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Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Plasma Donation Management System

PROJECT REPORT

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Submitted To:

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ABSTRACT

The principle point of building up this framework is to give plasma to the people affected with Covid-19 who need plasma in order to survive . The quantity of people who need plasma are expanding in huge number. Utilizing this framework client can seek plasma accessible in the city and he can likewise get contact number of the benefactor who has a similar blood assemble he needs. Keeping in mind the end goal to help individuals who need plasma, this Online Plasma Donation administration framework can be utilized viably to get the points of interest of accessible plasma gatherings and client can likewise get contact number of the blood benefactors having a similar plasma gathering and inside a similar city. So if the plasma isn't accessible in the plasma donation center client can ask for the contributor to give the blood to him and spare somebody life. Utilizing this administration framework individuals can enroll himself or herself who like to give plasma. To enlist in the framework they need to enter their contact data like location versatile number and so forth.

This plasma donation administration framework is an online site so it is effectively accessible to everybody. At the point when a person need to give blood he need to enlist to the framework. Benefactor enlistment is simple, to get enlist to the framework he need to top off enrolment shape. Then enrolment shape he can make username and secret key. Benefactor need to give data like plasma gathering, contact points of interest and so forth contributor can likewise change his record data when he needs utilizing his username and secret word.

Utilizing this blood donation framework individuals can look plasma aggregate accessible which they are required. They check it web based utilizing our plasma donation administration site. In the event that on the off chance that blood amass isn't accessible in plasma donation center, they can likewise get contact quantities of the people who has a similar blood assemble he is require. Also, he can ask for the

individual to give the blood for sparing somebody life. Our framework additionally enable client to look online the individual who have a similar blood bunch he needs and on the off chance that he discover the If he discover a benefactor in his city then we give him all points of interest of the contributor, on off chances that he doesn't discover any giver then he is given the contact numbers and addresses of the Life Saving Contact Persons for enormous urban communities.

INTRODUCTION

Problem Identification:

Many people are suffering a loss in many different ways due to Covid-19 pandemic .People affected with Covid-19 are unable to find a perfect way to search for the plasma donor.

Scope:

In this project we create a web-application where-in we create a plasma donation portal for people affected with Covid-19. Using this portal, Covid-19 affected people can find a matching plasma donor helping them save their lives.

Objective:

Our objective is to help Covid-19 affected patients to find a plasma donor in order to save their lives.

Limitations:

In this project, we are blindly believing the details given by the user. We are not asking for proof to validate whether the given details are correct.

System Analysis:

Existing System:

Blood donation management portal was present before COVID pandemic. In those kinds of portal, users will be able to donate and search for the blood.

Proposed System:

We built up this framework is to help with providing plasma to the people affected with Covid-19 who need plasma in order to survive . The quantity of people who need plasma are expanding in huge number. Utilizing this framework client can seek plasma accessible in the city and he can likewise get contact number of the benefactor who has a similar blood assemble he needs. Keeping in mind the end goal to help individuals who need plasma, this Online Plasma Donation administration framework can be utilized viably to get the points of interest of accessible plasma gatherings and client can likewise get contact number of the blood benefactors having a similar plasma gathering and inside a similar city. So if the plasma isn't accessible in the plasma donation center client can ask for the contributor to give the blood to him and spare someone’s life.

Requirements Specifications:

Software Requirements:

Operating System	**:**	Windows 7 and above
User Interface	**:**	HTML
Programming Language	**:**	PHP
Database	**:**	MySQL
Web Server	**:**	Tomcat-Apache

Hardware Requirements:

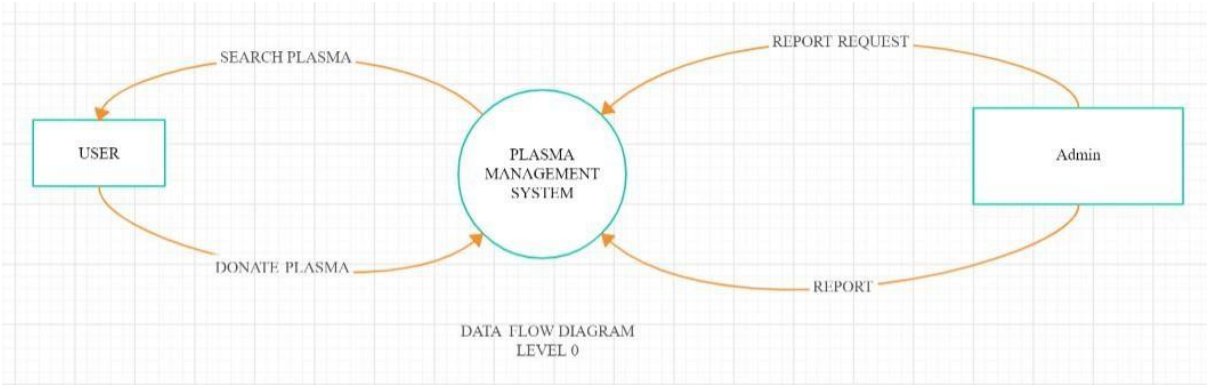
- **Processor :** intel i3 and above
- **Monitor:** 1080x1020
- **Keyboard**
- **Mouse**
- **Hard Disk :** 10GB minimum
- **RAM :** 256MB or more

ARCHITECTURE DIAGRAM

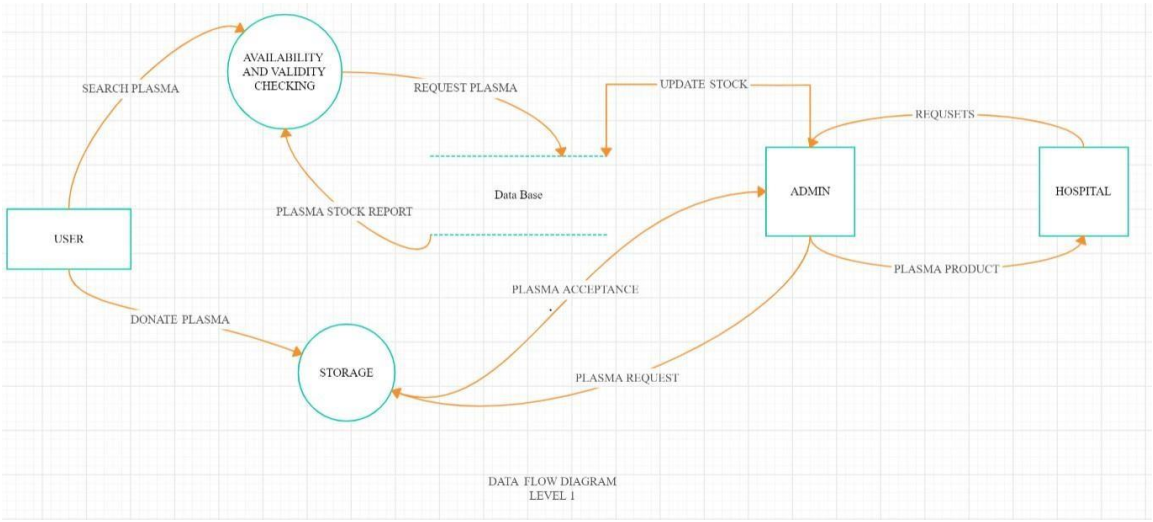
Design:

