

BLOOD BANK MANAGEMENT SYSTEM

PROJECT REPORT

Submitted in fulfilment of the J-Component of ITE-1008-Open Source Programming

CAL COURSE

IN

B.Tech.(Information technology)

by

K.SAI MANAS REDDY(19BIT0027)

CHIMMILI.AJAY (19BIT0142)

M.SHYAM KUMAR (19BIT0148)

Under the guidance of

Prof. Jayakumar Sadhasivam

SITE



School of Information Technology and Engineering

Winter semester 2020-2021

S.NO	TITLE	PAGE NO
1	Abstract	3
2	Introduction	4
3	Problem statement	5
4	Reason to Choose topic?	5
5	Process flow diagram	6
6	Modules	7
7	Prototype Design	8-11
8	Database Design	12-13
9	CONCLUSION	13-14
10	REFERENCES	14
11	SNAP SHOTS	15-20
12	SOURCE CODE	21-22

ABSTRACT:

Main aim of this project is to develop an application system to minimize the manual work and manage the Blood Bank, Plasma search, Donor, Blood Group management, blood stock data. If any particular person want the blood in emergency situations it may or may not be available in the respective hospital. Hospital have so many documents of the blood donors but it will take time to go through all the documents. The project is entirely administrative and therefore access is guaranteed only to the admin. After the implementation of this project, the blood and plasma searching process is expected to be faster, easier, and reliable. By the help of this project we can easily find the donor and acceptors within our city range. This can be very helpful to patients in emergencies. The number of persons who are in need of blood are increasing in large number day by day. In order to help people who are in need of blood, we created a blood bank management system that can be accessed online. Due to the pandemic situation we can't go out in search of plasma so this will be very helpful in these tough situations. We will be using Html, CSS for frontend and php and MySQL for backend.

INTRODUCTION

BLOOD BANK MANAGEMENT SYSTEM is a software application to maintain day to day transactions in a blood bank. This software helps to register all the donors, blood collection details, blood issued details etc. The main objective of this application is to automate the complete operations of the blood bank. They need to maintain hundreds of thousands of records. Also searching should be very fast so they can find the required details instantly through the software. The software product to be produced is BBMS which will automate the major blood bank operations. The first subsystem is adding Donor details and keeping track of their blood stock availability in the blood bank. An efficient blood bank management system should be developed, with the aim of ensuring that every patient has access to an adequate quantity of safe blood in a centralised manner. The management system should solve the issue of demand and wastage and lead to self sufficiency in the blood requirement. This should encourage new donors and retain old donors to donate blood.

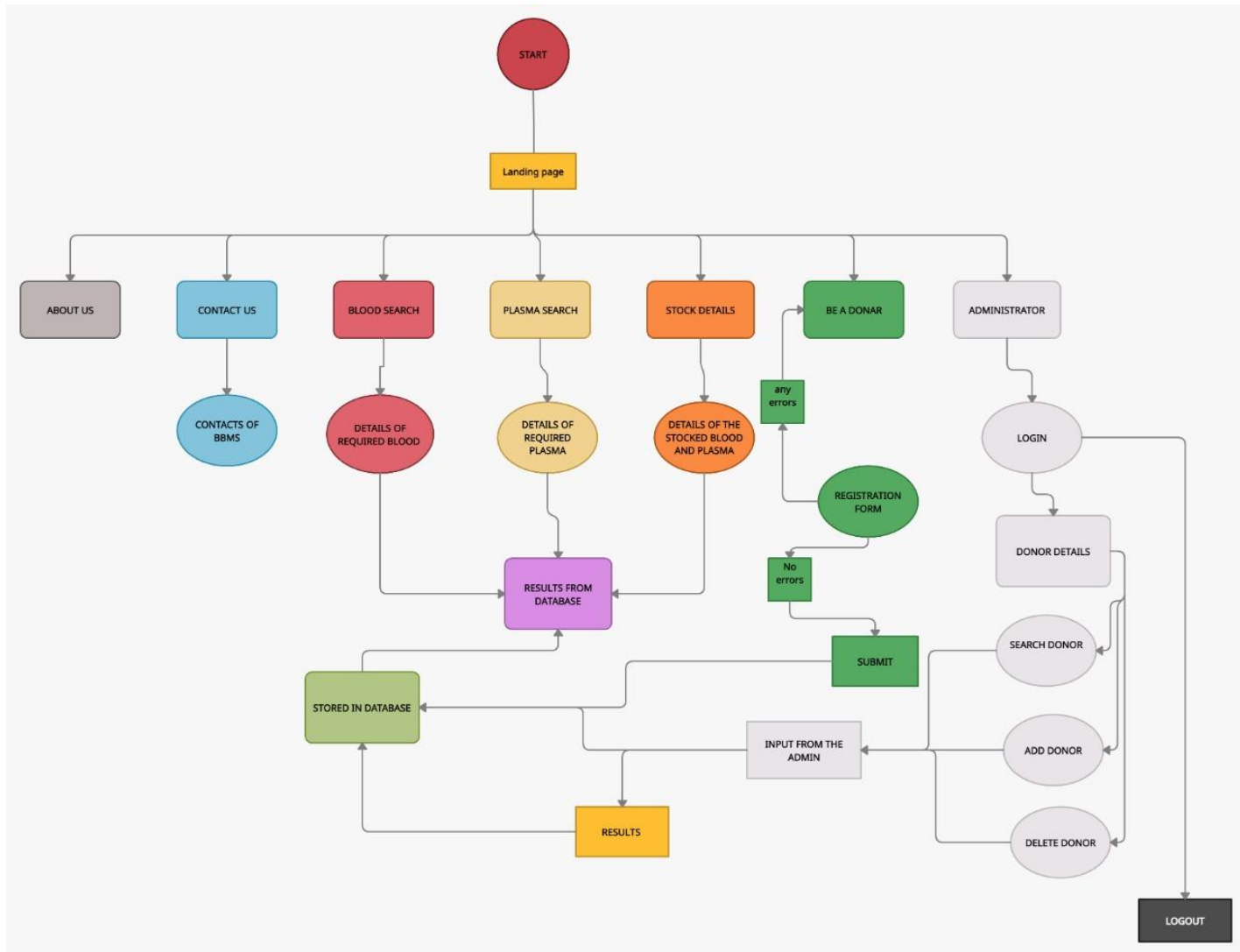
PROBLEM STATEMENT:

