

Search Person

Search Person Addhar

Update Person

New Donation

New Receive

Check Stock

Donation History

Receiving History

List Donors

Add User

Delete User


Stock

Blood Group	Units of blood
A+	3
A-	4
AB+	2
AB-	2
B+	2
B-	3
O+	2
O-	1

After new receive

Blood Bank Management System

localhost/blood-bank/New%20Receive.php

 **BLOOD BANK MANAGEMENT SYSTEM**

Home

Add Person

Search Person

Search Person Addhar

Update Person

New Donation

New Receive

Check Stock

Donation History

Receiving History

List Donors

Add User

Delete User

New Receive

Personal Id:

Blood Group:  

B+ ▾


Units of blood Needed:

Admitted Hospital:

Submit

Blood Bank Management System

localhost/blood-bank/newReceive.php

 **BLOOD BANK MANAGEMENT SYSTEM**

Home

Add Person

Search Person

Search Person Addhar

Update Person

New Donation

New Receive

Check Stock

Donation History

Receiving History

List Donors

Add User

Delete User


available quantity : 2

units requested : 1

your Receiving is succesful

Blood Bank Management System

localhost/blood-bank/Check%20Stock.php

<div> <b>BLOOD BANK MANAGEMENT SYSTEM</b></div> <div><div>Home</div><div>Add Person</div><div>Search Person</div><div>Search Person Addhar</div><div>Update Person</div><div>New Donation</div><div>New Receive</div><div>Check Stock</div><div>Donation History</div><div>Receiving History</div><div>List Donors</div><div>Add User</div><div>Delete User</div></div>	<div>Stock</div> <table><tr><th>Blood Group</th><th>Units of blood</th></tr><tr><td>A+</td><td>3</td></tr><tr><td>A-</td><td>4</td></tr><tr><td>AB+</td><td>2</td></tr><tr><td>AB-</td><td>2</td></tr><tr><td>B+</td><td>1</td></tr><tr><td>B-</td><td>3</td></tr><tr><td>O+</td><td>2</td></tr><tr><td>O-</td><td>1</td></tr></table>	Blood Group	Units of blood	A+	3	A-	4	AB+	2	AB-	2	B+	1	B-	3	O+	2	O-	1
Blood Group	Units of blood																		
A+	3																		
A-	4																		
AB+	2																		
AB-	2																		
B+	1																		
B-	3																		
O+	2																		
O-	1																		

## Developing a Frontend

The frontend should support

1. Addition, Modification and Deletion of records from any chosen table
2. There should be a window to accept and run any SQL statement and display the result

✓ Adding new Person

### Initial list of persons

```
MariaDB [blood_bank]> select * from person;
```

p_id	p_name	p_phone	p_dob	p_gender	p_blood_group	p_med_issues	p_age	p_pincode	p_city	p_state	p_street	p_addhar
1	Anushka	7654567897	1990-10-05	f	A+	No	32	600007	Chennai	Tamil Nadu	32,post-off street	4567-9087-9087
2	rohit	9741623840	1983-08-27	m	A-	no	39	522001	guntur	Andra pradesh	#6, NGO colony	7211-3456-7890
3	Akarsh	9741666999	2000-12-20	m	O+	diabetic	21	560070	Bangalore	Karnataka	#72,Banashankari 2nd stage	2111-8765-0989
4	reema	9876342561	1975-10-06	f	A-	No	47	673303	elathur	kerala	32,lake view	4567-9087-9080
5	Tenzin	8875642311	1996-04-14	m	AB+	none	26	560047	Bangalore	Karnataka	#11, Austin Town	6543-0987-5643
6	Inaya	6643212354	1972-02-04	f	AB-	Asthma	50	400050	Mumbai	Maharastra	#31, 4th main, Bandra West	7654-8876-9088
7	Agastya	8767554323	1978-04-28	m	B+	leukemia	44	400091	Mumbai	Maharastra	#44,1st main, Borivali	2231-9089-6666
8	shann	6535621100	1999-06-21	m	B-	none	23	517001	Chittoor	Andra pradesh	#87, vinayaka puram	3811-9089-0989
9	Diya	7878989811	1992-12-26	f	O-	High blood pressure	29	600040	Chennai	Tamil Nadu	#786, blue fields, Anna Nagar	3456-0987-6767
10	Jai	8475693026	1993-07-07	m	B+	none	29	695614	Thiruvananthapuram	kerala	#56, green bay colony	5674-0945-4545
11	pandit	7654345670	1970-06-05	m	AB-	no	52	110006	Dareeba	Delhi	#98, red Gully Road	4532-8877-9911
12	aarushi	7656564567	2002-08-24	f	B-	no	20	560006	Bangalore	Karnataka	#45, watson road	6556-9089-9675
13	mansi	8601648899	1996-03-25	f	O-	no	26	560076	bangalore	karnataka	#66, lily colony	5645-9821-9823
14	anjali	8976543245	1990-05-02	f	O-	none	32	572130	Bangalore	karnataka	#7,gully road	7654-0987-2341

