DBMS - Mini Project

Blood Bank Management

Submitted By
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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.

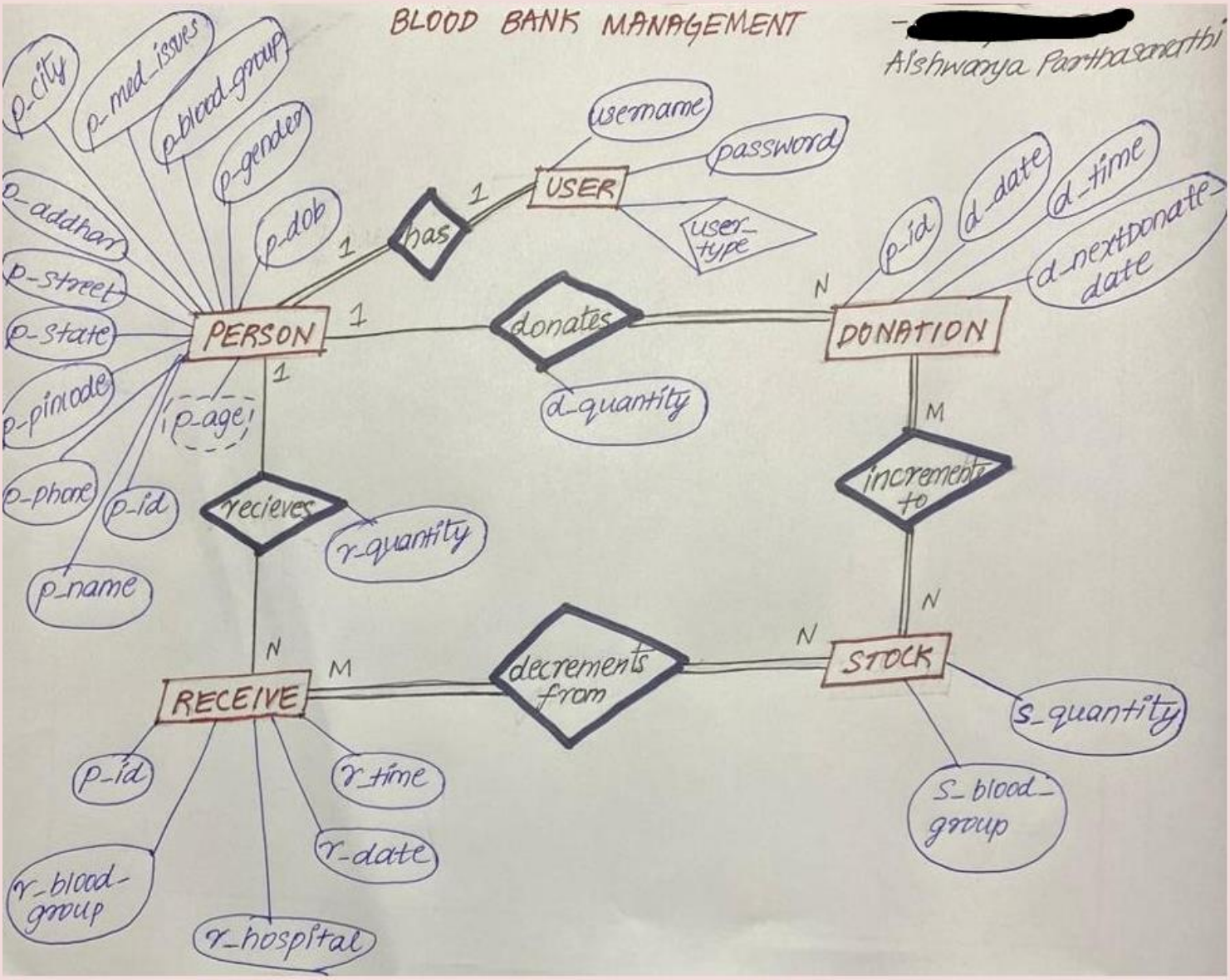
USER i.e.DONOR/RECEIVER

- Login
  This function requires the user to login to use his/her features.

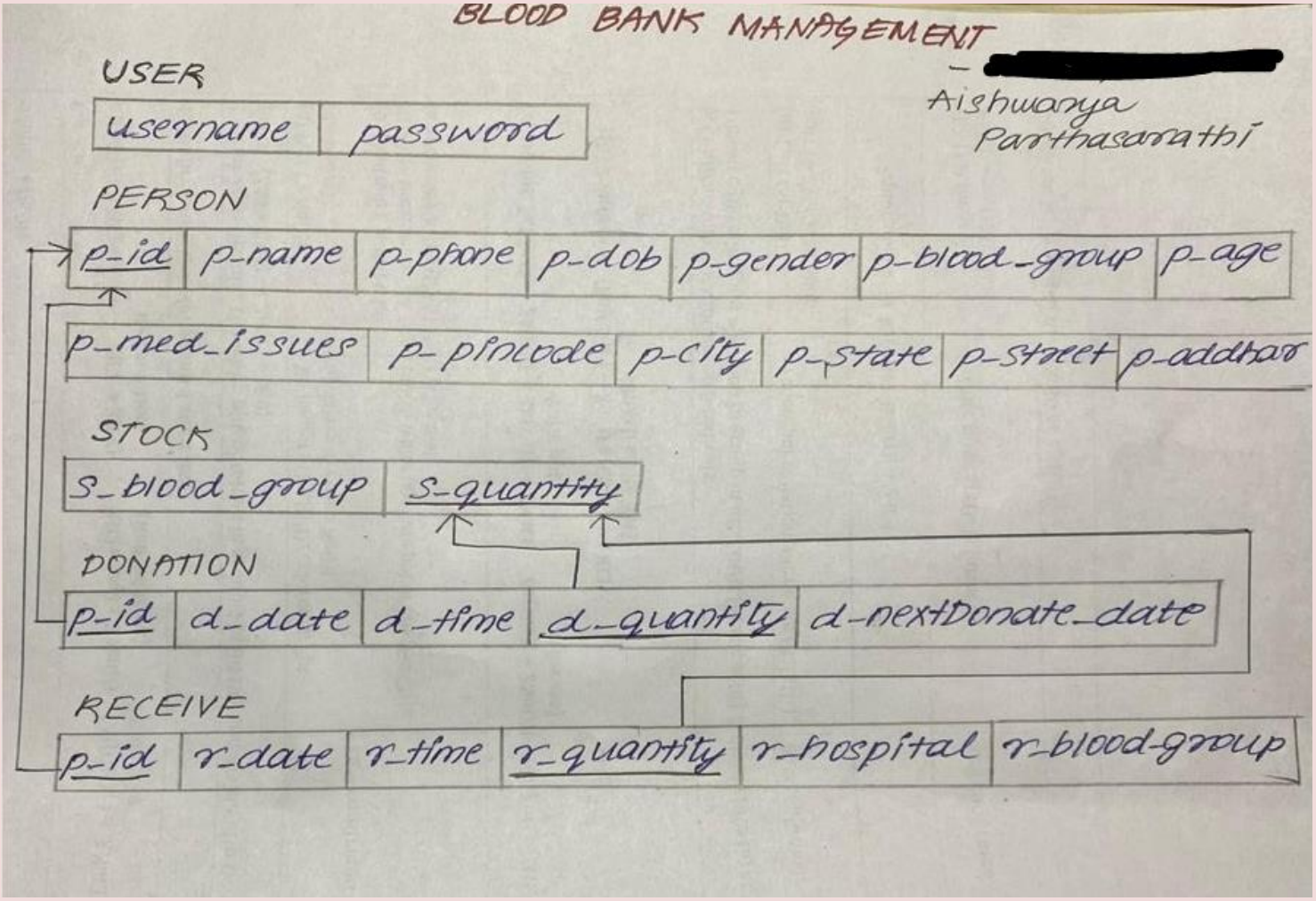
- Request Blood
  This function allows the User to request blood for any blood group required. Admitted hospital and units of blood needed must be specified.

- My profile
  The User can view his details including his/her donations and receiving details

ER Diagram


BLOOD BANK MANAGEMENT
[redacted]
Aishwarya Parthasarathi
p_city
p_med_issues
p_blood_group
p_gender
p_dob
p_addhar
p_street
p_state
p_pincode
p_age
p_phone
p_id
p_name
username
password
USER
user_type
has
1
1
PERSON
1
donates
N
DONATION
d_id
d_date
d_time
d_nextdonate_date
d_quantity
M
increments to
N
recieves
r_quantity
N
M
RECEIVE
decrements from
N
STOCK
S_quantity
S_blood_group
p_id
r_time
r_date
r_blood_group
r_hospital