Scarcity of rare blood groups. Unavailability of blood during emergencies. Deaths due to the lack of blood during operations. Less awareness among people about blood donation. The Blood Bank Management System project aims to make all the procedures automated and therefore with computer systems it can be more fast and accurate. Tracking the database was complicated when the details are maintained manually. Very less availability of plasma in present pandemic situation and it is very difficult to find the plasma donor. Delay leads to death of the patient

Reason for the chosen topic?

The main aim of developing this system is to provide blood to the people who are in need of blood. The number of people who are in need of blood are increasing in large numbers day by day. Using this system users can search blood groups available in the city and he can also get the contact number of the donor who has the same blood group he needs. In order to help people who are in need of blood, this Online Blood Bank management system can be used effectively for getting the details of available blood groups and users can also get the contact number of the blood donors having the same blood group and within the same city. So if the blood group is not available in the blood bank, the user can request the donor to donate the blood to him and save someone's life. Using this bank management system people can register themselves or herself who want to donate blood.

PROCESS FLOW DIAGRAM:



MODULES:

***Blood Bank Home page :** This the homepage of the software where you can find the features, options,etc.

***About Us:** People can know how we are collecting blood, the procedures we take ,steps, all our identities and our contacts and about this blood bank system.

***Contact Us:** People can see our personal mail id and contact number to clarify any doubts

***Stock details:**all the operations related to blood stock are managed in this module.

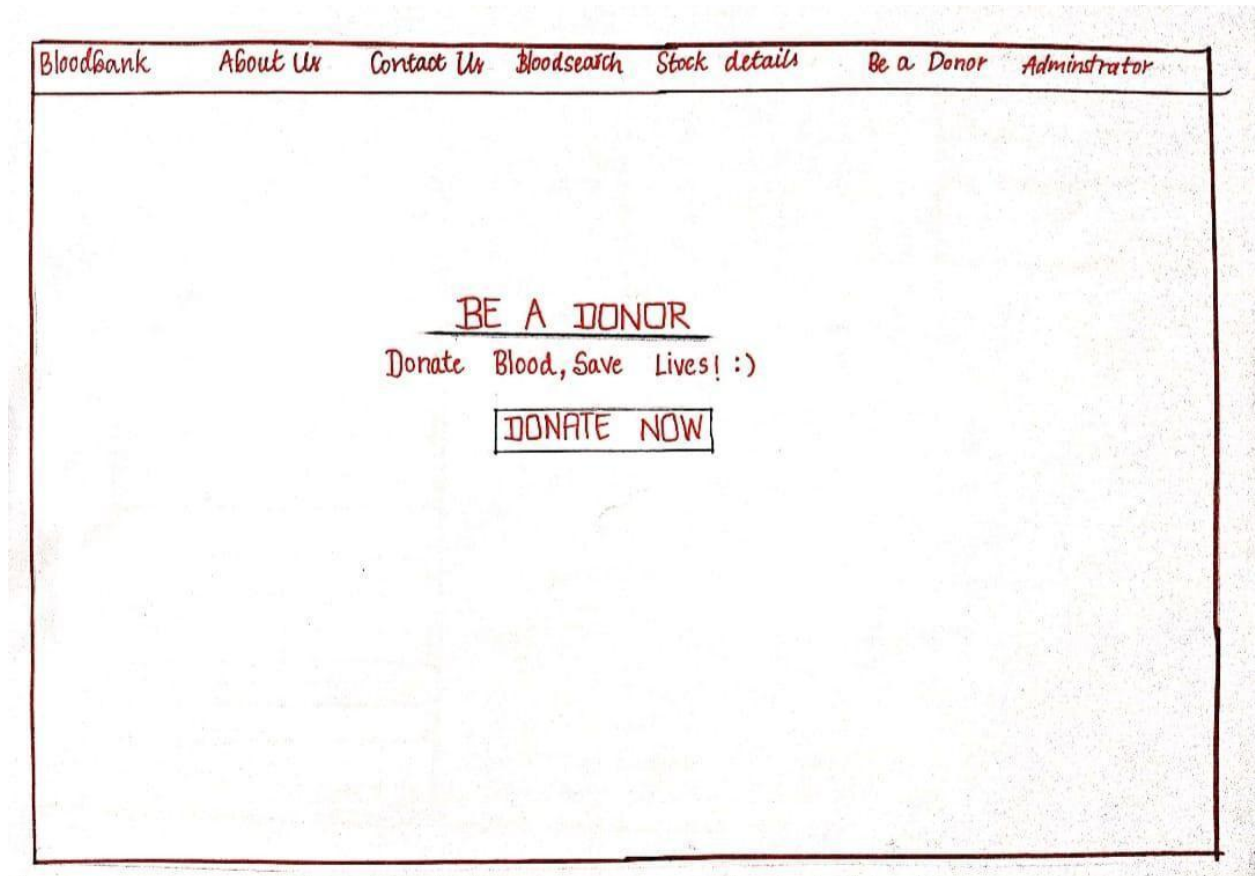
***Search for blood:** In this module the users can search the blood required.

***plasma search :**can search for plasma donor

***Admin:** Admin is able to manage the details of donors, add,search or delete a donor.

***Be Donor :**can donate blood whenever he will be able to donate.

PROTOTYPE DESIGN:



Bloodbank

About Us

Contact Us

Bloodsearch Stock Details

Be a Donor Administrator

ADMINISTRATOR LOGIN

USERNAME

PASSWORD

SUBMIT →

Be A Donor Registration form

Full name

Age

Email

Phone

Address

Message

Gender

Blood type

Are you a Plasma Donor?

SUBMIT

Plasmasearch

Search for Plasma

Search by Blood Type

SUBMIT

DATABASE DESIGN:

Server: 127.0.0.1 > Database: ospworks > Table: blooddonor

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	name	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
2	age	int(50)			No	None			Change Drop More
3	email	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
4	phone	bigint(100)			No	None			Change Drop More
5	address	varchar(300)	utf8mb4_general_ci		No	None			Change Drop More
6	msg	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
7	gender	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
8	blood	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
9	plasma	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalize

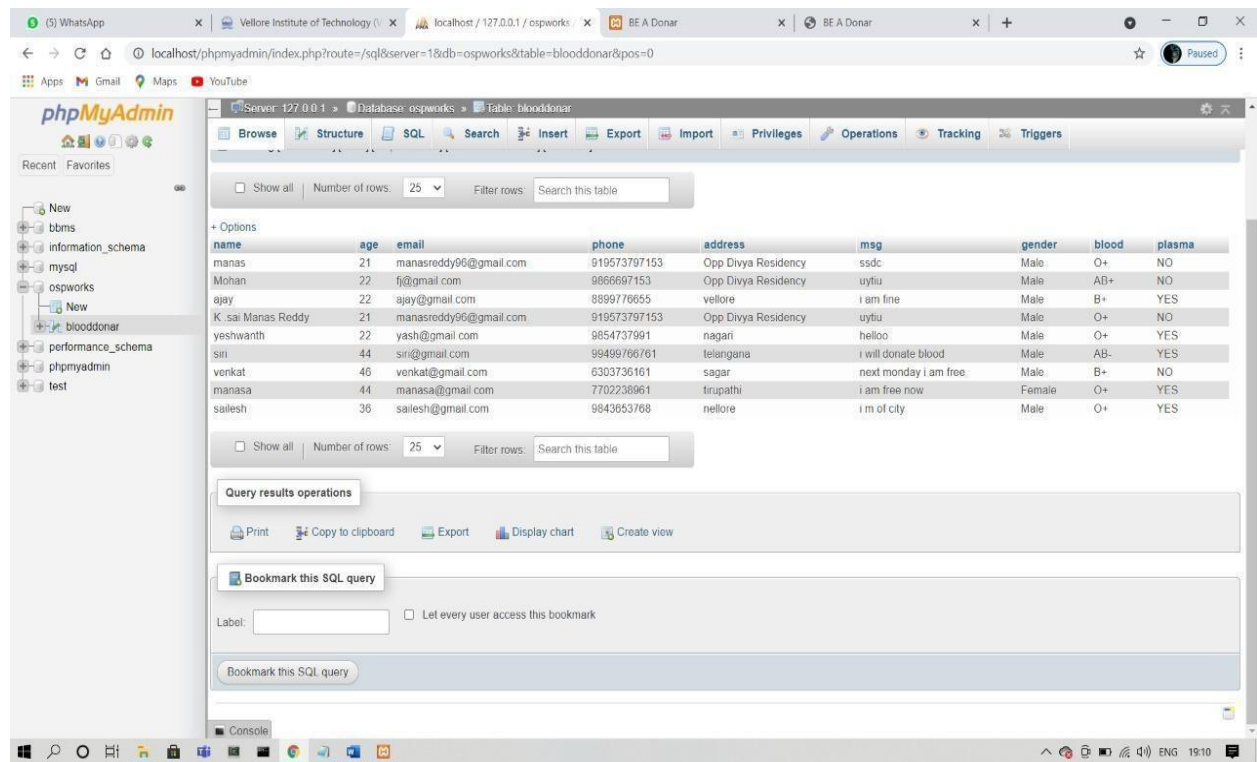
Add 1 column(s) after plasma Go

Indexes

No index defined

Create an index on 1 columns Go

AFTER DATA INSERTION THROUGH REGISTRATION FORM:



The screenshot shows the phpMyAdmin interface with the 'blooddonor' table selected. The table has 10 rows of data. Below the table, there are options to print, copy to clipboard, export, display chart, and create view. There is also a section to bookmark the SQL query.

name	age	email	phone	address	msg	gender	blood	plasma
manas	21	manasreddy90@gmail.com	919573797153	Opp Divya Residency	ssdc	Male	O+	NO
Mohan	22	fj@gmail.com	9866697153	Opp Divya Residency	uytiu	Male	AB+	NO
ajay	22	ajay@gmail.com	8899776655	vellore	i am fine	Male	B+	YES
K sai Manas Reddy	21	manasreddy96@gmail.com	919573797153	Opp Divya Residency	uytiu	Male	O+	NO
yeshwanth	22	yash@gmail.com	9854737991	nagari	helloo	Male	O+	YES
siri	44	siri@gmail.com	99499766761	telangana	i will donate blood	Male	AB-	YES
venkat	46	venkat@gmail.com	6303736161	sagar	next monday i am free.	Male	B+	NO
manasa	44	manasa@gmail.com	7702238661	tirupathi	i am free now	Female	O+	YES
sailesh	36	sailesh@gmail.com	9843653768	nellore	i m of city	Male	O+	YES

CONCLUSION

BLOOD BankManagement System are as follows:

- To provide a means for the blood bank to publicize and advertise blood donation programs.
- To allow the probable recipients to search and match the volunteer donors, and make requests for the blood.
- To provide an efficient donor and

blood stock management functions to the blood bank by recording the donor and blood details.