14 rows in set (0.001 sec)

```
MariaDB [blood_bank]>
```


### After operation is completed

🏠

Blood Bank Management System

+

localhost/blood-bank/Add%20Person.php



**BLOOD BANK MANAGEMENT SYSTEM**

Home

Add Person

Search Person

Search Person Addhar

Update Person

New Donation

New Receive

Check Stock

Donation History

Receiving History

List Donors

Add User

Delete User

**New Registration**

Name:  
ankith

Addhar:  
9833-1234-6743

Phone Number:  
7723451622

Gender:  
☐ Male  
☒ Female  
☐ Other

Date of birth:  
06-02-1992

Blood Group:  
AB+

Pincode:  
600088

City:  
chennai

State:  
tamil nadu

Street:  
new nggo colony

Medical Issues(if any):  
Anemia


Register

🏠

Blood Bank Management System

+

localhost/blood-bank/addPerson.php



**BLOOD BANK MANAGEMENT SYSTEM**

Home

Add Person

Search Person

Search Person Addhar

Update Person

New Donation

New Receive

Check Stock

Donation History

Receiving History

List Donors

Add User

Delete User

**CONGRATULATIONS!!**  
ankith

Your registration is succesful.

Personal Id : 15

Name : ankith

Addhar : 9833-1234-6743

Phone Number: 7723451622

DOB : 1992-02-06

Blood Group : AB+

Gender : Male

Pincode : 600088

City : chennai

State : tamil nadu

Street : new nggo colony

Medical Issues : Anemia


NOTE: Please keep your Personal Id for future reference!!!

```
MariaDB [blood_bank]> select * from person;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| p_id | p_name | p_phone | p_dob | p_gender | p_blood_group | p_med_issues | p_age | p_pincode | p_city | p_state | p_street | p_addhar |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Anushka | 7654567897 | 1990-10-05 | f | A+ | No | 32 | 600007 | Chennai | Tamil Nadu | 32,post-off street | 4567-9087-9087 |
| 2 | rohit | 9741623840 | 1983-08-27 | m | A- | no | 39 | 522001 | guntur | Andra pradesh | #6, NGO colony | 7211-3456-7890 |
| 3 | Akarsh | 9741666999 | 2000-12-20 | m | O+ | diabetic | 21 | 560070 | Bangalore | Karnataka | #72,Banashankari 2nd stage | 2111-8765-0989 |
| 4 | reema | 9876342561 | 1975-10-06 | f | A- | No | 47 | 673303 | elathur | kerala | 32,lake view | 4567-9087-9080 |
| 5 | Tenzin | 8875642311 | 1996-04-14 | m | AB+ | none | 26 | 560047 | Bangalore | Karnataka | #11, Austin Town | 6543-0987-5643 |
| 6 | Inaya | 6643212354 | 1972-02-04 | f | AB- | Asthma | 50 | 400050 | Mumbai | Maharastra | #31, 4th main, Bandra West | 7654-8876-9088 |
| 7 | Agastya | 8767554323 | 1978-04-28 | m | B+ | leukemia | 44 | 400091 | Mumbai | Maharastra | #44,1st main, Borivali | 2231-0989-6666 |
| 8 | shann | 6535621100 | 1999-06-21 | m | B- | none | 23 | 517001 | Chittoor | Andra pradesh | #87, vinayaka puram | 3811-9089-0989 |
| 9 | Diya | 7878989811 | 1992-12-26 | f | O- | High blood pressure | 29 | 600040 | Chennai | Tamil Nadu | #786, blue fields, Anna Nagar | 3456-0987-6767 |
| 10 | Jai | 8475693026 | 1993-07-07 | m | B+ | none | 29 | 695614 | Thiruvananthapuram | kerala | #56, green bay colony | 5674-0945-4545 |
| 11 | pandit | 7654345670 | 1970-06-05 | m | AB- | no | 52 | 110006 | Dareeba | Delhi | #98, red Gully Road | 4532-8877-9911 |
| 12 | aarushi | 7656564567 | 2002-08-24 | f | B- | no | 20 | 560006 | Bangalore | Karnataka | #45, watson road | 6556-9089-9675 |
| 13 | mansi | 8601648899 | 1996-03-25 | f | O- | no | 26 | 560076 | Bangalore | karnataka | #66, lily colony | 5645-9821-9823 |
| 14 | anjali | 8976543245 | 1990-05-02 | f | O- | none | 32 | 572130 | Bangalore | karnataka | #7,gully road | 7654-0987-2341 |
| 15 | ankith | 7723451622 | 1992-02-06 | m | AB+ | Anemia | 30 | 600088 | chennai | tamil nadu | new nggo colony | 9833-1234-6743 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

15 rows in set (0.001 sec)

MariaDB [blood_bank]>
```