Relational Schema



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');
```

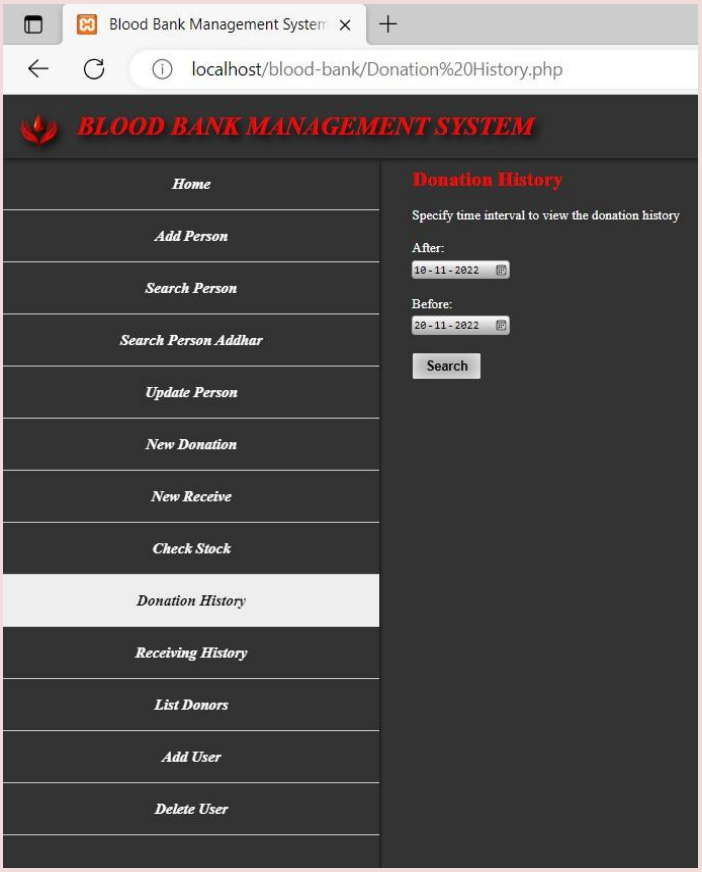
“DUMPING THE OTHER TABLES IS DONE THROUGH FRONT END “

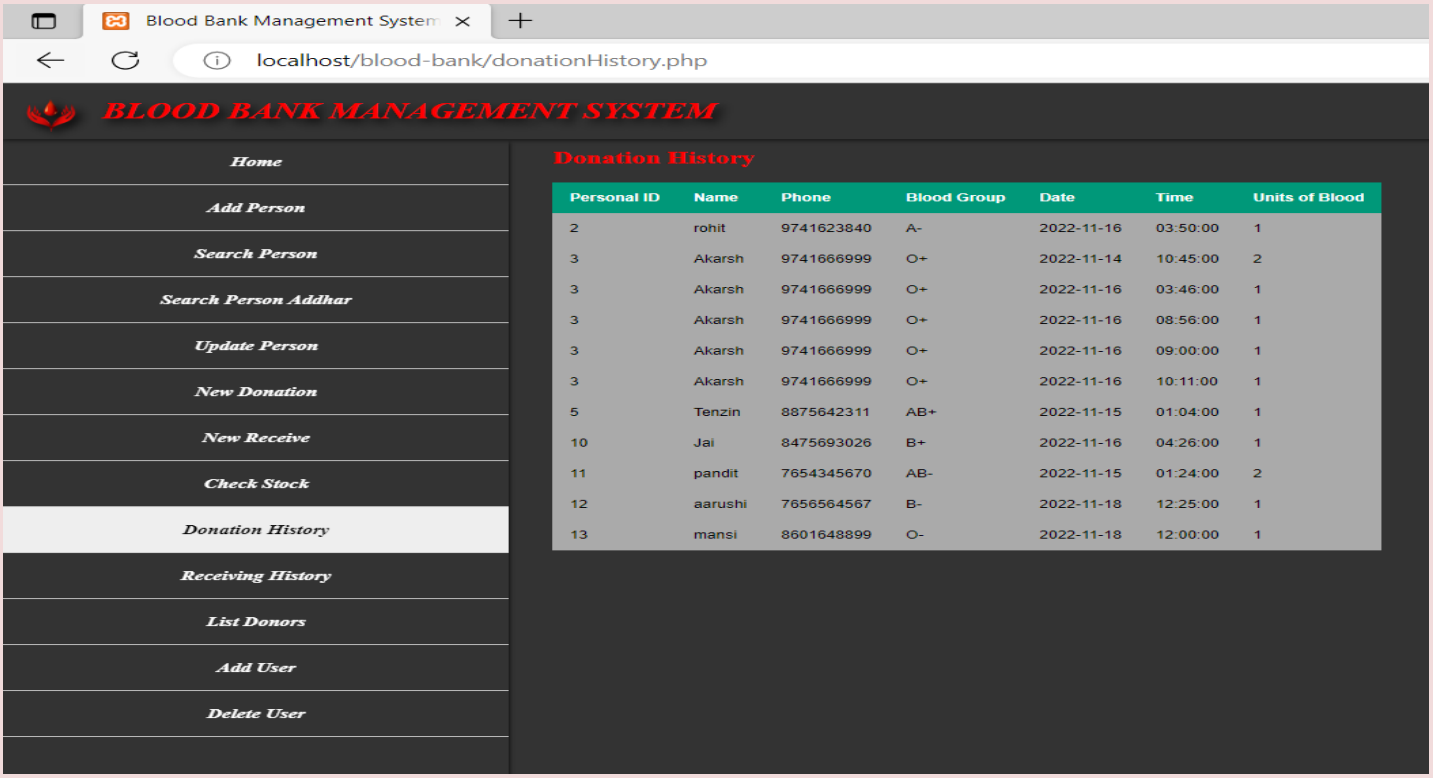
Join Queries

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

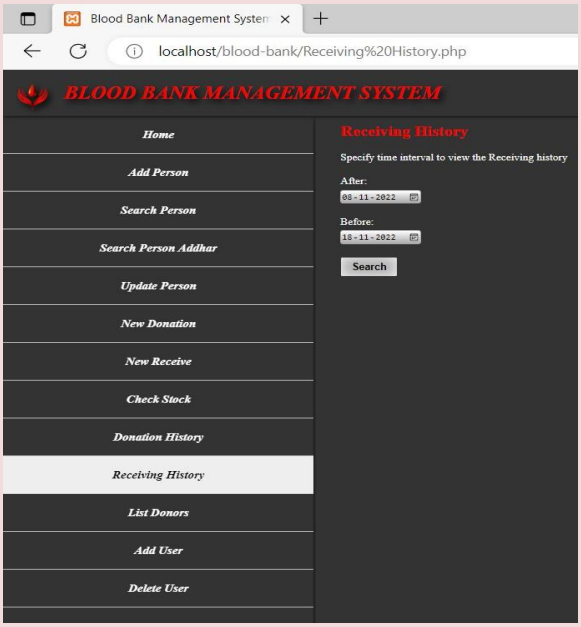
```
MariaDB [blood_bank]> select d.d_date, d.d_time, d.d_quantity, p.p_id, p.p_name, p_phone, p.p_blood_group from Person p,Donation d where p.p_id = d.p_id and d.d_date >= '2022-11-10' and d.d_date <= '2022-11-20';

+------------+----------+------------+------+---------+------------+--------------+
| 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]>
```

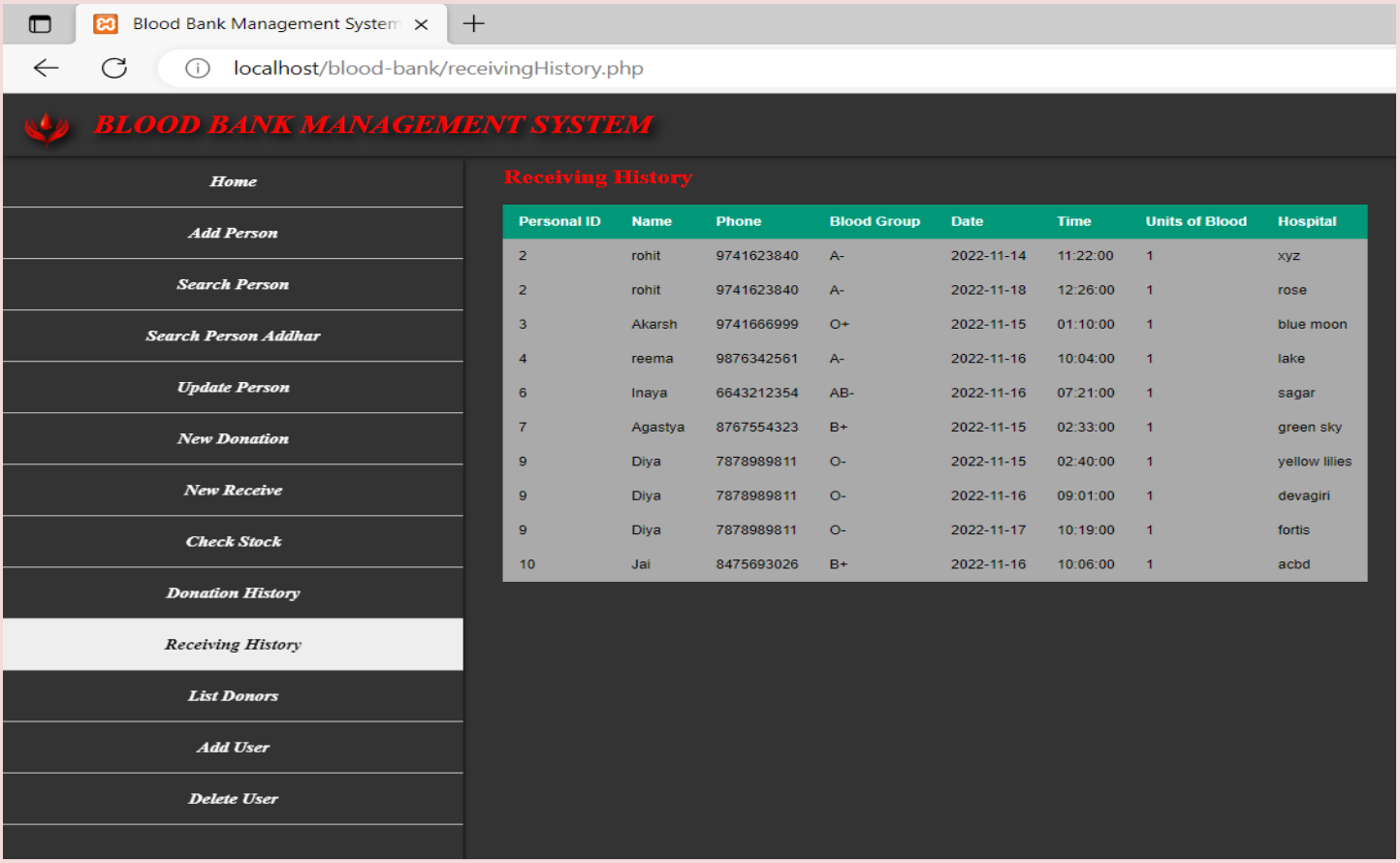




2. To view receiving history given a particular time line

```
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]>
```





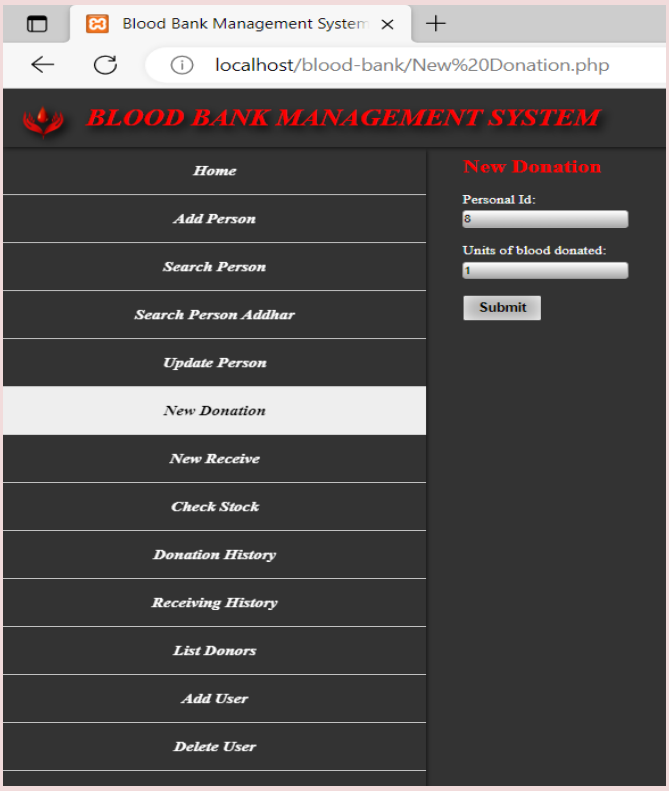
3. To ensure that only users with 6 months gap from their previous donation and no medical issues can donate

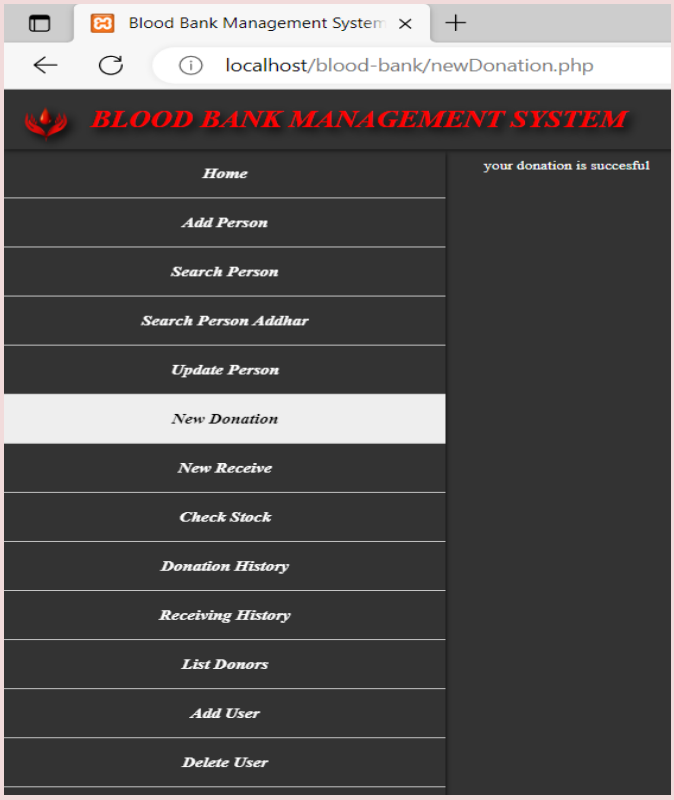
```
MariaDB [blood_bank]> select * from donation;
+------+------------+----------+------------+-------------------+
| p_id | d_date     | d_time   | d_quantity | d_nextDonate_date |
+------+------------+----------+------------+-------------------+
|    1 | 2022-10-27 | 08:48:00 |          2 | 2023-04-27        |
|    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.