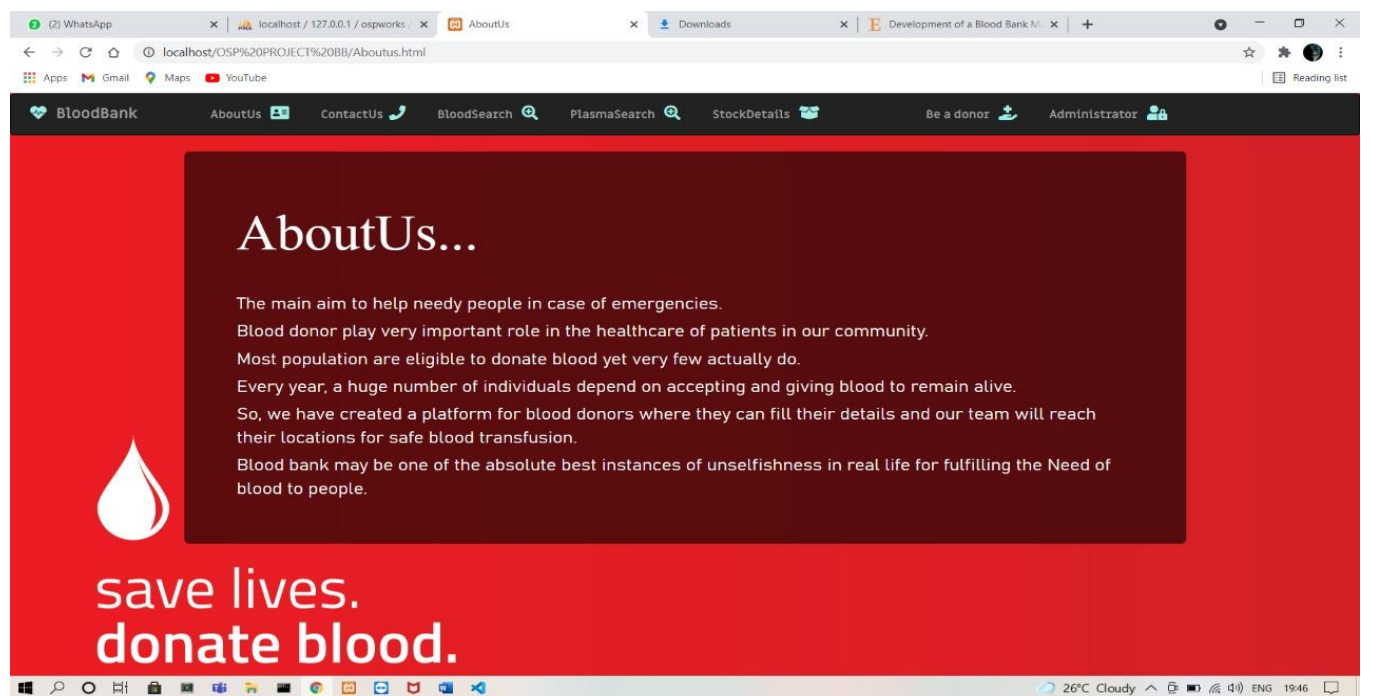
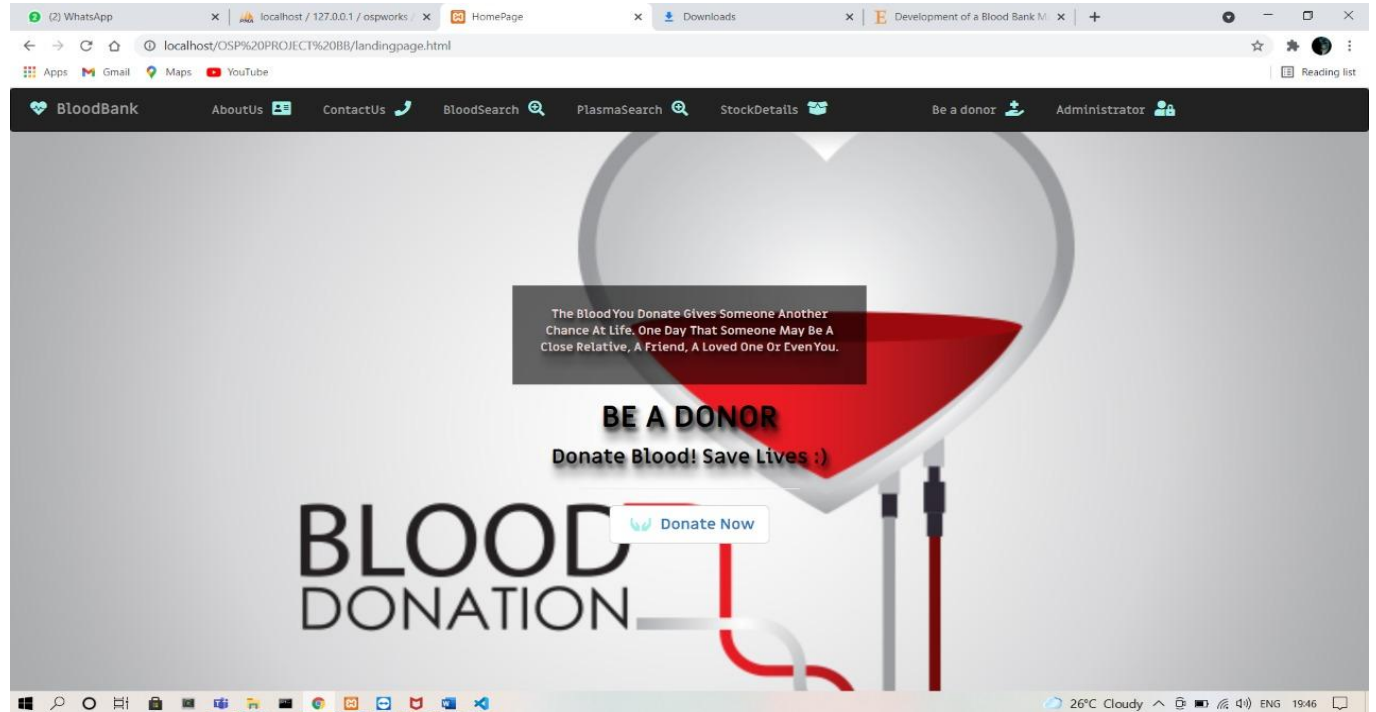
- To improve the efficiency of blood stock management by alerting the blood bank staff when the blood quantity is below its par level or when the blood stock has expired.
- To provide synchronized and centralized donor and blood stock databases.
- To provide immediate storage and retrieval of data and information.