✓ Search Person

**BLOOD BANK MANAGEMENT SYSTEM**

Home

Add Person

Search Person

Search Person Addhar

Update Person

New Donation

New Receive

Check Stock

Donation History

Receiving History

List Donors


Add User

Delete User

Search Person

Personal ID:

Submit

**BLOOD BANK MANAGEMENT SYSTEM**

Home

Add Person

Search Person

Search Person Addhar

Update Person

New Donation

New Receive

Check Stock

Donation History

Receiving History

List Donors

Add User

Delete User

Akarsh

Personal Id : 3

Name : Akarsh

Addhar : 2111-8765-0989

Phone Number: 9741666999

DOB : 2000-12-20

Blood Group : O+

Gender : Male

Pincode : 560070

City : Bangalore

State : Karnataka

Street : #72,Banashankari 2nd stage

Medical Issues : diabetic

Donation History

Date of Donation	Time of Donation	Units of blood
2022-11-14	10:45:00	2
2022-11-16	03:46:00	1
2022-11-16	08:56:00	1
2022-11-16	09:00:00	1
2022-11-16	10:11:00	1

Receiving History

Date of Receive	Time of Receive	Units of Blood	Hospital	Blood Group
2022-11-06	10:22:00	1	paris	A+
2022-11-15	01:10:00	1	blue moon	A-



## ✓ Update Person

📄

Blood Bank Management System


×

+

←

↻

📄 localhost/blood-bank/Update%20Person.php

**BLOOD BANK MANAGEMENT SYSTEM**

Home

Add Person

Search Person

Search Person Addhar

Update Person

New Donation

New Receive

Check Stock

Donation History

Receiving History

List Donors

Add User

Delete User

Update Person

Enter Personal ID:

Phone Number:

Pincode:

City:

State:

Street:

Medical Issues(if any):

Submit

📄

Blood Bank Management System

×


+

←

↻

📄 localhost/blood-bank/updatePerson.php

🔊 🔍

**BLOOD BANK MANAGEMENT SYSTEM**

Home

Add Person

Search Person

Search Person Addhar

Update Person

New Donation

New Receive

Check Stock

Donation History

Receiving History

List Donors

Add User

Delete User

User Pincode Updated Successfully !

User City Updated Successfully !

User state Updated Successfully !

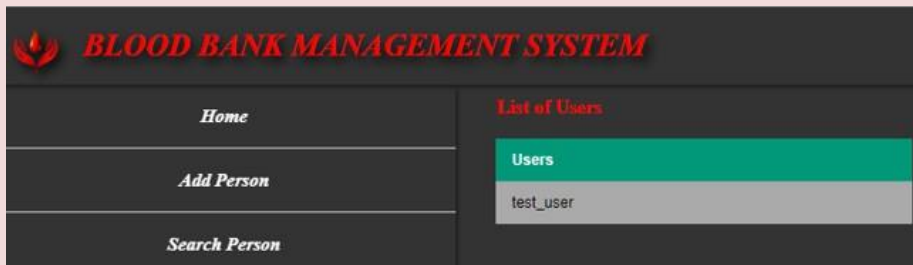
User street Updated Successfully !