Data Flow Diagrams:

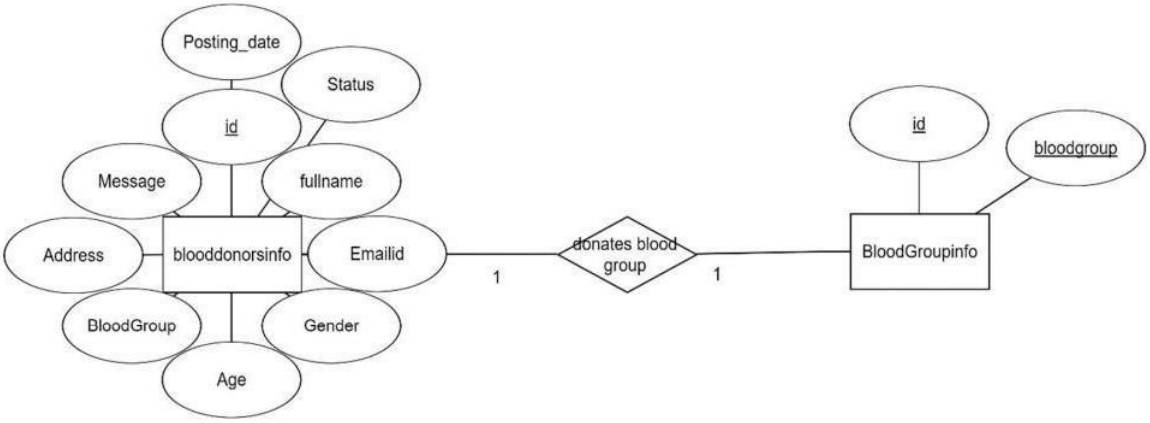
Level–0:

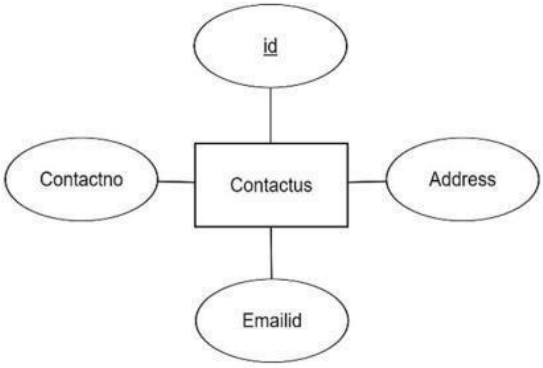


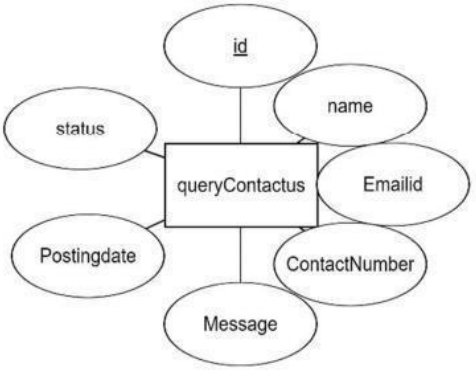
Level-1:

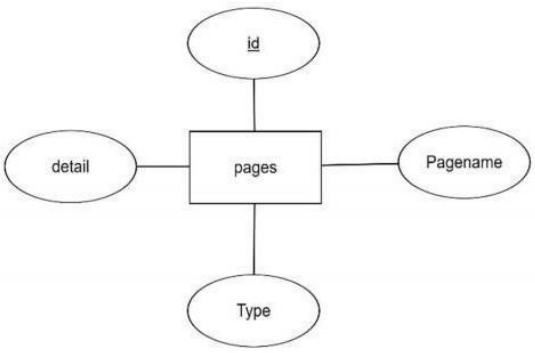


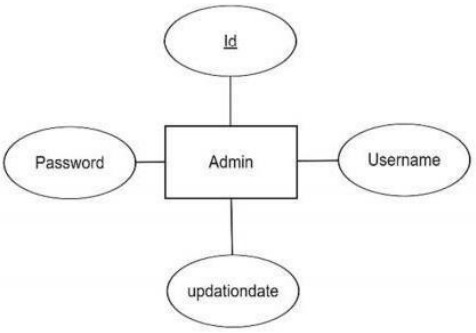
ER Diagrams:



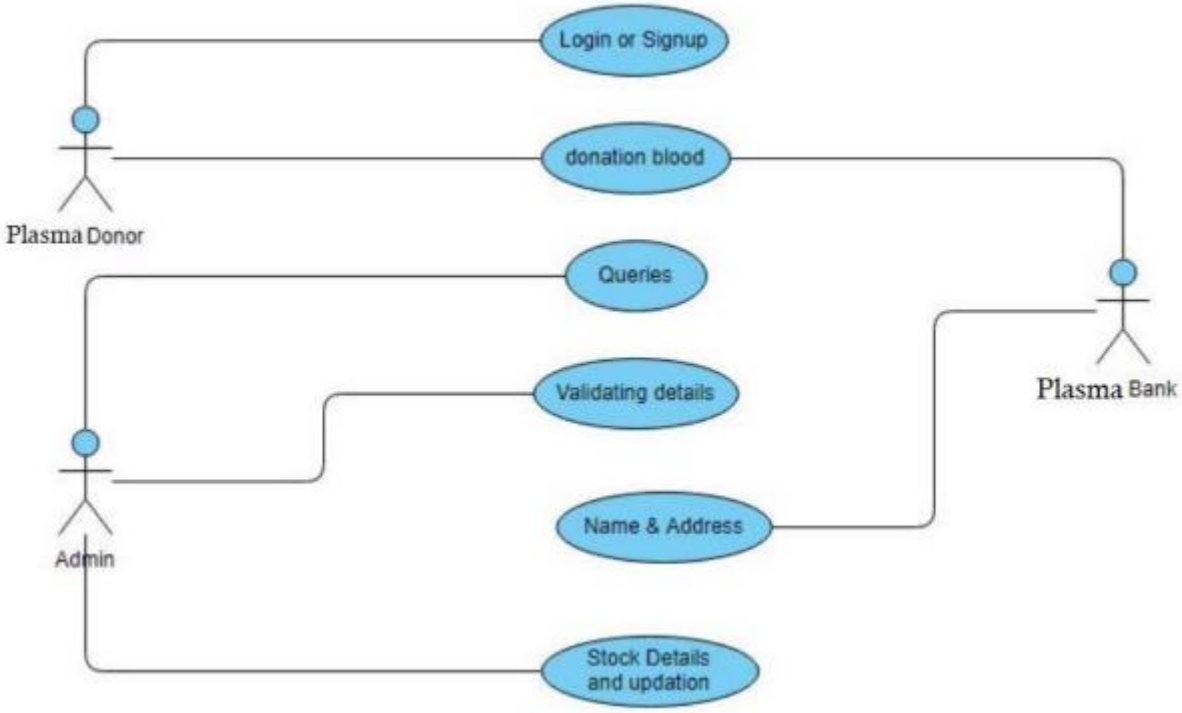








Use Case Diagram:



System Implementation:

Module Description:

Become a Donor:

In this module, users can register themselves to become a donor . Before getting registered as a donor, user will be asked about the details to check whether he/she is eligible for donating plasma .After satisfying the eligibility criteria, details of the user will be collected and added to the database .