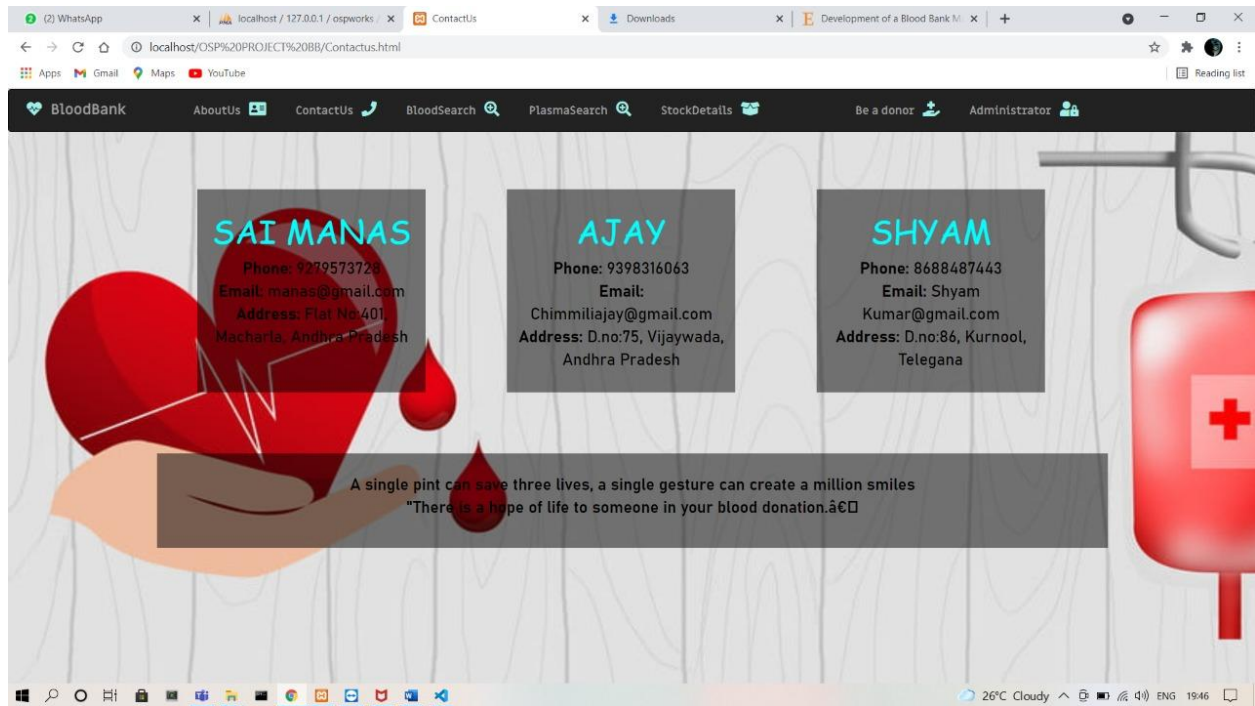
REFERENCES

<https://www.w3schools.com/>

<https://stackoverflow.com/>

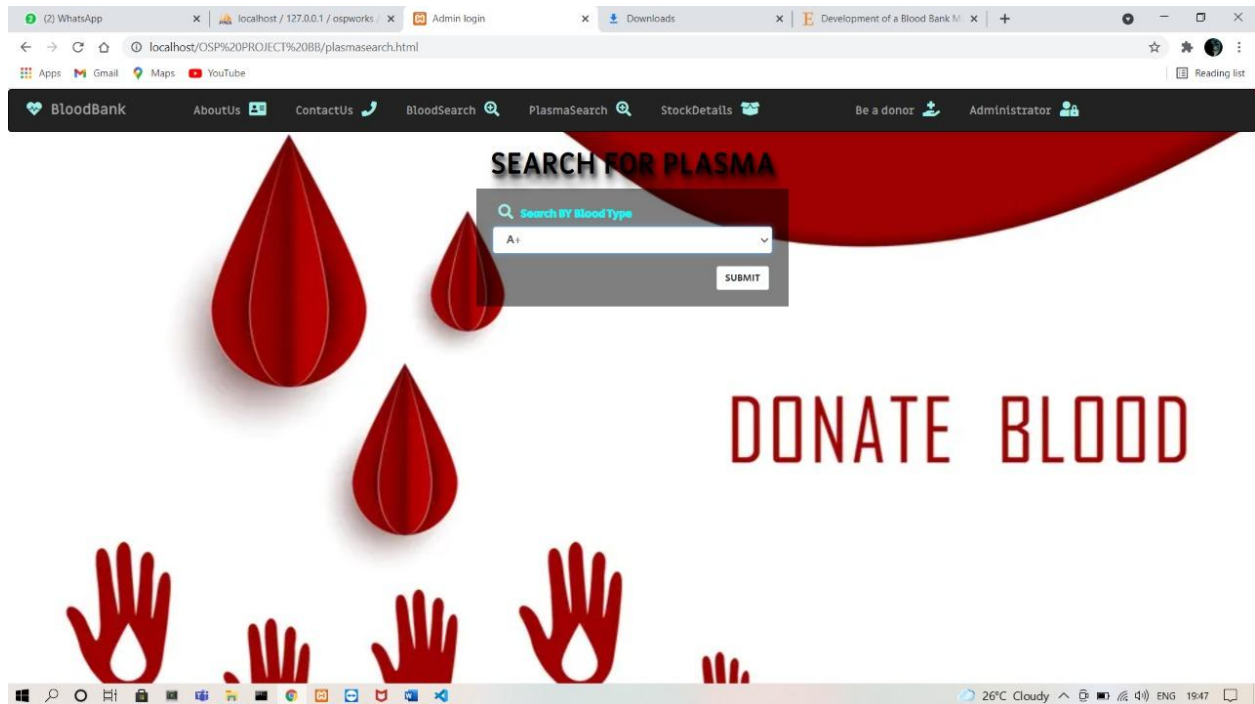
LANDING PAGE :





BLOOD AND PLASMA SEARCH:





STOCK DETAILS:

NAME	AGE	EMAIL	MOBILE NUMBER	GENDER	BLOOD TYPE	PLASMA DONOR
Manas Reddy	20	manas@gmail.com	9573797153	Male	O+	Yes
chinna	15	chinna@gmail.com	9045765572	Male	B+	No
chanti	18	chanti@gmail.com	9966554477	Male	A+	YES
sheela	23	sheela@gmail.com	9949976676	Female	AB-	Yes
Raja	21	raja@gmail.com	7788996655	Male	A+	Yes
shyamala	30	shyamala@gmail.com	8877665599	Female	B+	No
shekar	33	shekar@gmail.com	7865439900	Male	O+	No

REGISTRATION FORM OF THE DONOR:

The screenshot shows a web browser window with the URL `localhost/OSP%20PROJECT%20BB/Beadonar.php`. The page features a navigation bar with links: BloodBank, AboutUs, ContactUs, BloodSearch, PlasmaSearch, StockDetails, Be a donor, and Administrator. The main content area is titled "REGISTRATION FROM" and contains a form with the following fields: Fullname (Manas), Age (20), Email (manas@gmail.com), Phone (9999999999), Address (Chittoor), Message (Leave a Message), Gender (---SELECT---), and Blood type (---SELECT---). The background of the form is decorated with a large red heart and a blue outline of a blood drop.