Name	Phone	DOB	Gender	Blood Group	Med Issues	Age	Pin Code	City	State	Street	Addhar
ankith	7723451622	1992-02-06	m	AB+	Anemia	30	560080	bangalore	karnataka	Banayan tree colony	9833-1234-6743

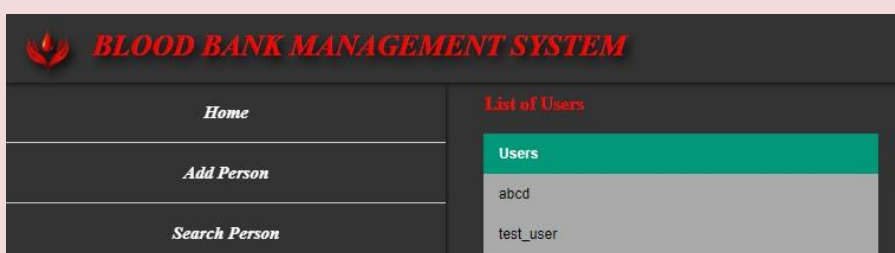
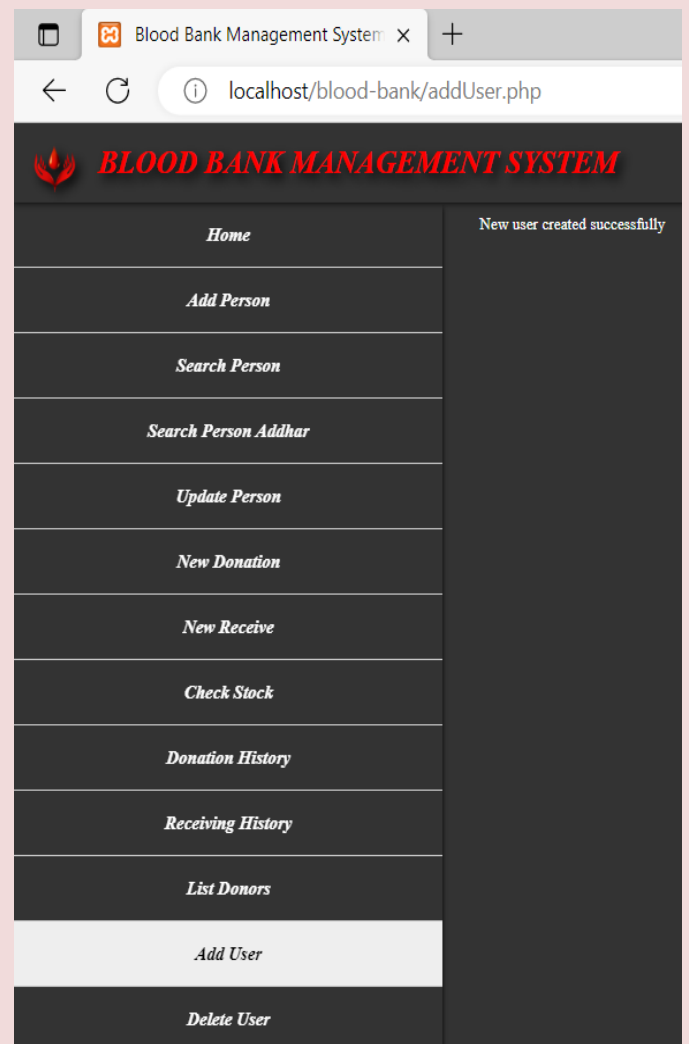
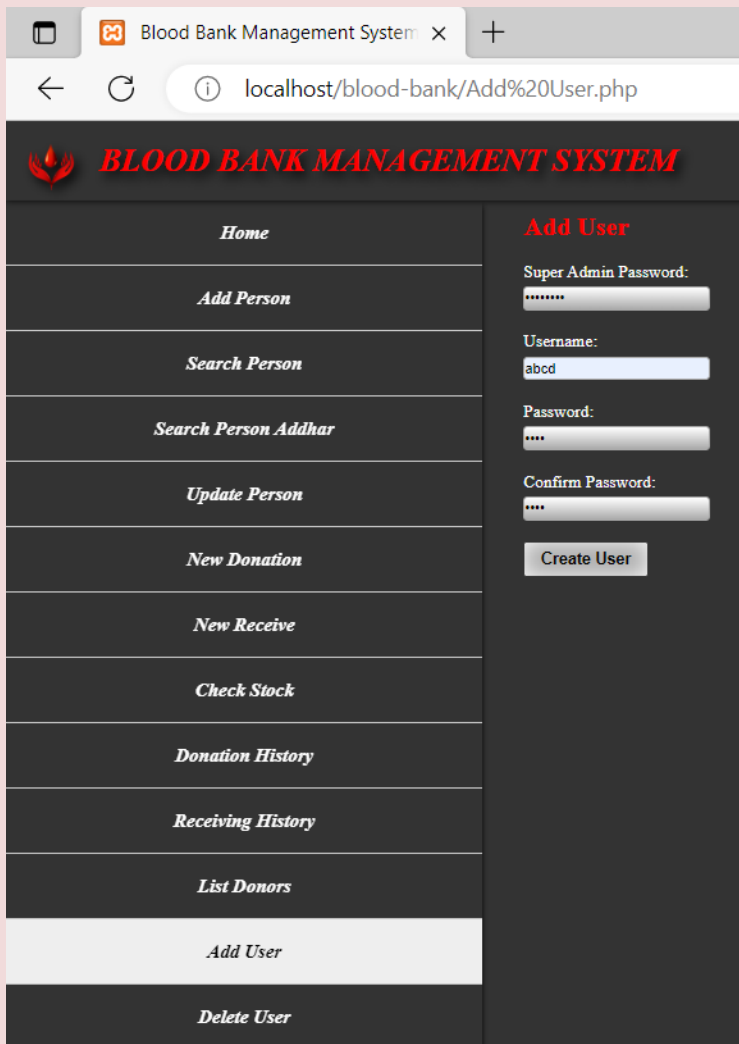