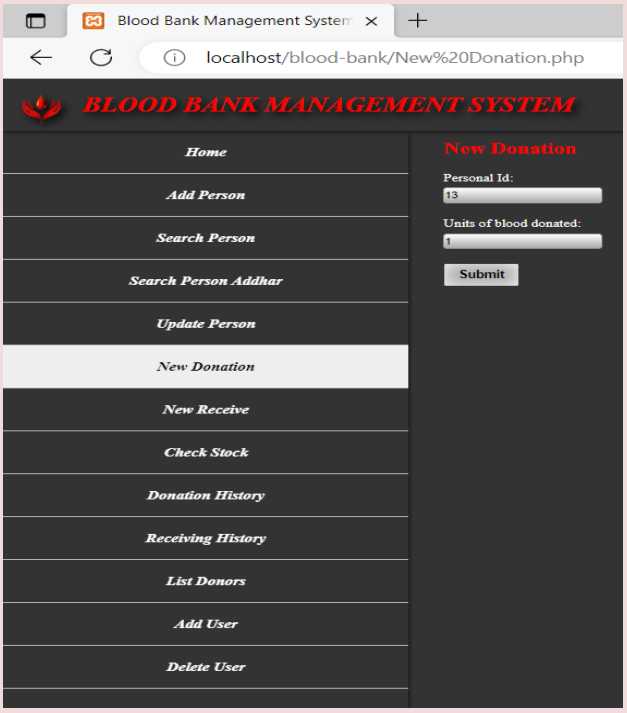
```
MariaDB [blood_bank]> SELECT donation.p_id , max(d_nextDonate_date) as Next_Donation FROM DONATION , PERSON WHERE donation.p_id = '8' AND person.p_med_issues not like 'no%' GROUP BY donation.p_id HAVING max(d_ne
xtDonate_date) <= curdate();
+------+---------------+
| p_id | Next_Donation |
+------+---------------+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

MariaDB [blood_bank]>
```

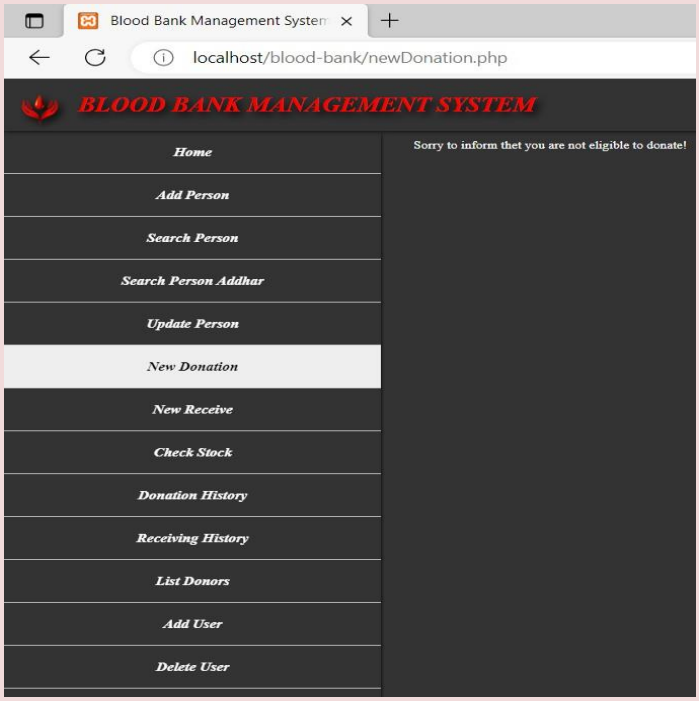




User 13 cannot donate as his minimum time interval between donations is not satisfied.

```
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_n
extDonate_date) <= curdate();
Empty set (0.001 sec)

MariaDB [blood_bank]>
```





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]>
```

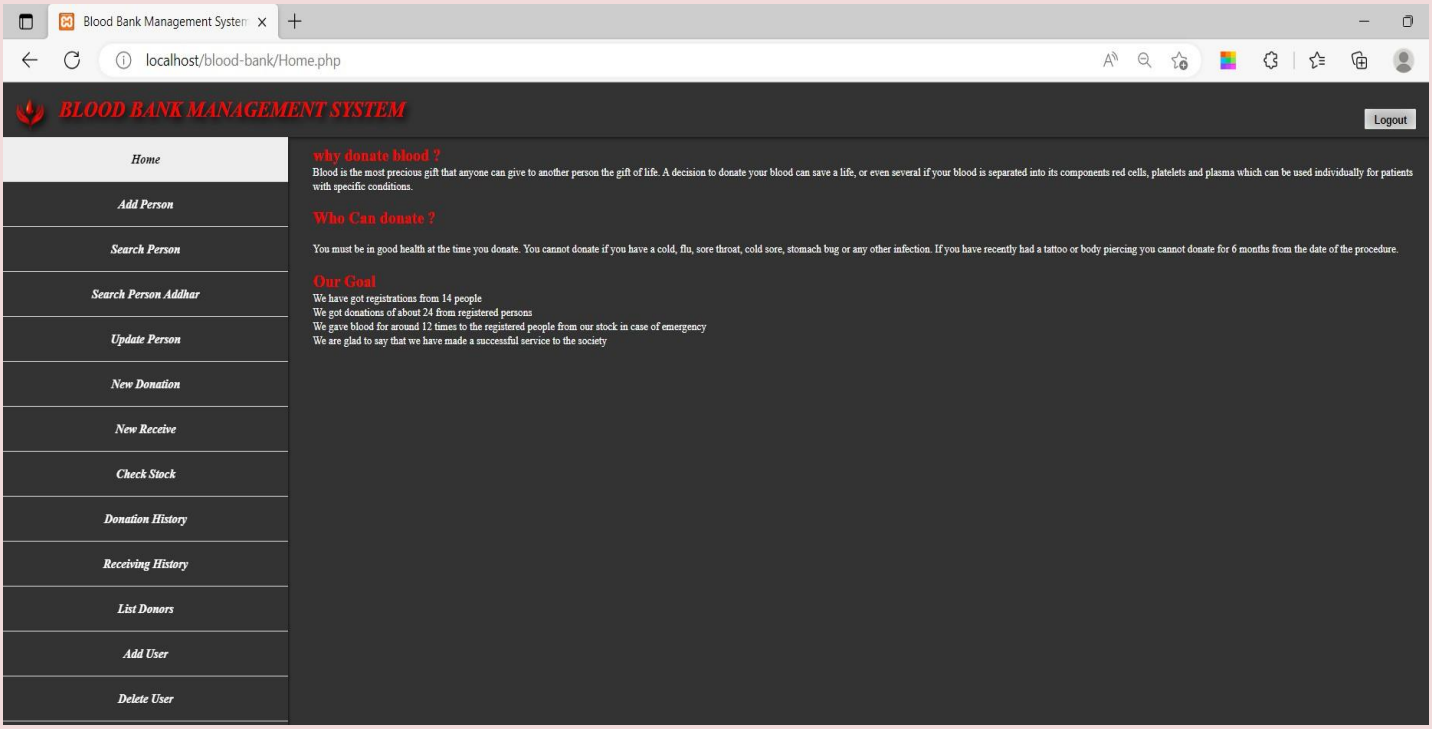
2. To know the number of donations the blood bank has got.

```
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.



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]>
```

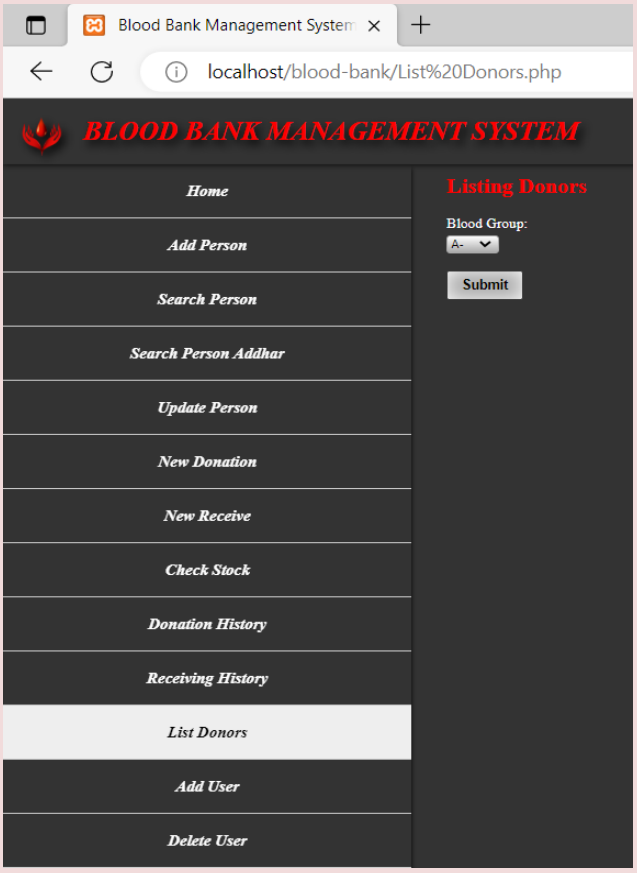
Procedures

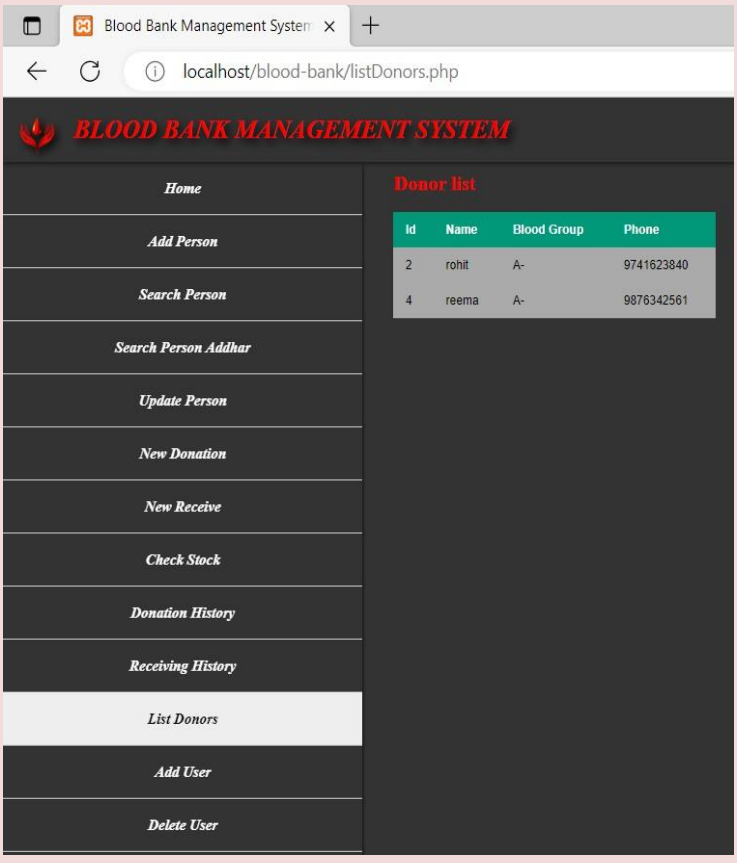
Create a Procedure. State the objective of the Procedure. Run and display the results.

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 ;
```