ADMIN LOGIN,DASHBOARD:

The screenshot shows a web browser window with the URL `localhost/OSP%20PROJECT%20BB/admin.html`. The page features a navigation bar with links: BloodBank, AboutUs, ContactUs, BloodSearch, PlasmaSearch, StockDetails, Be a donor, and Administrator. The main content area is titled "ADMINISTRATOR LOGIN" and contains a form with the following fields: Username (19Bit0027) and Password (*****). A "SUBMIT" button is located below the password field. The background of the form is decorated with a large red heart and a blue outline of a blood drop. Below the form, the text "DONATE BLOOD" is displayed in a large, bold, red font. The bottom of the page features a row of red hands.

ADMINISTRATOR DASHBOARD

ADMIN

DONOR DETAILS

SEARCH DONOR

SEARCH PLASMA DONOR

ADD DONOR

DELETE DONOR

300ml* blood can save 1 PRECIOUS LIFE



DONOR DETAILS

NAME	AGE	EMAIL	MOBILE NUMBER	GENDER	BLOOD TYPE	PLASMA DONOR
Manas Reddy	20	manas@gmail.com	9573797153	Male	O+	Yes
chinna	15	chinna@gmail.com	9045765572	Male	B+	No
chanti	18	chanti@gmail.com	9966554477	Male	A+	YES
sheela	23	sheela@gmail.com	9949976676	Female	AB-	Yes
Raja	21	raja@gmail.com	7788996655	Male	A+	Yes
shyamala	30	shyamala@gmail.com	8877665599	Female	B+	No
shekar	33	shekar@gmail.com	7865439900	Male	O+	No