✓ Add user

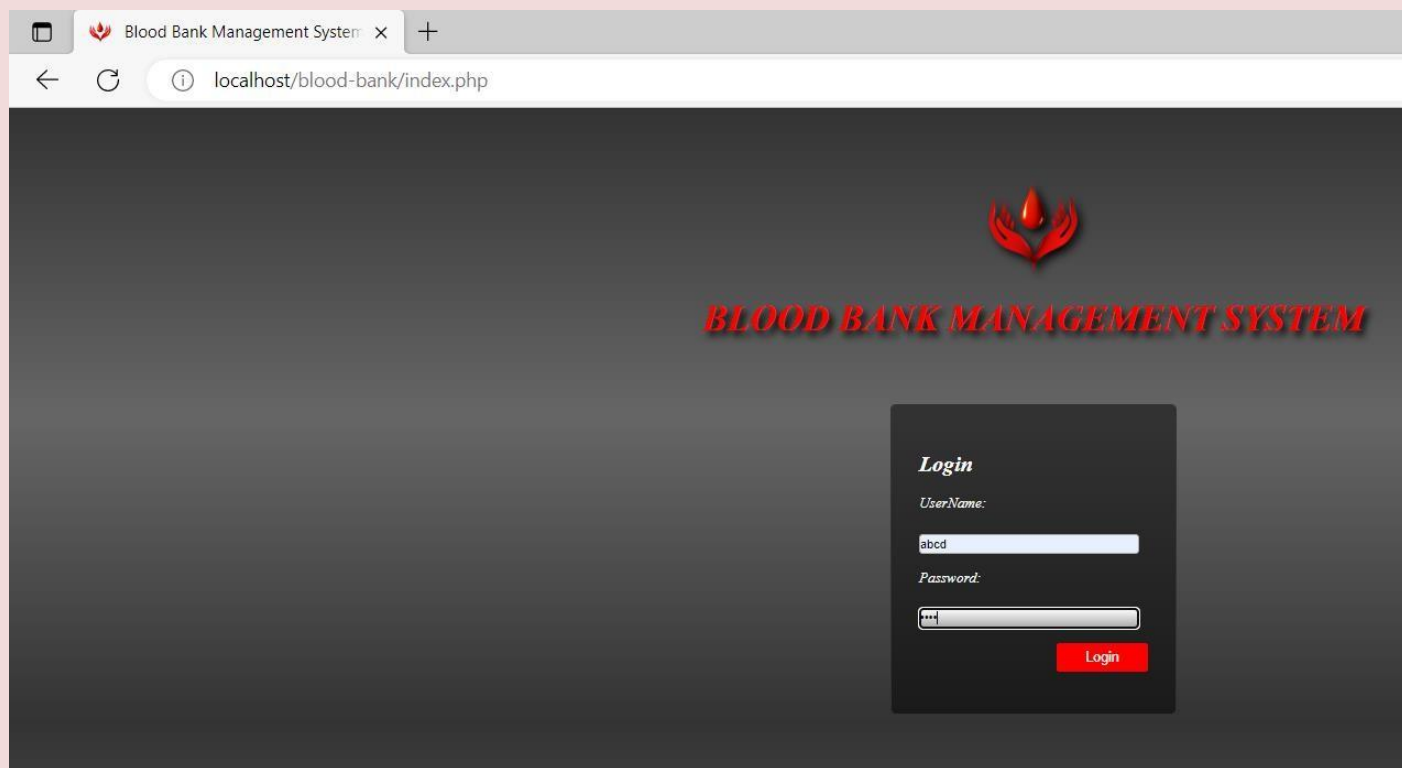
Initial list of Users



After Operation is completed  
Creating user abcd



Now user abcd will have login



Blood Bank Management System

localhost/blood-bank/index.php

**BLOOD BANK MANAGEMENT SYSTEM**

**Login**

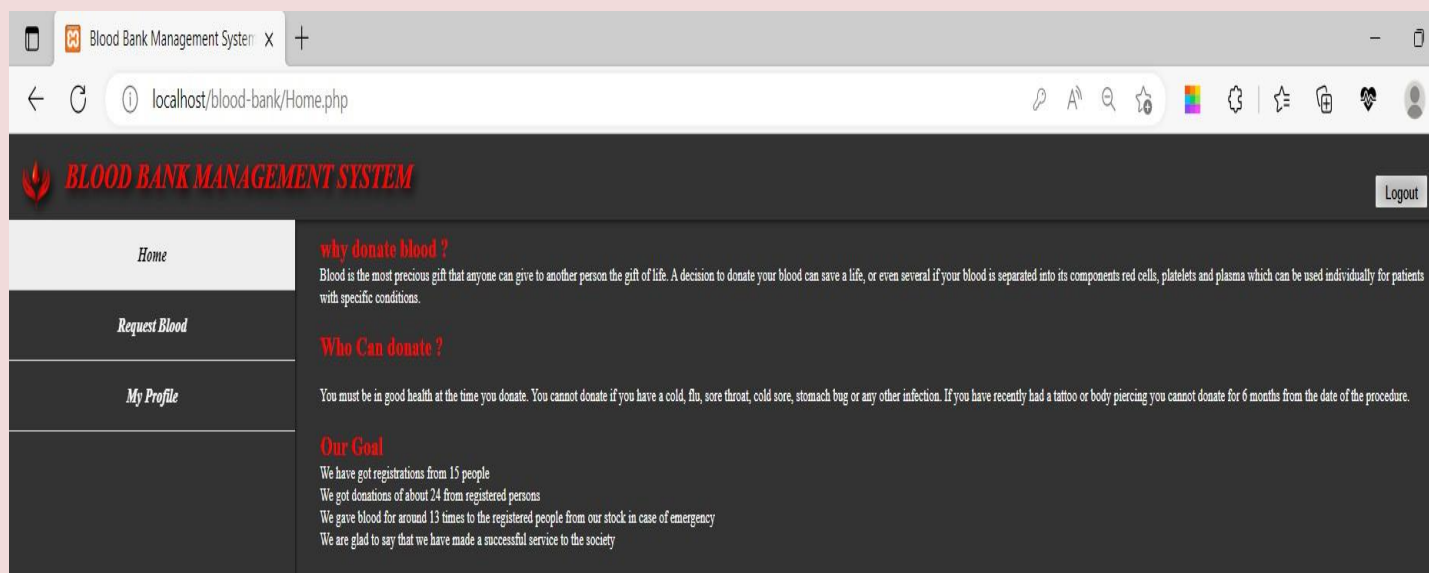
UserName:

abcd

Password:

\*\*\*

Login



Blood Bank Management System

localhost/blood-bank/Home.php

**BLOOD BANK MANAGEMENT SYSTEM**

Logout

**Home**

**Request Blood**

**My Profile**

**why donate blood ?**

Blood is the most precious gift that anyone can give to another person the gift of life. A decision to donate your blood can save a life, or even several if your blood is separated into its components red cells, platelets and plasma which can be used individually for patients with specific conditions.

**Who Can donate ?**

You must be in good health at the time you donate. You cannot donate if you have a cold, flu, sore throat, cold sore, stomach bug or any other infection. If you have recently had a tattoo or body piercing you cannot donate for 6 months from the date of the procedure.