Triggers

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

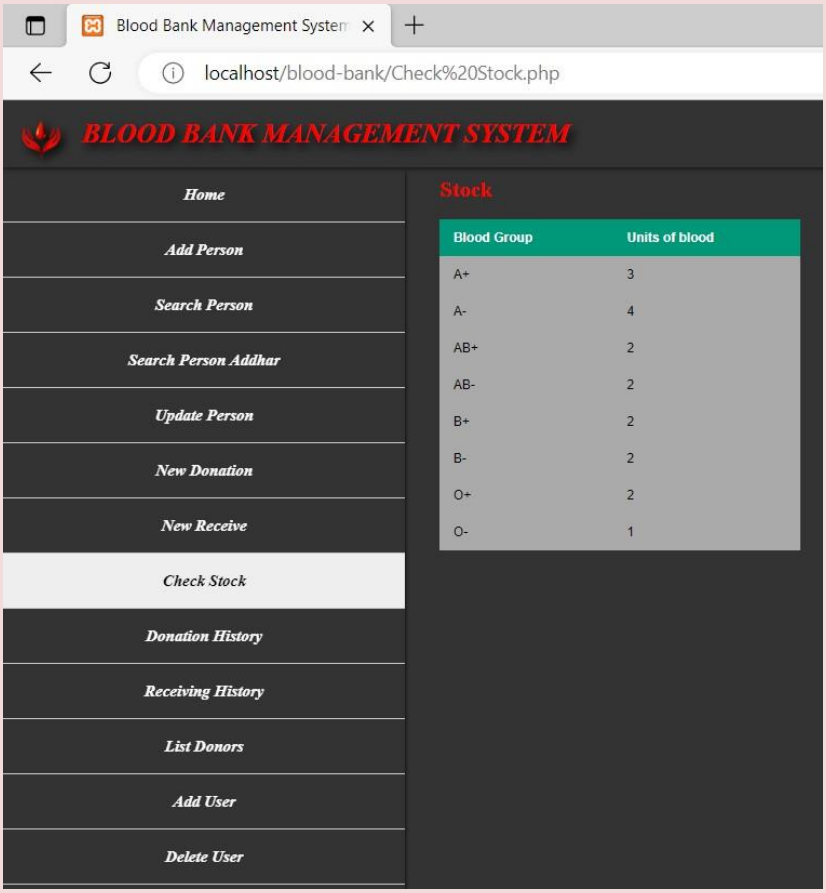
Objective:

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

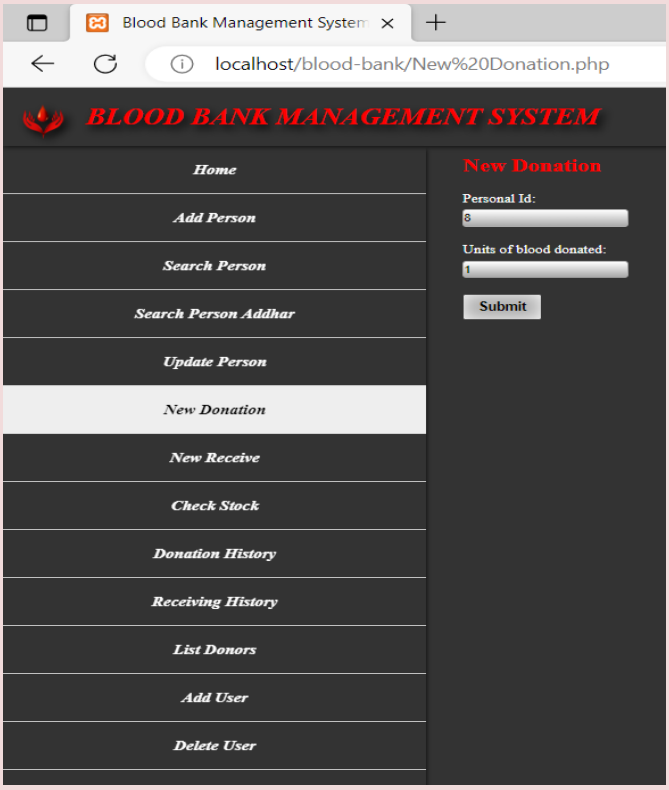
triggerD

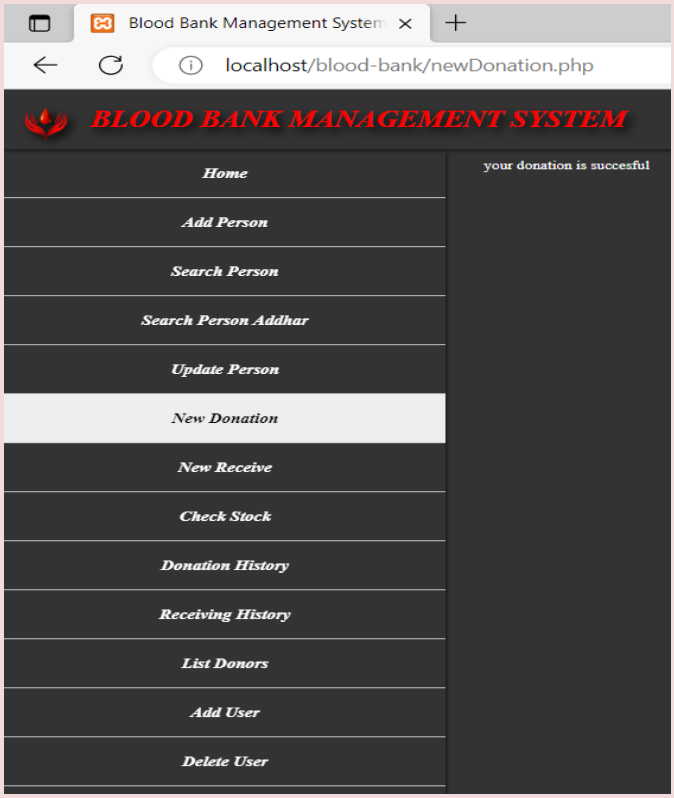
```
1   DELIMITER $$
2   CREATE TRIGGER aft_d
3   AFTER INSERT
4   ON Donation FOR EACH ROW
5   BEGIN
6
7   SELECT p_id, new.d_quantity ,max(d_date) d_date INTO @p_id ,@d_quantity ,@d_date
8   FROM DONATION
9   WHERE p_id = new.p_id
10  GROUP BY p_id;
11
12  UPDATE Stock SET s_quantity = s_quantity +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

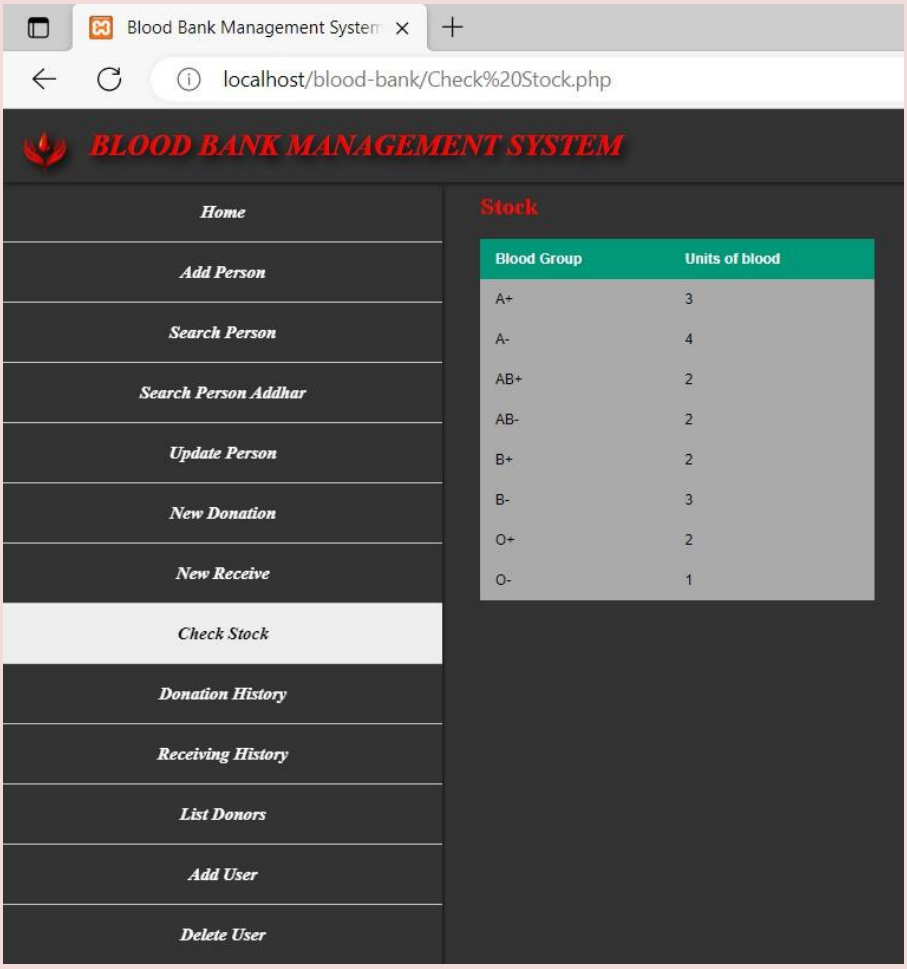
Initial stock



After donation





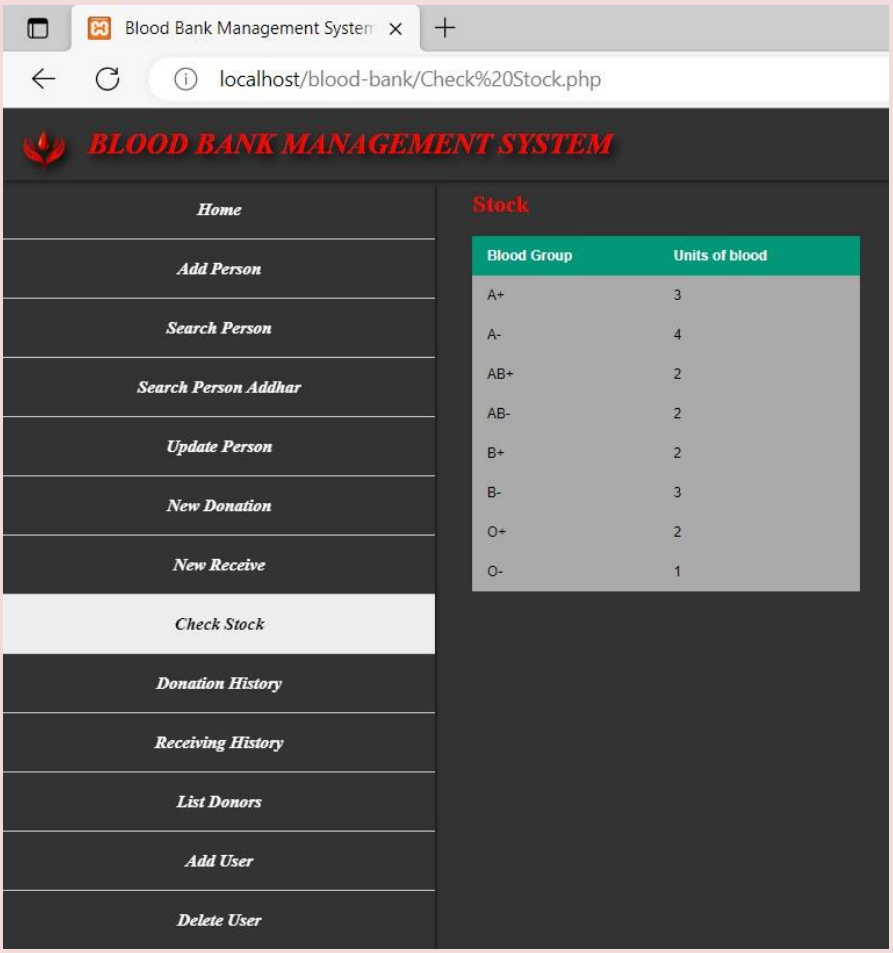


Objective:

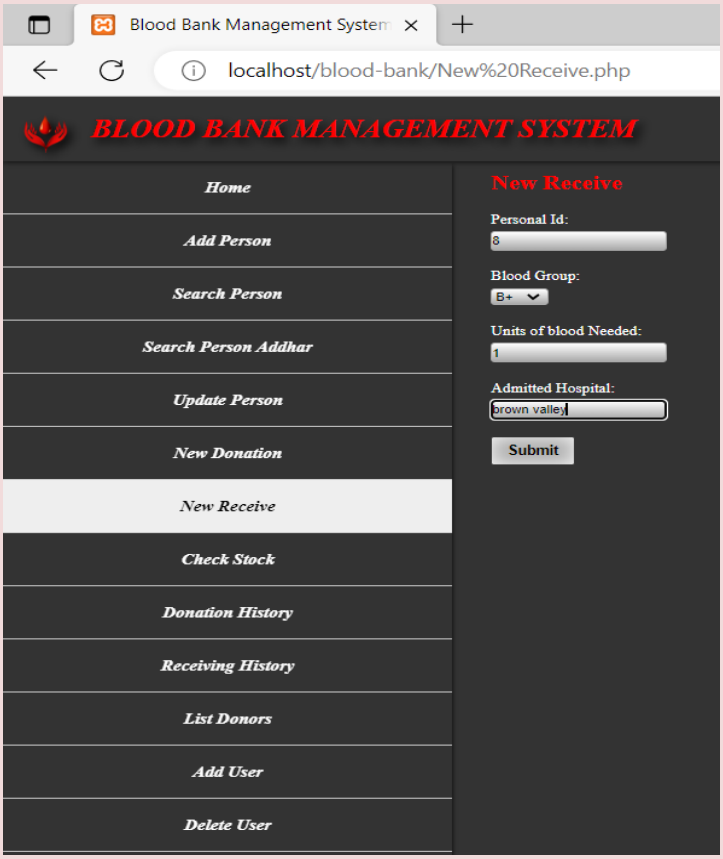
2. To update stock after a new receive/request for blood is successfully completed.

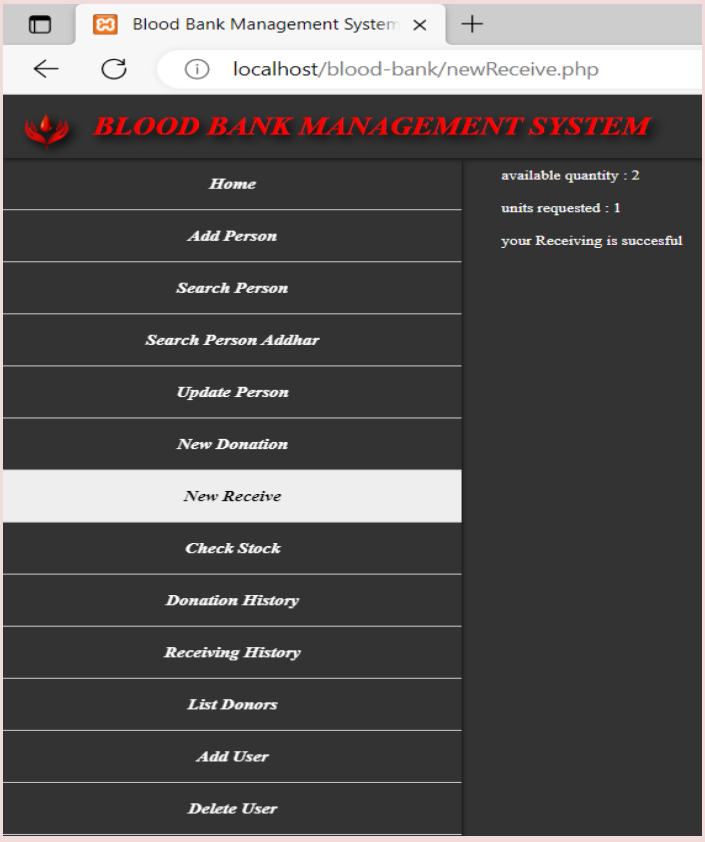
```
triggerR
Limit to 1000 rows
1   DELIMITER $$
2   CREATE TRIGGER aft_r
3   AFTER INSERT
4   ON RECEIVE FOR EACH ROW
5   BEGIN
6
7
8   SELECT r_blood_group, r_quantity ,max(r_date) r_date INTO @r_blood_group ,@r_quantity ,@r_date
9   FROM RECEIVE
10  WHERE r_blood_group = new.r_blood_group
11  GROUP BY r_blood_group;
12
13
14  update  Stock SET s_quantity = s_quantity - @r_quantity where s_blood_group = new.r_blood_group;
15  END $$
16  DELIMITER ;
```

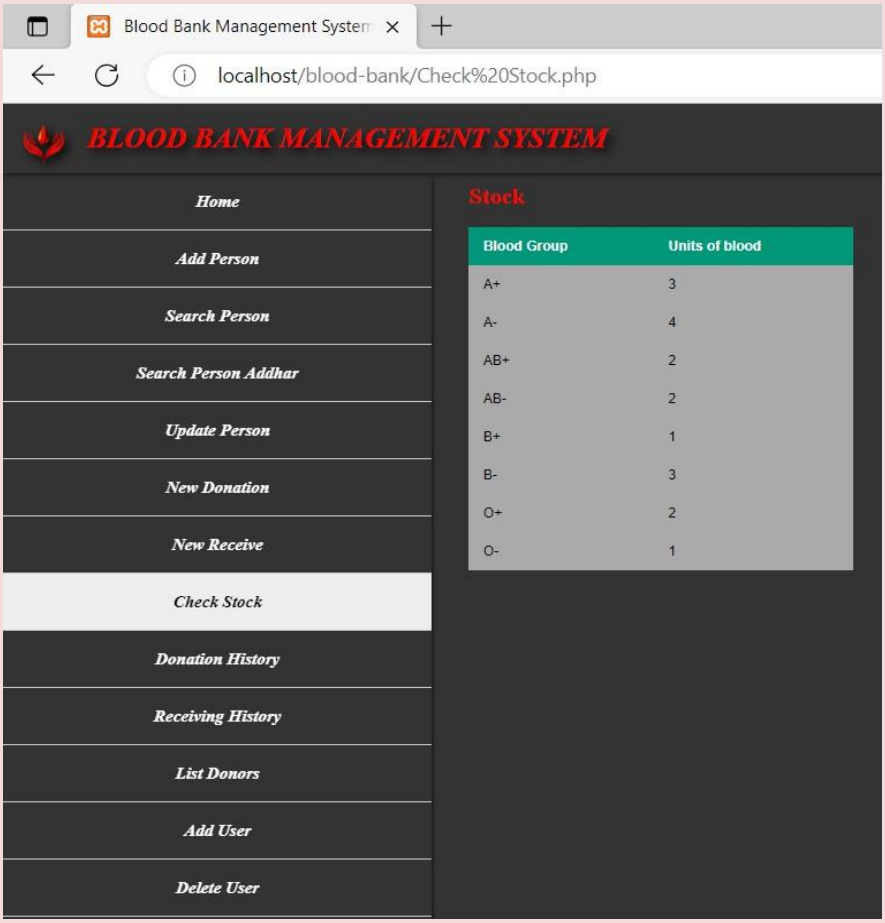
Initial stock



After new receive







Developing a Frontend

The frontend should support

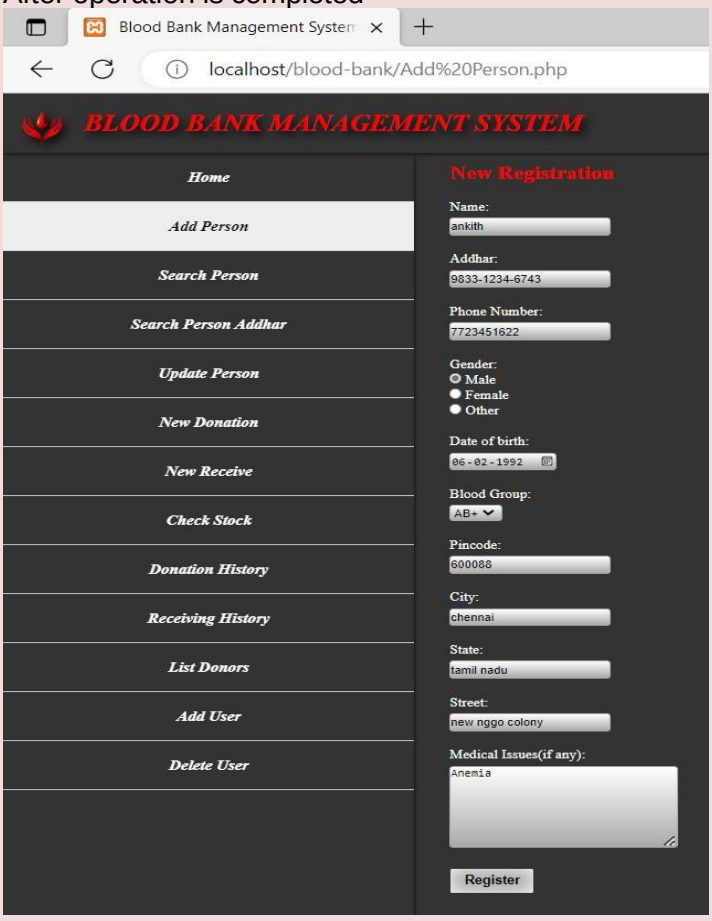
1. Addition, Modification and Deletion of records from any chosen table
2. There should be a window to accept and run any SQL statement and display the result

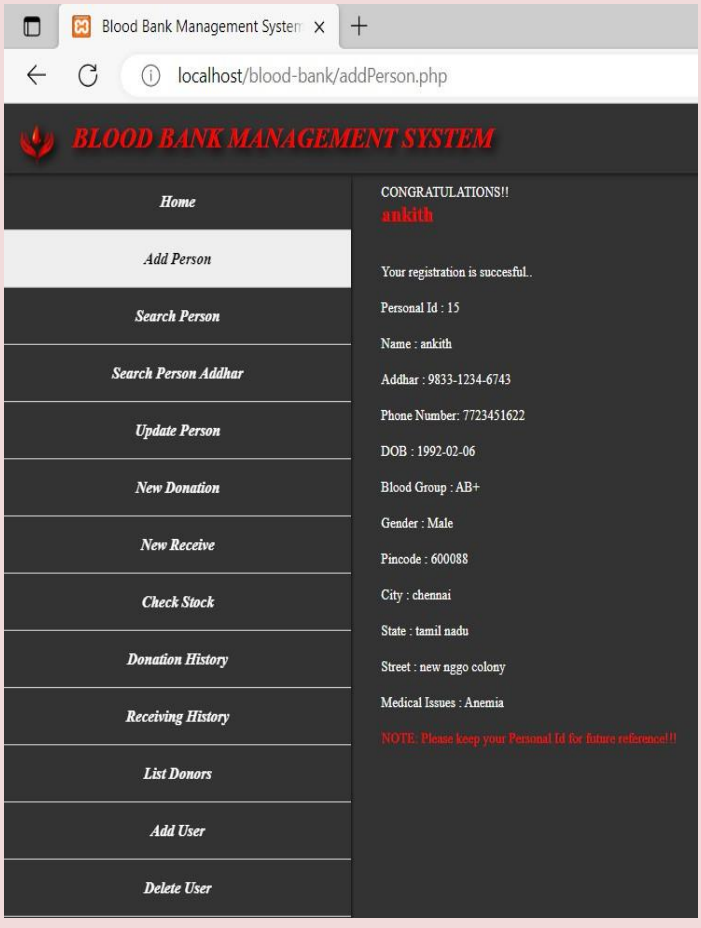
- ✓ Adding new Person

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      | 2231-0989-6666 |
|    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 |
+------+---------+------------+------------+----------+---------------+--------------------+------+-----------+-----------------+---------------+-----------------------------+---------------+
14 rows in set (0.001 sec)

MariaDB [blood_bank]>
```