Search a donor:

In this module, user will be able to search for the plasma which matches their requirements.

Contact Us:

In this module, user can ask a query to the admin by entering their details like E-mail Id, Phone no. and the query. User can do this without even registering in the portal.

Admin:

In this module, admin will be able to change their password, add a donor, view the list of donors, view the queries place by users in contact us page, and can manage why become donor and about page.

Appendices:

Sample Source Code:

Home.html:

```
<!DOCTYPE html>
<html>
<head>
<title>Plasma Management System</title>
<style>
body, html {
 height: 100%;
 margin: 0;
}
.topheader{
display:inline-block;
position:fixed;
background-color:#181818;
height:40px;
top: 0;
left:0;
right:0;
padding-top:0.5px;
padding-right:10px;
padding-bottom:20px;
z-index: 9999;
}
a.links{
display:block;
color:#A9A9A9;
padding-left:15px;
```

```
text-decoration: none;
font-size:17px
}
a.links:hover{
color:white;
cursor:pointer;
}
.inline{
display:inline-block;
text-align:left;
}
.bottom{
position:relative;
background-color:#181818;
height:50px;
bottom: 0;
left:0;
right:0;
padding-top:2px;
text-align:center;
}
.projectname{
display:inline-block;
color:#A9A9A9;
text-align:left;
padding-right:150px;
padding-left:150px;
color:white;
font-size:25px;
```

```
}
.indeximg{
background-image: url("indexpage.png");
 height:55%;
background-position: center;
 background-repeat: no-repeat;
 background-size: cover;
}
.card{
top:20px;
position:relative;
border:1px solid #F0F0F0;
border-radius:5px;
width:400px;
padding:0;
border-spacing:0;
display:inline-block;
height:300px;
}
.cardhead{
font-size:20px;
border:1px solid #F0F0F0;
background-color:#F0F0F0;
border-top-left-radius:4px;
border-top-right-radius:4px;
padding:5px;
}
.cardtext{
text-align:justify;
```

```
font-size:20px;
}
.cplasma{
border:1px solid white;
width:600px;
text-align:left;
display:inline-block;
height:400px;
font-size:20px;
}
.bloodgrpimg{
float:right;
margin-right:120px;
}
.donorrecipiants{
top:20px;
border:1px solid white;
width:800px;
text-align:left;
display:inline-block;
height:170px;
font-size:20px;
}
.becomedonorlink{
float:right;
border:1px solid black;
border-radius:10px;
padding-left:80px;
padding-right:80px;
```

```
padding-top:15px;
padding-bottom:15px;
background-color:white;
margin-top:60px;
margin-right:80px;
}
.becomedonorlink:hover{
background-color:#C8C8C8;
}
</style>
</head>
<body>
<div class="topheader">
<ul>
<li class="projectname">Plasma management system</li>
<li class="inline"><a class="links" href="home.html">Home</a></li>
<li class="inline"><a class="links" href="Admin/admin.php"
target="_blank">Admin</a></li>
<li class="inline"><a class="links" href="About.php">About</a></li>
<li class="inline"><a class="links" href="whybecomeadonor.php">Why
Become Donor</a></li>
<li class="inline"><a class="links" href="check.html" >Become a
Donor</a></li>
<li class="inline"><a class="links" href="searchplasma.html">Search
plasma</a></li>
<li class="inline"><a class="links" href="contactus.php">Contact Us</a></li>
</ul>
</div>
<br>
```

<table class="card">
<tr>
<th class="cardhead">Convalescent Plasma</th>
</tr>
<tr>
<td class="cardtext">Convalescent refers to anyone recovering from a disease. Plasma is
the yellow, liquid part of blood that contains antibodies. Antibodies are proteins made by
the body in response to infections. Convalescent plasma from patients who have already rec
overed from coronavirus disease 2019 (COVID-19) may contain antibodies against COVID 19. Giving this convalescent plasma to hospitalized people currently fighting COVID 19 may help them recover.</td>
</tr>
</table>

<table class="card">
<tr>
<th class="cardhead">Donate if you satisfy all these</th>
</tr>
<tr>
<td class="cardtext">
<ul>
<li>You are at least 17 years old and weigh 110 lbs(approx 50Kg). Additional weight req
uirements apply for donors age 18 or younger.</li>

<li>In good health. You generally feel well, even if you're being treated for a chronic
condition.</li>
<li>Have a prior, verified diagnosis of COVID-19, but are now symptom free.</li>
<ul>
</td>
</tr>
</table>

<table class="card">
<tr>
<th class="cardhead">After donating plasma</th>
</tr>
<tr>
<td class="cardtext">
<ul>
<li>Keep the pressure dressing on your arm for about 30 minutes, and the plaster on for
6 hours.</li>
<li>Avoid using your donation arm to carry anything very heavy for the rest of the day.
</li>
<li>Avoid having a hot bath after you have given plasma.</li>
<li>Avoid heavy exercise.</li>
<ul>
</td>
</tr>
</table>

```
<br>
<br>
<hr>
<div class="cplasma">
<h1 style="font-size:40px">Convalescent Plasma Therapy</h1>
<p>The procedure is safe and that a plasma donor can donate again and again, three or four
times.</p>
<ul >
 <li>Plasma donation does not harm the donor. It carries the same risk as blood transfus
ion.</li>
 <li>The donation happens between compatible donor and recipient.</li>
 <li>Donors can donate more than once, based on their physical condition.</li>
 <li>Plasma therapy can be repeated, should the recipient not show a good response. The
plasma from another donor could be tried the second time.</li>
</ul>
</div>
<img class="bloodgrpimg" src="plasma.jpg" height="400" width="450px">
<hr>
<div class="donorrecipiants">
<h1 style="font-size:30px">THE PROCESS</h1>
<p>Donating plasma is similar to giving blood. A needle is placed into a vein in your arm.
Plasma is collected through a process call plasmapheresis and is conducted in cycles that m
ay take up to an hour. Whole blood is drawn. The plasma is separated from the red blood cel
```

ls and other cellular components. These are returned to your body with sterile saline solut

ion to help the body replace the plasma removed from the whole blood.