ADMIN

DONOR DETAILS

SEARCH DONOR

SEARCH PLASMA DONOR

ADD DONOR

DELETE DONOR

Search for BLOOD

Search BY Blood Type

A+

SUBMIT

DONOR DETAILS

NAME	AGE	EMAIL	MOBILE NUMBER	GENDER	BLOOD TYPE
Manas Reddy	20	manas@gmail.com	9573797153	Male	O+
chinna	15	chinna@gmail.com	9045765572	Male	B+
chanti	18	chanti@gmail.com	9966554477	Male	A+
sheela	23	sheela@gmail.com	9949976676	Female	AB-
Raja	21	raja@gmail.com	7788996655	Male	A+
shyamala	30	shyamala@gmail.com	8877665599	Female	B+
shekar	33	shekar@gmail.com	7865439900	Male	O+

ADMIN

DONOR DETAILS

SEARCH BLOOD DONOR

SEARCH PLASMA DONOR

ADD DONOR

Search for PLASMA DONOR

Search BY Blood Type

O+

SUBMIT

DONOR DETAILS

NAME	AGE	EMAIL	MOBILE NUMBER	GENDER	BLOOD TYPE
Manas Reddy	20	manas@gmail.com	9573797153	Male	O+
chinna	15	chinna@gmail.com	9045765572	Male	B+
chanti	18	chanti@gmail.com	9966554477	Male	A+
sheela	23	sheela@gmail.com	9949976676	Female	AB-
Raja	21	raja@gmail.com	7788996655	Male	A+
shyamala	30	shyamala@gmail.com	8877665599	Female	B+
shekar	33	shekar@gmail.com	7865439900	Male	O+

ADMIN

DONOR DETAILS

SEARCH BLOOD DONOR

SEARCH PLASMA DONOR

ADD DONOR

SOURCE CODE:

```
<!DOCTYPE html>
<html>

<head>
  <title>HomePage</title>
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
integrity="sha384-BVYiSIFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4
u" crossorigin="anonymous">
  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.14.0/css/all.css"
integrity="sha384-HzLeBuhoNPvSl5KYnjx0BT+WB0QEEqLprO+NBkkk5gbc67FTaL7XIGa2w1L0Xb
gc" crossorigin="anonymous">
  <script src="https://code.jquery.com/jquery-3.5.1.min.js"
  integrity="sha256-9/aliU8dGd2tb6OSsuzixeV4y/faTqgFtohetphbbj0="
crossorigin="anonymous"></script>
  <link rel="stylesheet" href="landingpage.css">
  <link href="https://fonts.googleapis.com/css2?family=Miriam+Libre:wght@700&display=swap"
rel="stylesheet">
</head>

<body>
  <nav class="navbar navbar-inverse">
    <div class="container-fluid">
      <div class="navbar-header">
        <button type="button" class="navbar-toggle collapsed" data-toggle="collapse"
        data-target="#bs-example-navbar-collapse-1" aria-expanded="false">
          <span class="sr-only">Toggle navigation</span>
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
        </button>
        <a class="navbar-brand" href="landingpage.html"><i class="fas fa-heartbeat"></i> BloodBank</a>
      </div>
      <div class="container">
        <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
          <ul class="nav navbar-nav">
            <li><a href="Aboutus.html">AboutUs <i class="fas fa-address-card"></i></a></li>
            <li><a href="Contactus.html">ContactUs <i class="fas fa-phone"></i></a></li>
            <li><a href="bloodsearch.html">BloodSearch <i class="fas fa-search-plus"></i></a></li>
            <li><a href="plasmasearch.html">PlasmaSearch <i class="fas fa-search-plus"></i></a></li>
            <li><a href="stock.php">StockDetails <i class="fas fa-box-open"></i></a></li>
          </ul>

          <ul class="nav navbar-nav navbar-right">
```

```

        <li><a href="Beadonar.php">Be a donor <i class="fas fa-hand-holding-medical"></i></a></li>
        <li><a href="admin.html">Administrator <i class="fas fa-user-lock"></i></a></li>
    </ul>
</div>
</div>
</div>
</nav>
<div class="container">
    <div class="col-lg-12">
        <div id="content">
            <div id="quote">
                <p>The Blood You Donate Gives Someone Another Chance At Life. One Day That Someone May
Be A Close Relative, A
                Friend, A Loved One Or Even You.</p>
            </div>
            <h1>BE A DONOR</h1>
            <h3>Donate Blood! Save Lives :)</h3>
            <hr>
            <button class="btn btn-default btn-lg"><a href="Beadonar.php"><i class="fas fa-hands"></i>
Donate
                Now</a></button>

        </div>
    </div>
</div>

</body>

</html>

```