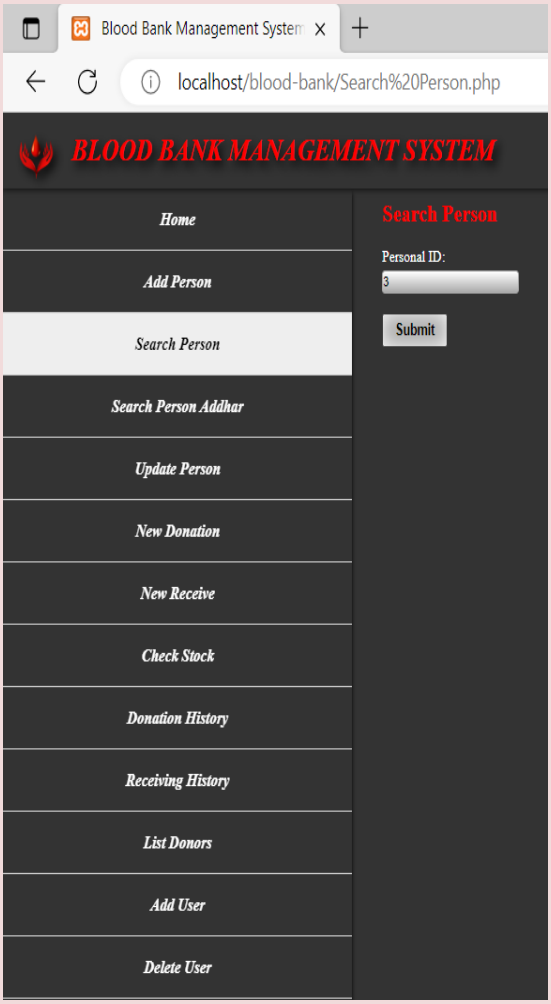
After operation is completed

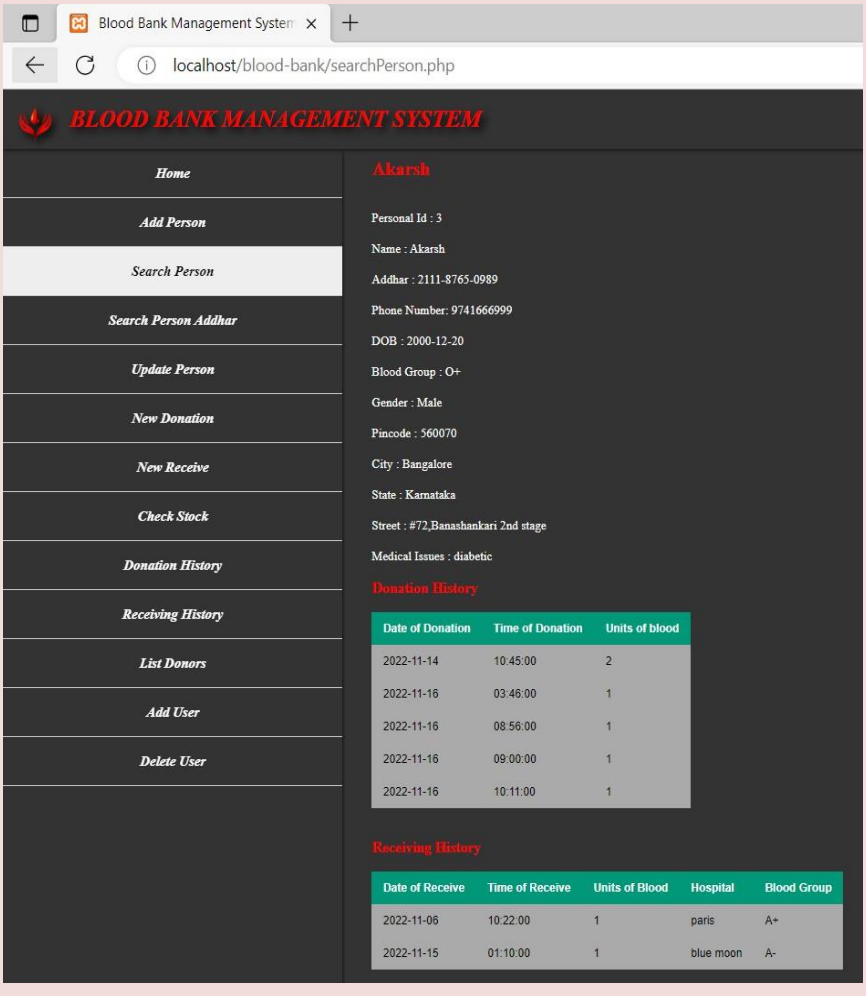




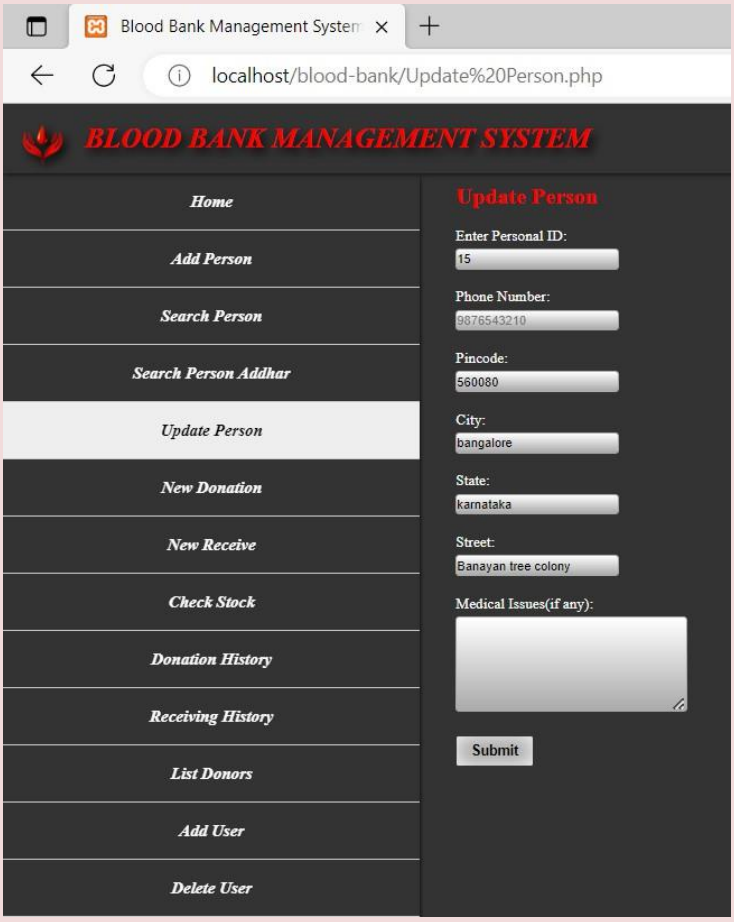
```
MariaDB [blood_bank]> select * from person;
+------+---------+------------+------------+---------+---------------+--------------------+------+-----------+-----------------+-------------+-----------------------------+---------------+
| p_id | p_name  | p_phone    | p_dob      | p_gender | p_blood_group | 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]>
```