<p>

<a style="text-decoration:none;" href="check.html"> Become a donor</a></button>

</body>

</html>

check.php:

```
<!DOCTYPE html>
<html>
<style>
.container {
padding:
16px;
}
body {

}
input[type=text],
 input[type=password] { width:
 100%;
 padding: 15px;
 margin: 5px 0
```

```
 22px 0; display:
 inline-block;
 border: none;
 background:
 #f1f1f1;
}
input[type=text]:focus,
 input[type=password]:focus { background-
 color: #ddd;
 outline: none;
}
hr {
 border: 1px solid #f1f1f1;

margin-bottom: 25px;
}
.registerbtn {
 background-color:
 #4CAF50; color: white;
 padding: 16px
 20px; margin:
 8px 0; border:
 none; cursor:
 pointer; width:
 100%;
 opacity: 0.9;
}
```

```
.registerbtn:hove
r { opacity:1;
}
form {
 margin: 0
 auto; width:
 600px;
}
</style>
<body>
<div class="divsection">
<form method="POST" action="covid.php">
<h1 style="text-align: center">ELIGIBILITY CRITERIA</h1>
<h3>HAVE YOU SUFFERRED FROM COVID-19</h3>
<input type="radio" name="covid-19" value="Yes" checked="checked"> Yes
<input type="radio" name="covid-19" value="No"> No
<br>

<h3>AGE</h3>
<input type="radio" name="age" value="Less than 18"> Less than 18
<input type="radio" name="age" value="More than 18" checked="checked">
More than 18
<br>
<h3>WEIGHT</h3>
<input type="radio" name="weight" value="Less than 110lbs"> Less than 50kgs
<input type="radio" name="weight" value="More than 110lbs"
checked="checked"> More than 50kgs
<br>
<h3>Was your COVID-19 diagnosis confirmed by a lab test?</h3>
```

```
<input type="radio" name="c1" value="Yes" checked="checked"> Yes

<input type="radio" name="c1" value="No"> No

<br><h3>Do you currently have symptoms?</h3>

<input type="radio" name="c2" value="Yes"> Yes

<input type="radio" name="c2" value="No" checked="checked"> No

<br><h3>Has it been at least 14 days since the last day of your symptoms
(COVID-19 symptoms include fever, cough and shortness of
breath)?</h3>

<input type="radio" name="c3" value="Yes" checked="checked"> Yes

<input type="radio" name="c3" value="No"> No

<br><h3>Have you had a follow up test that was negative for COVID-19 or
shows you no longer have COVID-19?</h3>

<input type="radio" name="c4" value="Yes" checked="checked"> Yes

<input type="radio" name="c4" value="No"> No

<br>

<button type="submit" class="registerbtn" value="submit">submit</button>

<p id="demo"></p>

</form>

</div>

</body>

</html>
```

search plasma. php :

```
  <!DOCTYPE html>
<html>
<head>
<style>
body, html
{
 height: 100%;
 margin: 0;
  background-image:
 url("blooddonors.png"); background-
 position: center;
 background-repeat: no-
 repeat; background-size:
 cover;
}
.firstheading{
        color:green;
        font-
        size:75px;
}
.secondheading{
        color:blue;
        font-
        size:75px;
}
table,td{
```

```
        border:1px solid
        black; border-
        collapse:collapse;
        background-
        color:white;
        height:30px;
}
th{
    border:1px solid black;
border-collapse:collapse;


        background-
        color:grey;
        height:30px;
}
</style>
</head>
<body>
<center><div class="firstheading"><b>Search plasma</b></div></center>
<center><div class="secondheading"><b>Here is the list
of<br> plasma Donors</b></div></center>
<center>
<?php
if( isset( $_POST['search_plasma'] ) )
{
        $status=1;
        $bloodgroup=$_POST['sbloodgrp'];
        $sql = "SELECT * from blooddonorsinfo where
```

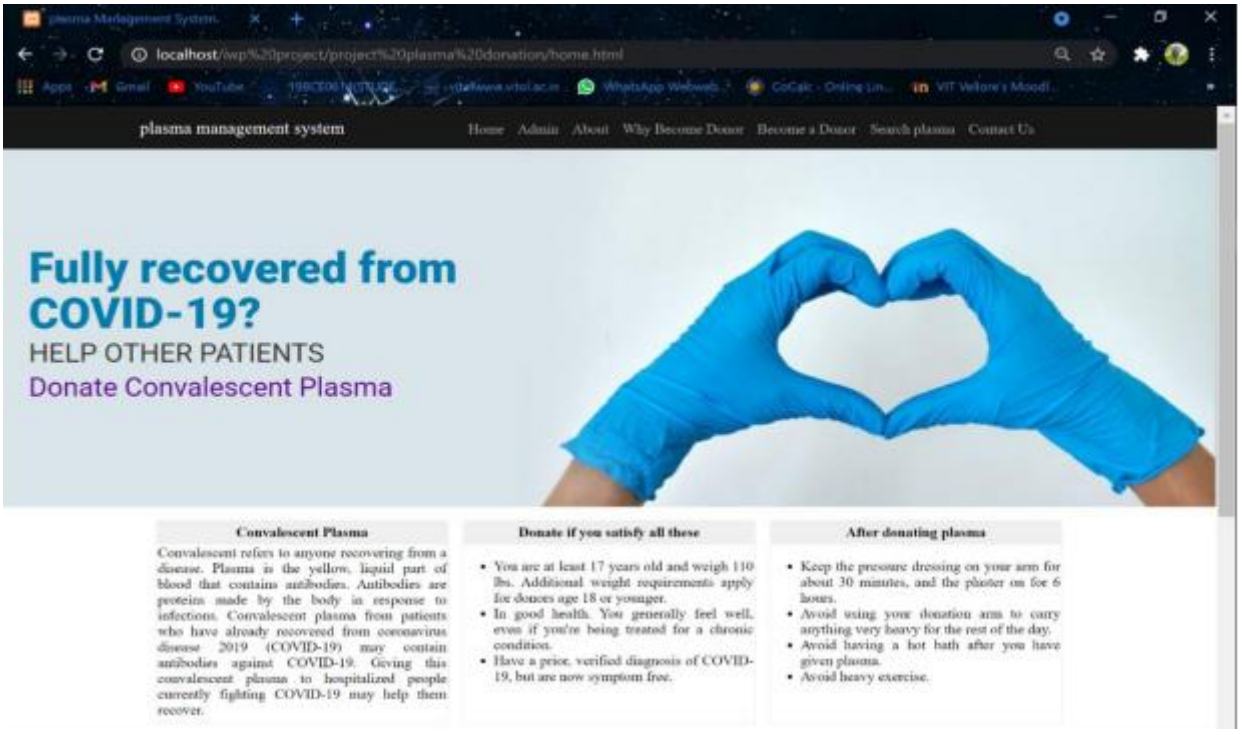
```
(status='$status' and BloodGroup='$bloodgroup')";
        $host = 'localhost';
        $user = 'root';
        $pass = '';
        $con=mysqli_connect($host, $user,
        $pass);
        mysqli_select_db($con,'dbms');
        $query =
        mysqli_query($con,$sql);
        echo "<table>
        <tr>
        <th>Id</th>
        <th>Full Name</th>
        <th>Mobile Number</th>
        <th>Email-Id</th>
        <th>Gender</th>
        <th>Age</th>
```

```
<th>Blood Group</th>
<th>Address</th>
<th>Message</th>
<th>Posting Date</th>
<th>status</th>
</tr>";
$sno=1;
while($value=mysqli_fetch_array($q
uery))
{
        echo
        "<tr
        >
        <td>".$value["id"]."</td>";
        echo "<td>".$value['FullName']."</td>";
        echo
        "<td>".$value['MobileNumber']."</td>
        "; echo
        "<td>".$value['EmailId']."</td>";
        echo "<td>".$value['Gender']."</td>";
        echo "<td>".$value['Age']."</td>";
        echo
        "<td>".$value['BloodGroup']."</td>"
        ; echo
        "<td>".$value['Address']."</td>";
        echo
        "<td>".$value['Message']."</td>";
```