**Our Goal**

We have got registrations from 15 people

We got donations of about 24 from registered persons

We gave blood for around 13 times to the registered people from our stock in case of emergency

We are glad to say that we have made a successful service to the society

## ✓ Delete User

Blood Bank Management System x +

localhost/blood-bank/Delete%20User.php

**BLOOD BANK MANAGEMENT SYSTEM**

*Home*

*Add Person*

*Search Person*

*Search Person Addhar*

*Update Person*

*New Donation*

*New Receive*

*Check Stock*

*Donation History*

*Receiving History*

*List Donors*

*Add User*

*Delete User*

**List of Users**

**Users**

abcd

test\_user

**Delete User**

Super Admin Password:

\*\*\*\*\*

Enter Username to Delete:

abcd

Submit

After Deletion of user abcd

Blood Bank Management System x +

localhost/blood-bank/deleteUser.php

**BLOOD BANK MANAGEMENT SYSTEM**

*Home*

*Add Person*

*Search Person*

*Search Person Addhar*

*Update Person*

*New Donation*

*New Receive*

*Check Stock*

*Donation History*

*Receiving History*

*List Donors*

*Add User*

*Delete User*

Successfully Authenticated Super Admin !

Successfully Authenticated username !

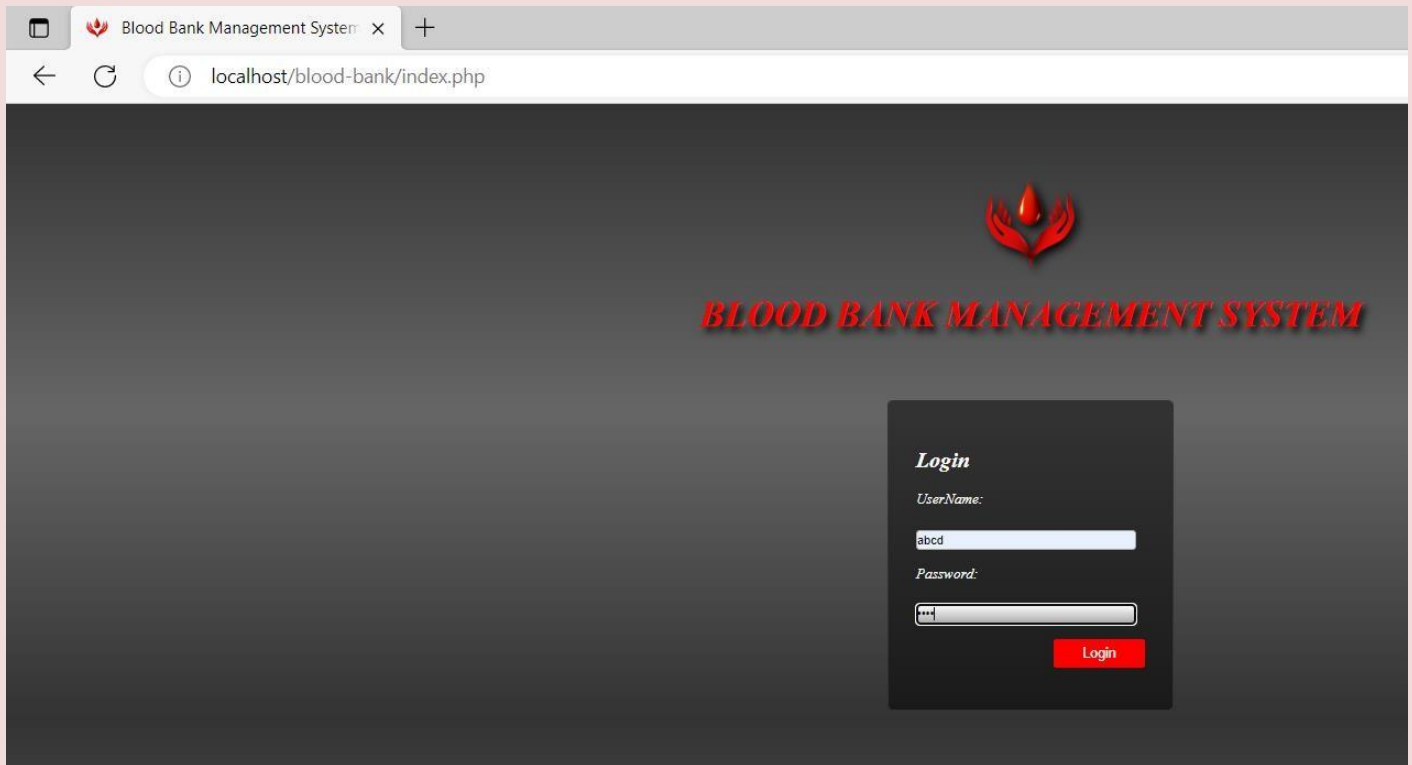
User Deleted Successfully

**List of Users**

**Users**


test\_user

Now the User abcd cannot login



Blood Bank Management System

localhost/blood-bank/index.php



**BLOOD BANK MANAGEMENT SYSTEM**

**Login**

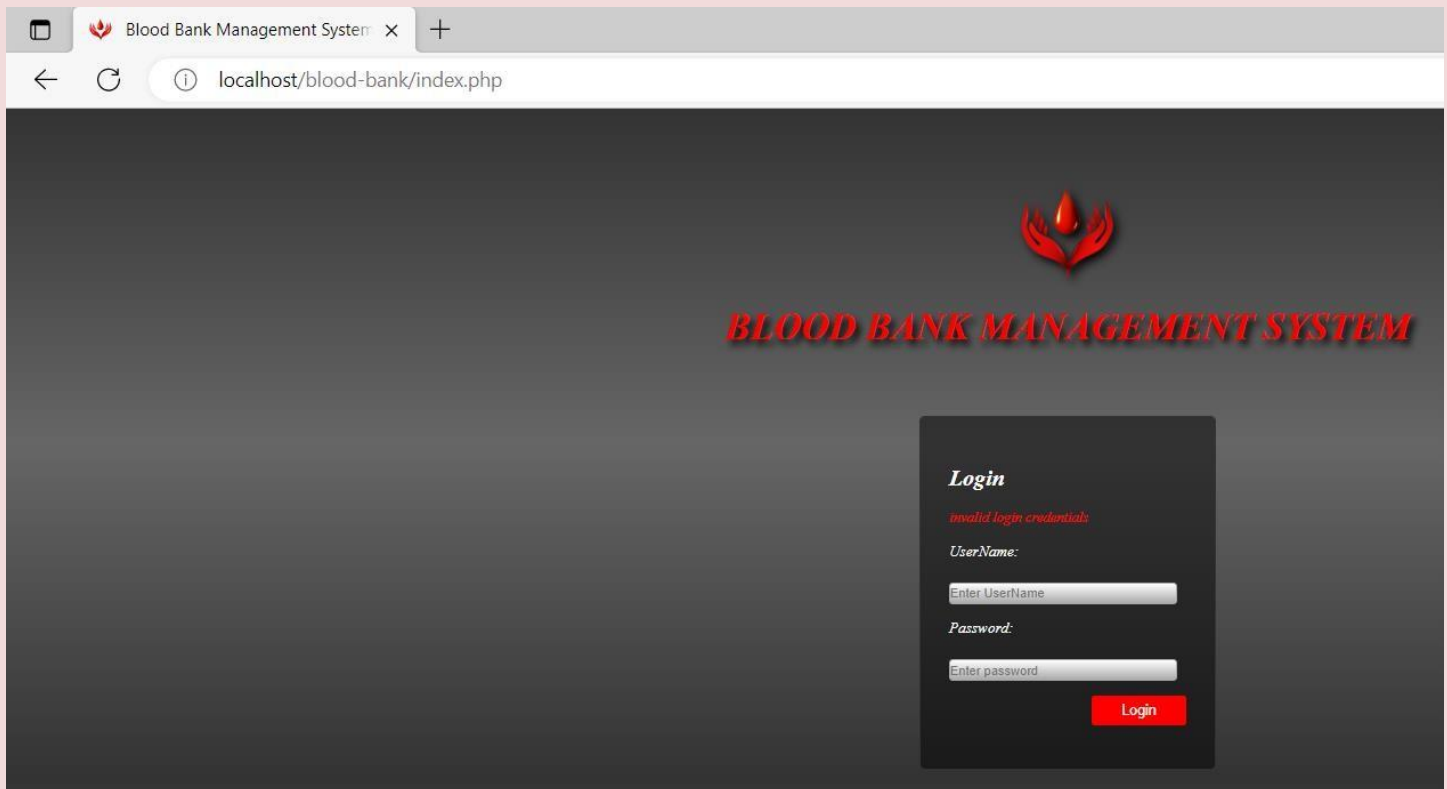
UserName:

abcd

Password:


\*\*\*

Login



Blood Bank Management System

localhost/blood-bank/index.php



**BLOOD BANK MANAGEMENT SYSTEM**

**Login**

invalid login credentials

UserName:

Enter UserName

Password:

Enter password

Login

\*\*\*\*\*