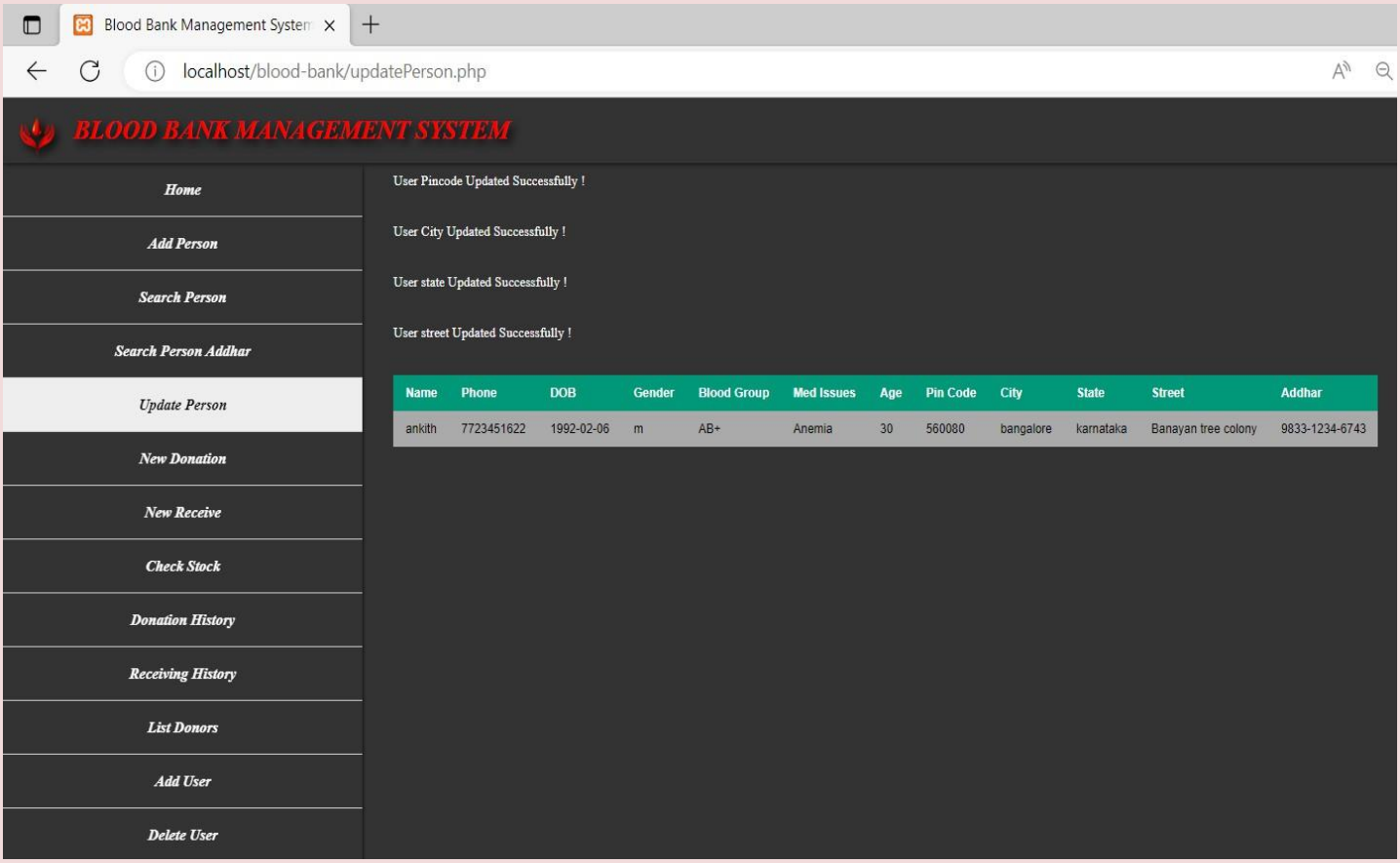
- ✓ Search Person





✓ Update Person

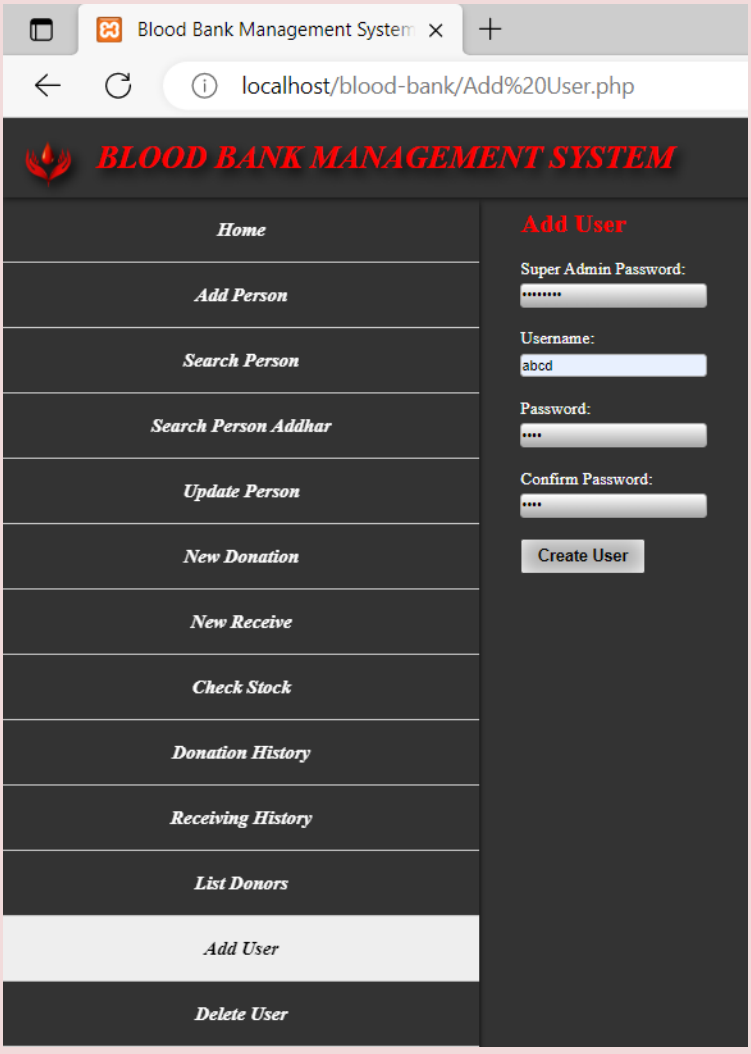


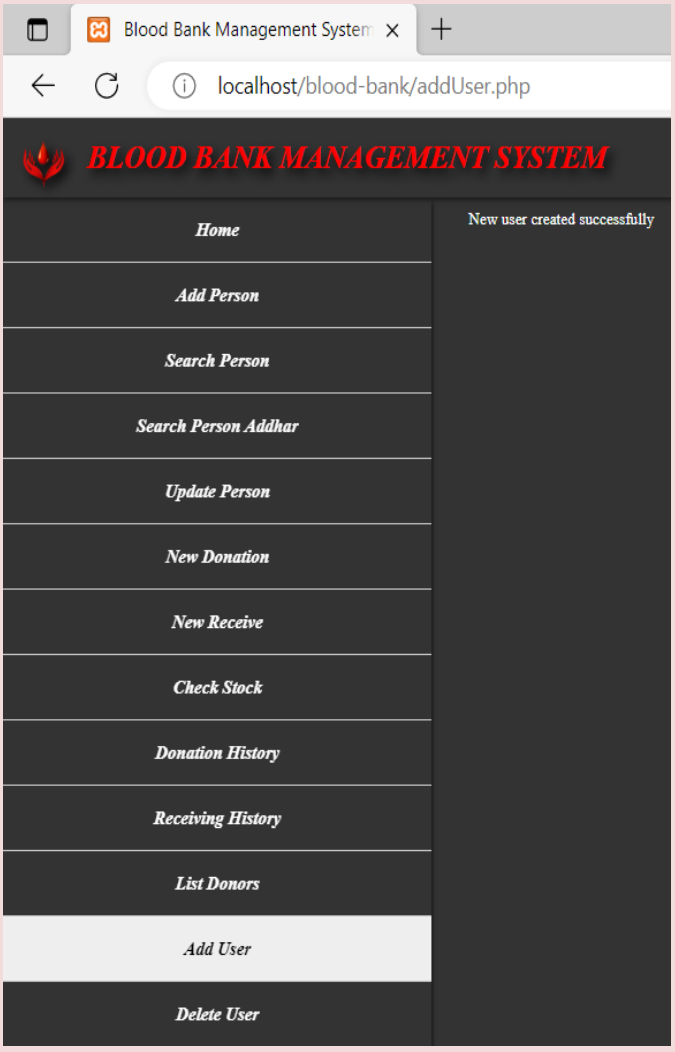


- ✓ Add user

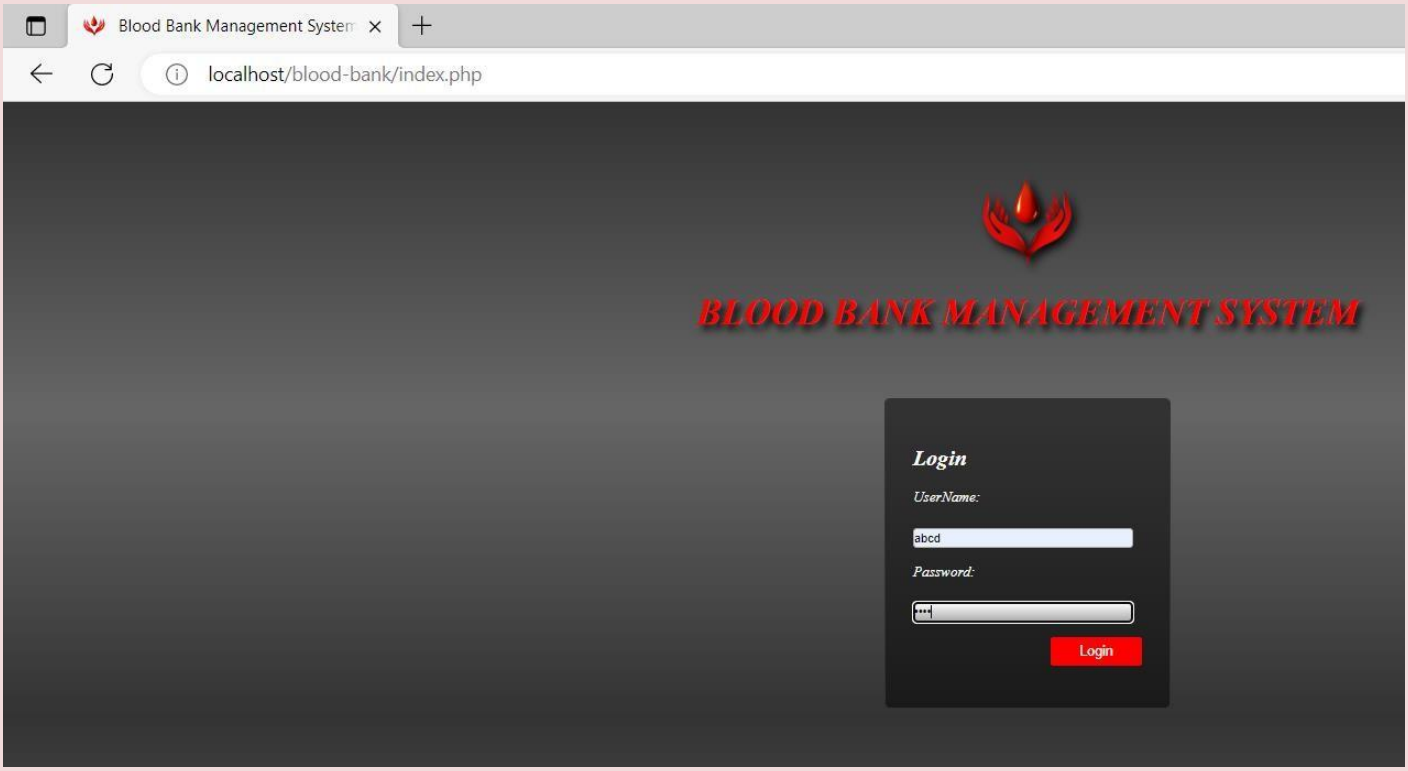
Initial list of Users

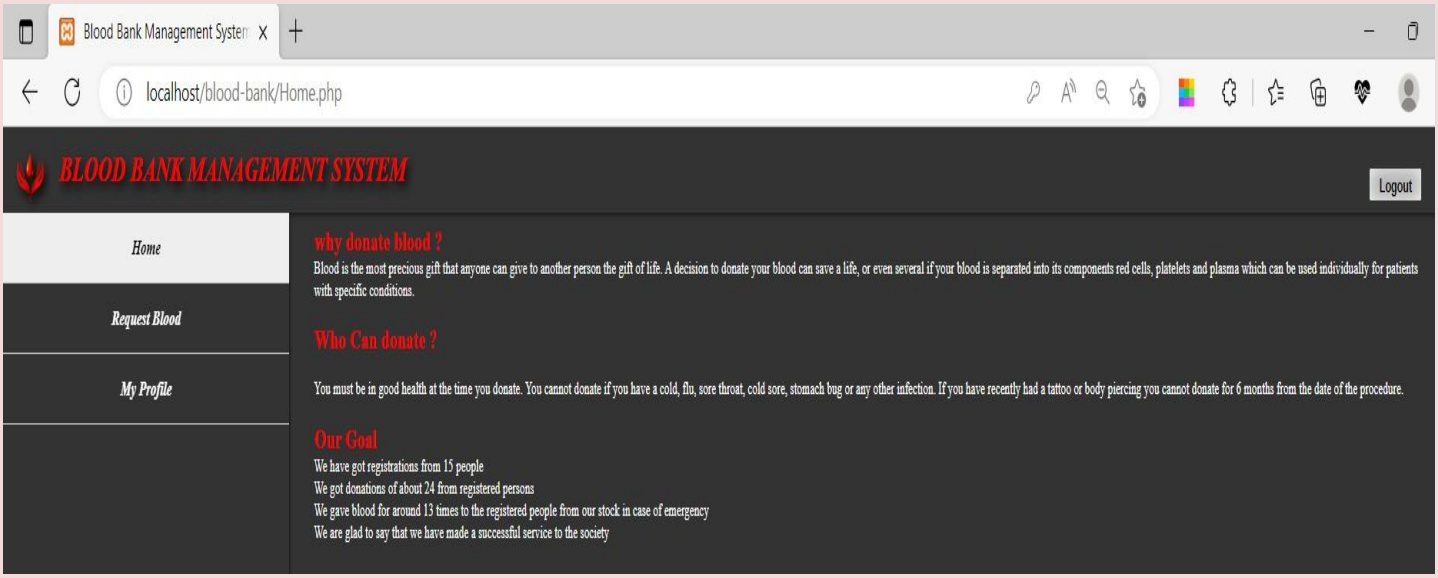
After Operation is completed
Creating user abcd



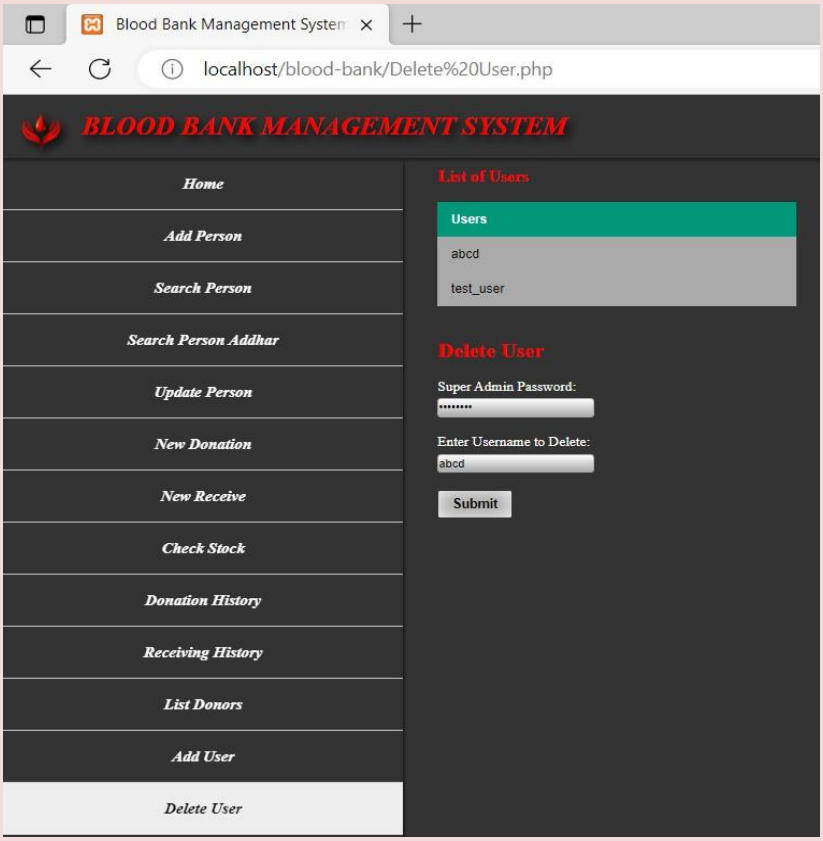


Now user abcd will have login

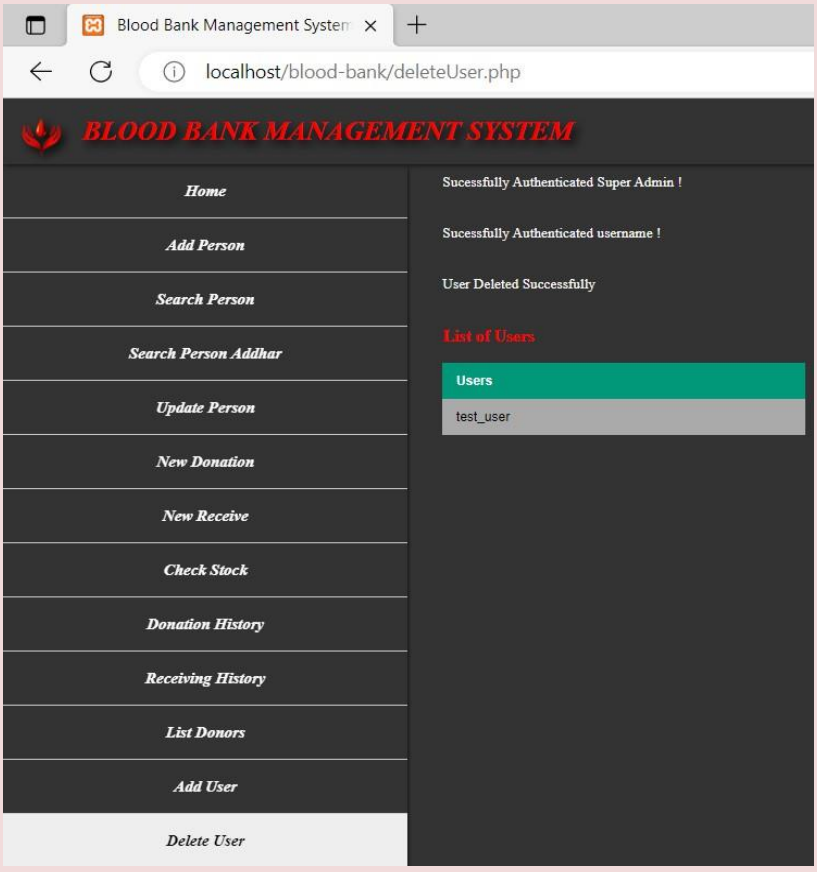




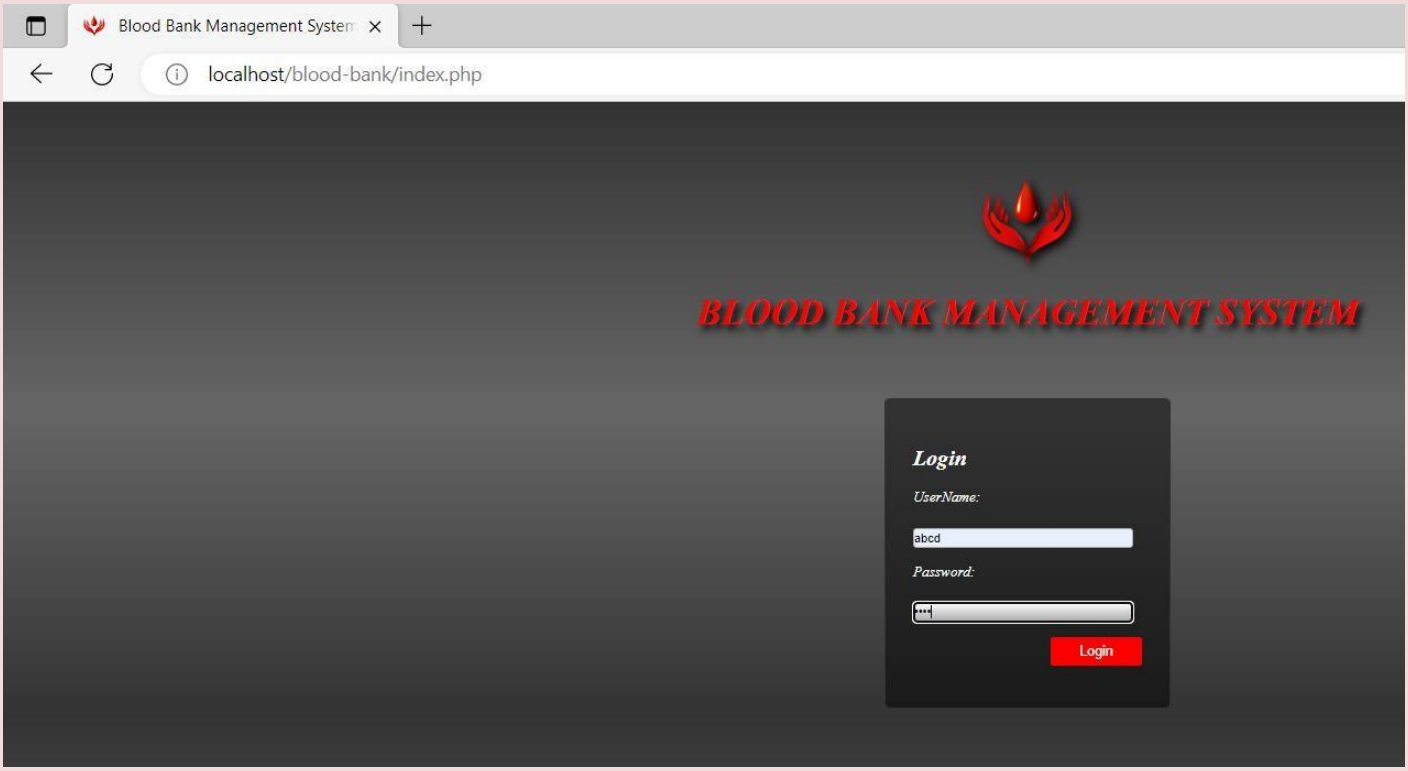
✓ Delete User

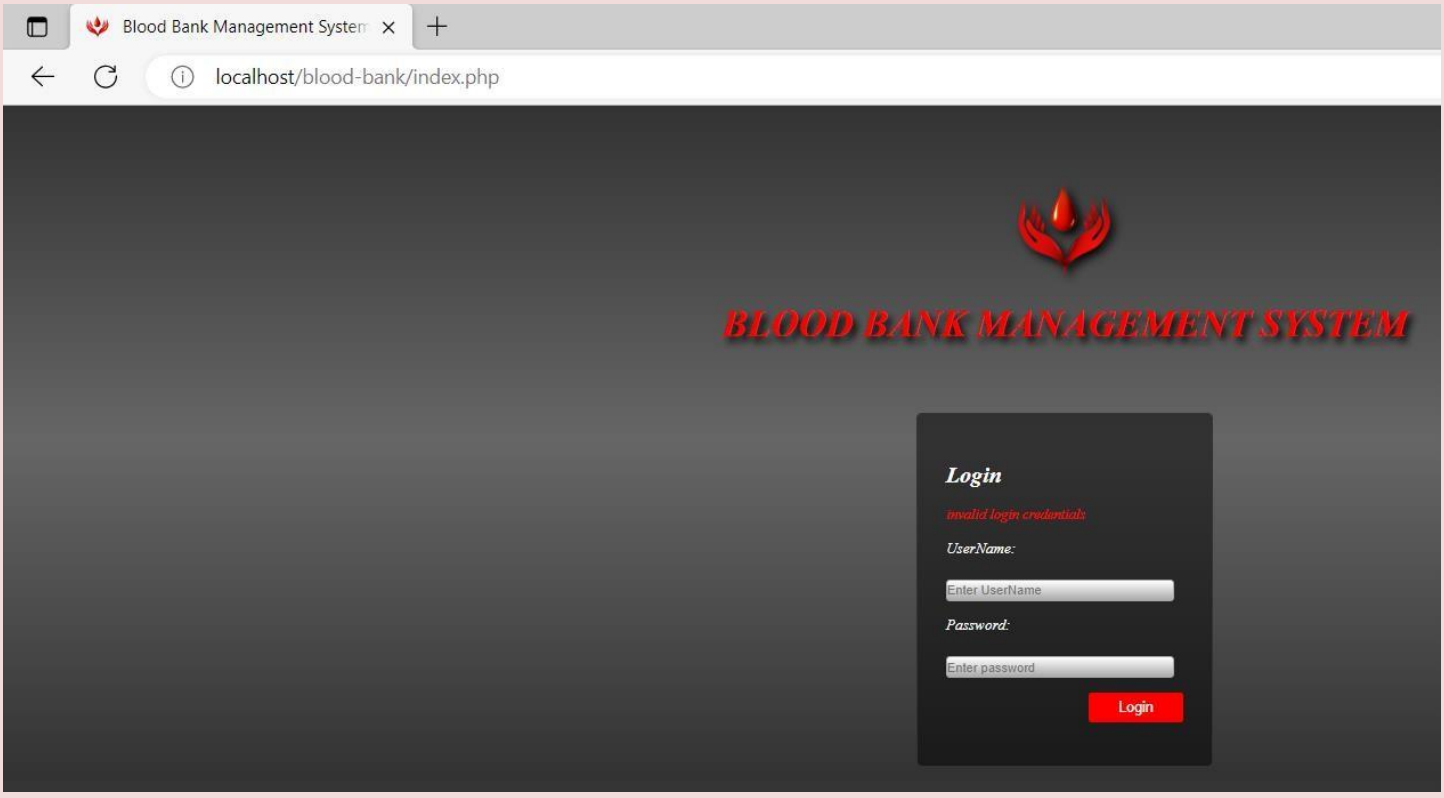


After Deletion of user abcd



Now the User abcd cannot login





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