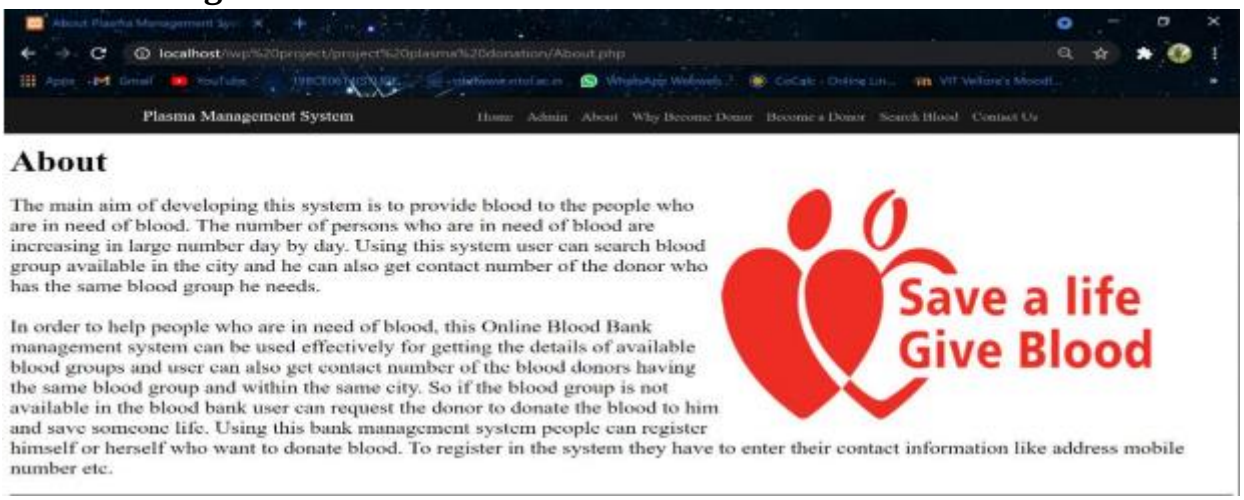
```
                echo
                "<td>".$value['PostingDate']."</td>"
                ; echo
                "<td>".$value['status']."</td>";
                echo "</tr>";

        }
}
?>
</center>
</body>
</html>
```

SCREENSHOTS:

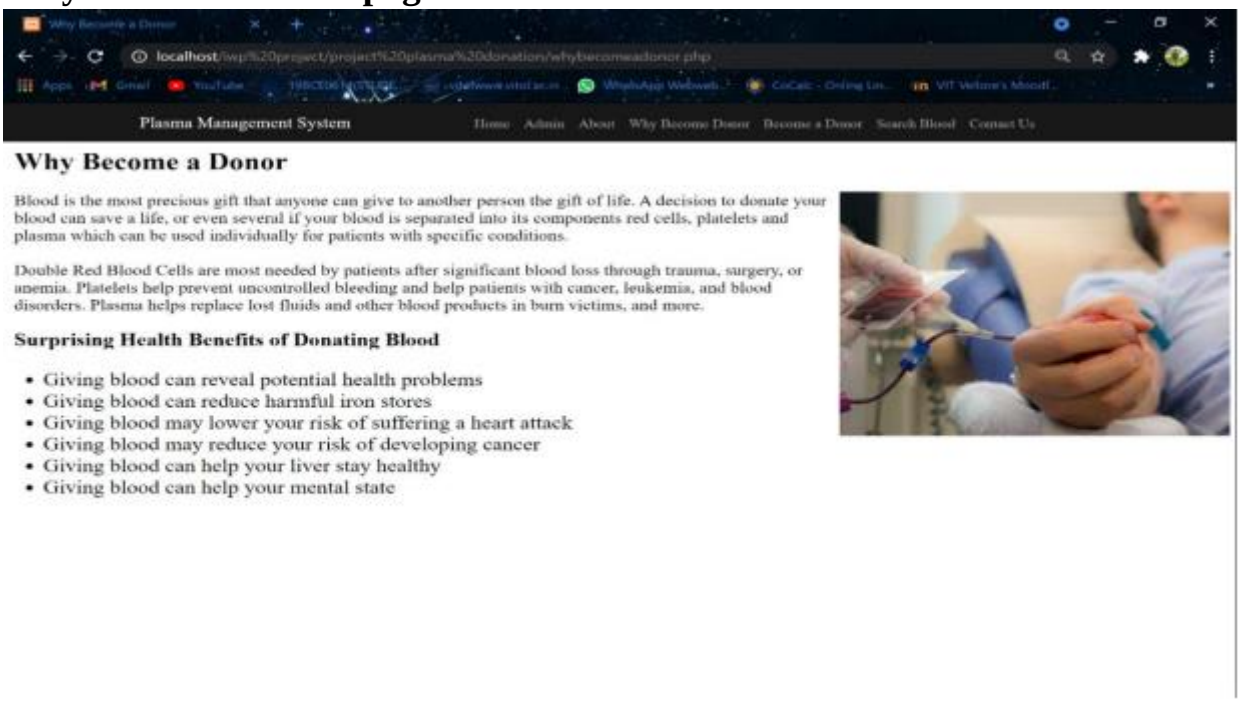
Homepage:



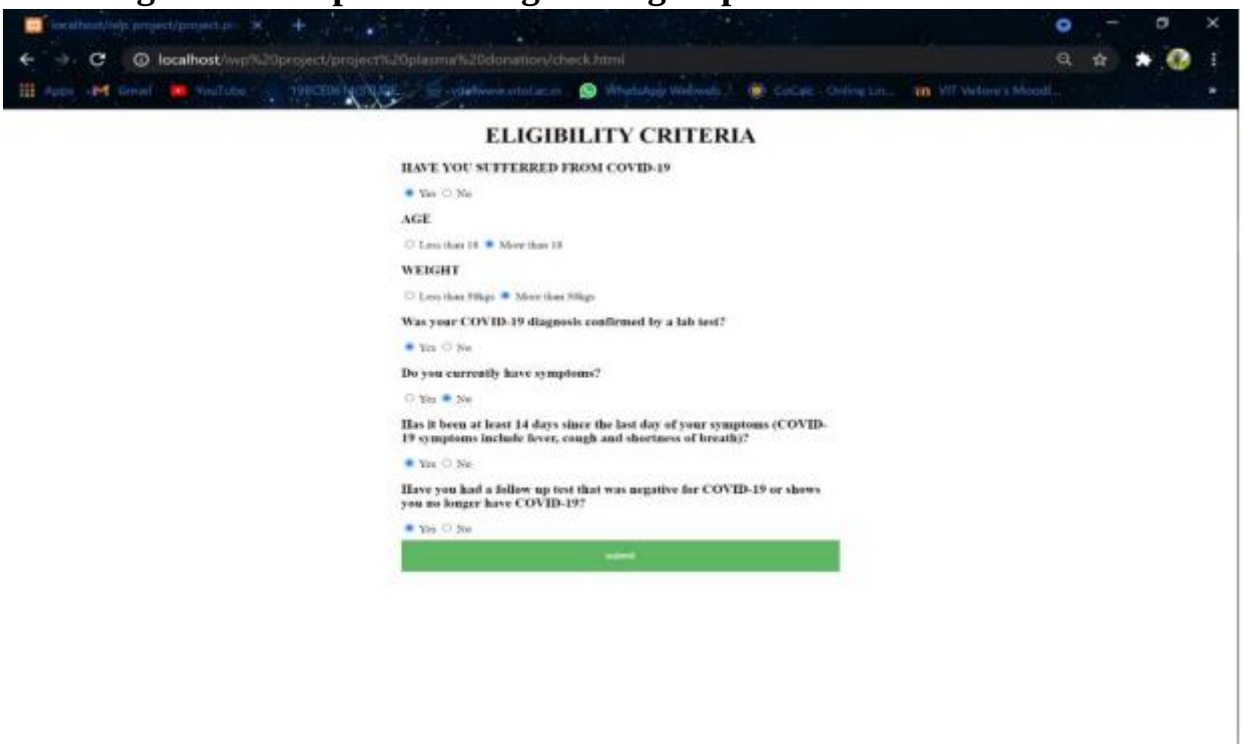
About Us Page:



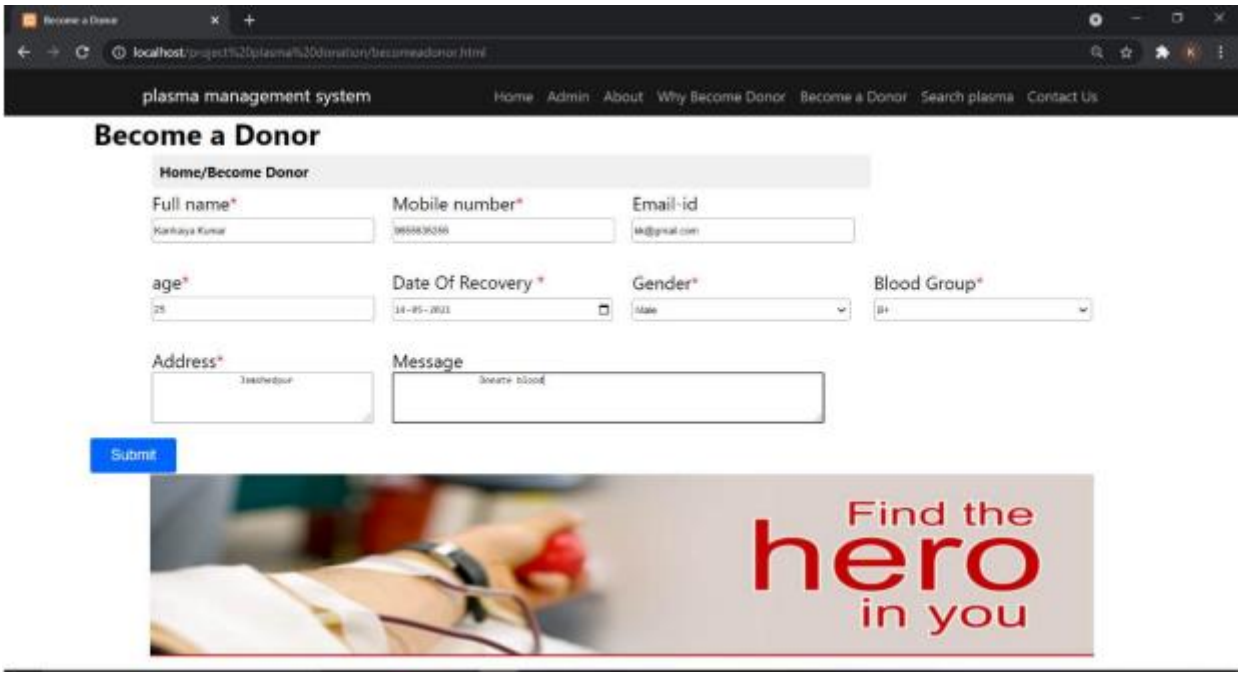
Why Become a Donor page:

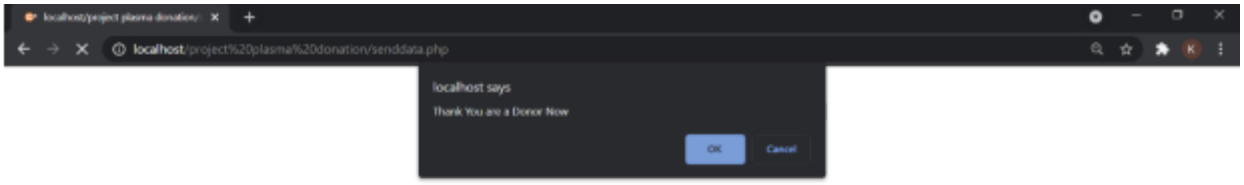


Checking whether a person is eligible to give plasma or not:

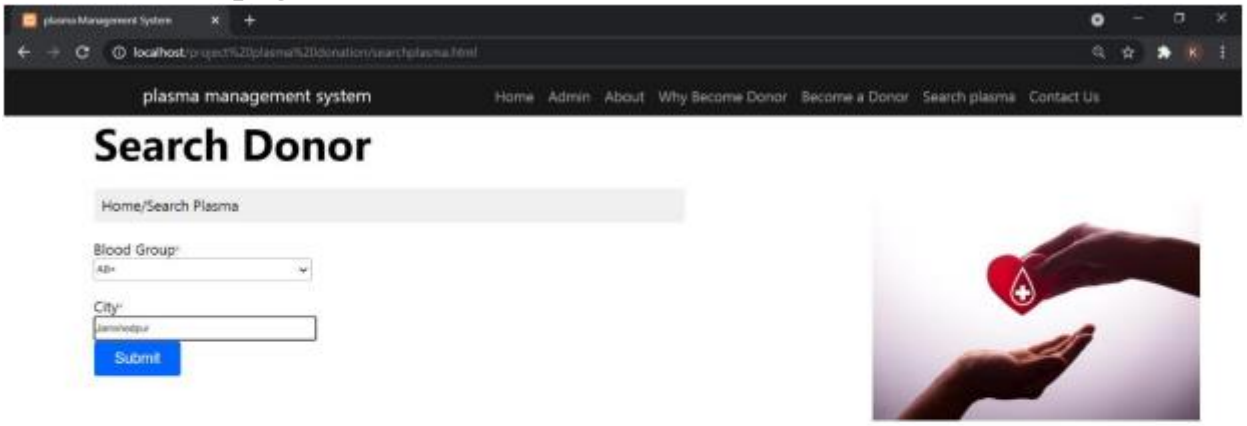


Become a Donor:

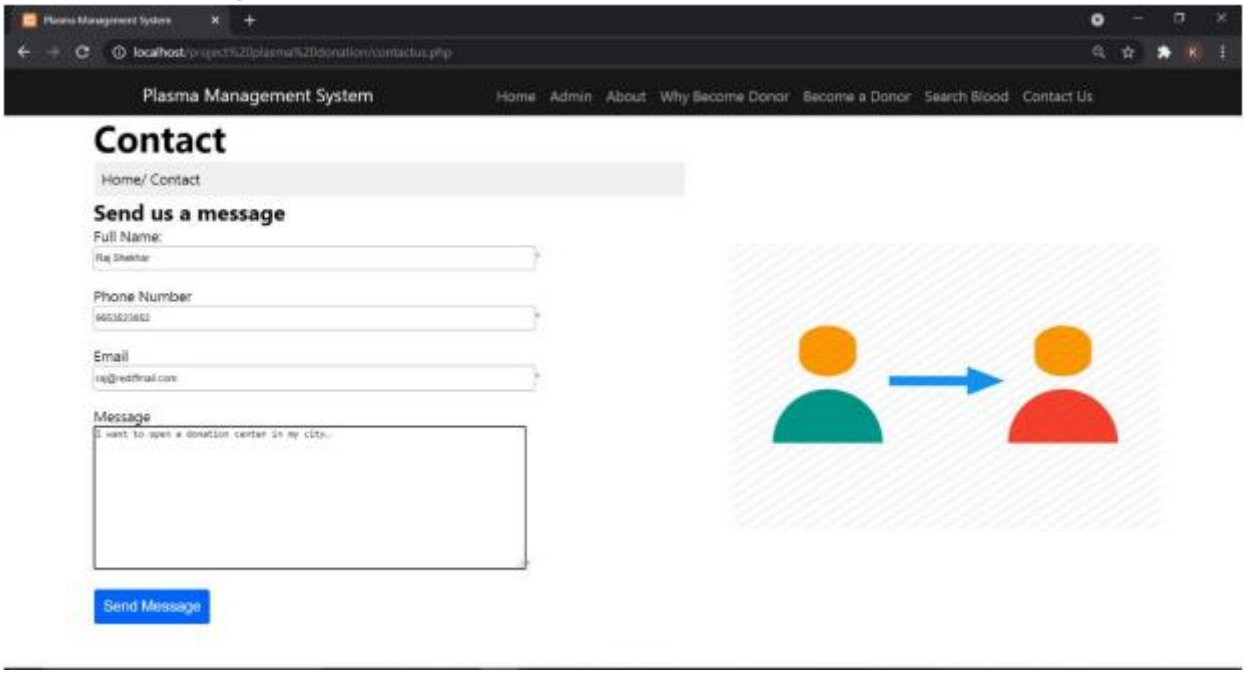


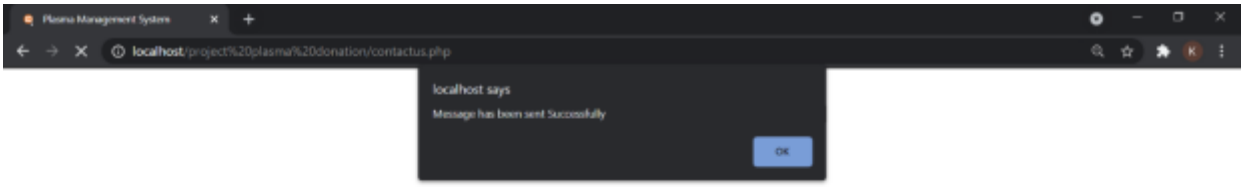


Search Donor page:

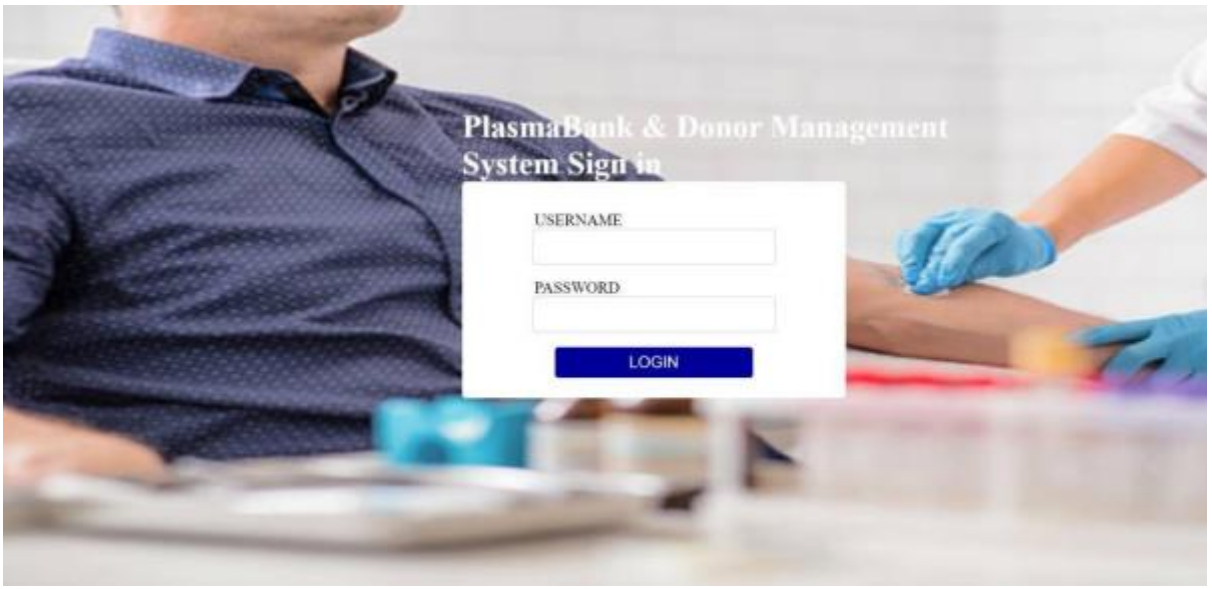


Contact Us Page:

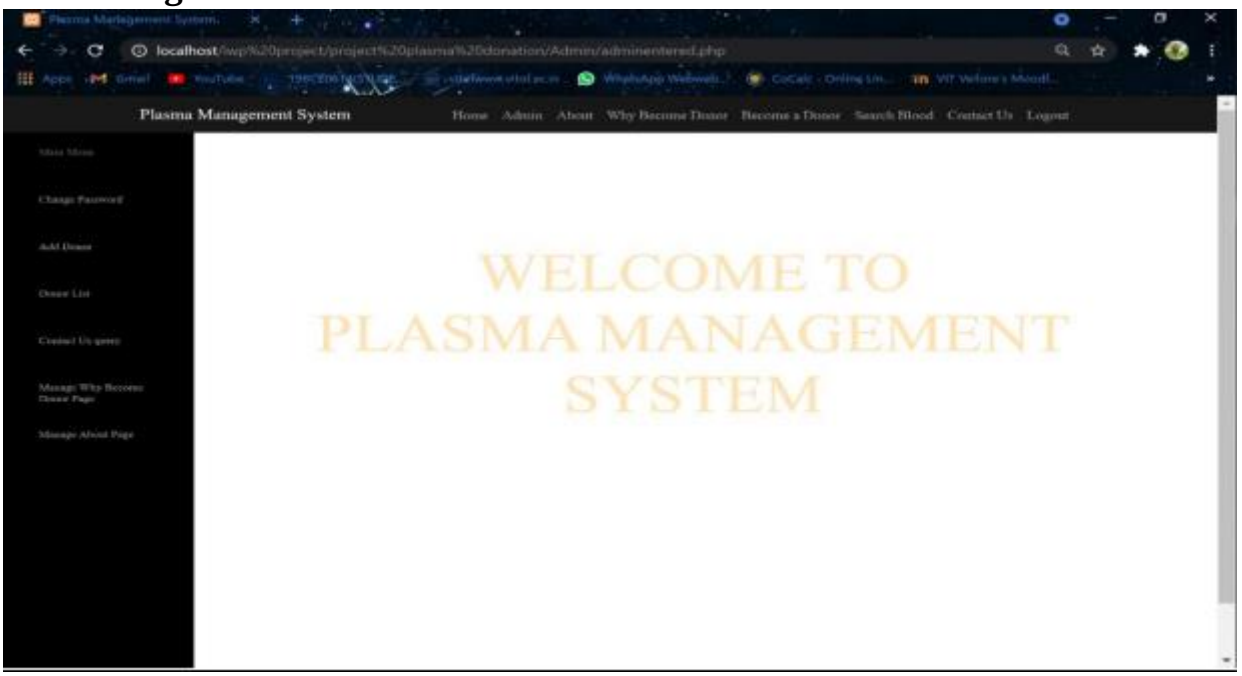




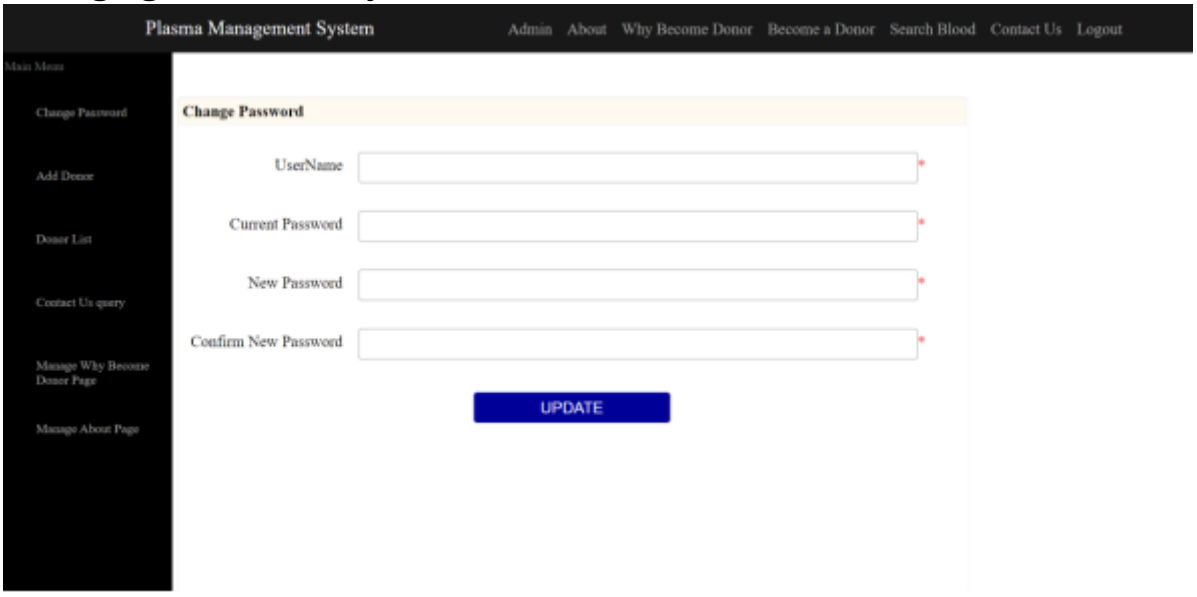
Sign-in to Admin Page:

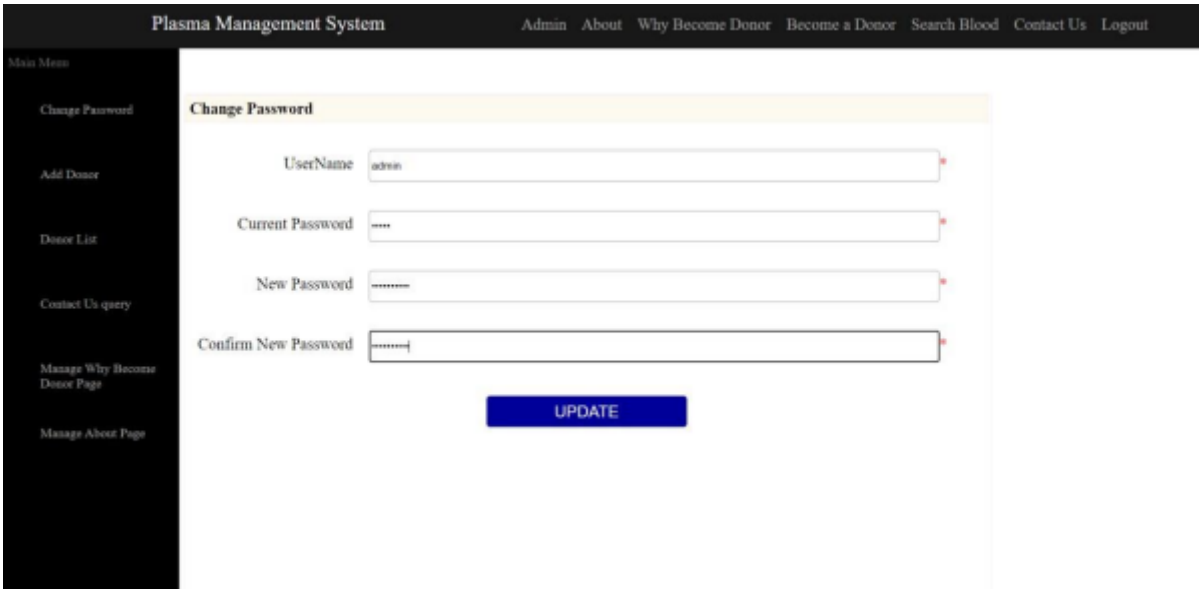


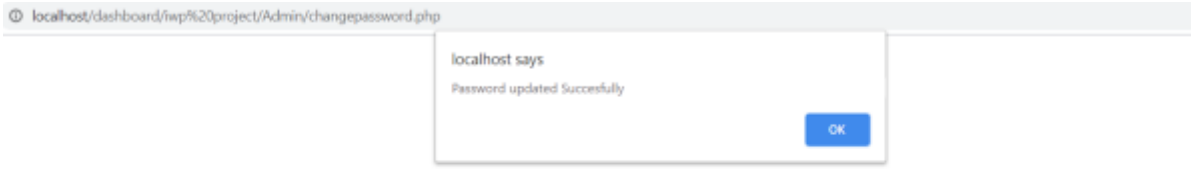
Admin Page:



Changing Passwords by Admin:







Managing why become donor page in admin module:

COCLUSION AND FUTURE ENHANCEMENTS:

With the theoretical inclination of our syllabus it becomes very essential to take the at most advantage of any opportunity of gaining practical experience that comes along. The building blocks of this Major Project "PLASMA Management System" was one of these opportunities. It gave us the requisite practical knowledge to supplement the already taught theoretical concepts thus making us more competent as a computer engineer. The project from a personal point of view also helped us in understanding the following aspects of project development:

• The planning that goes into implementing a project.

• The importance of proper planning and an organized methodology.

• The key element of team spirit and co-ordination in a successful project.

This dissertation work has shown the new working concept of plasma management system . Information and computer technology is very popular in blood banks for its potentials in working efficiency as well as service quality we just provide a new facilities for all plama management as well as for seeker . It plays a vital role in this new concept . The main objective behind this concept is that ,in many places blood bank may not have a good facilities for storing a blood unit in bank for large time period , but with the help of this new concept blood bank have to provide a plasma to any time and any situation to seekerapart from that seeker is also able a call the donor for plasma in a very serious condition of patient .

In Future Enhancements, admin could ask for the proof for recovery from Covid-19 and other valid proofs like Aadhar Card to check the age and other details, so that admin could verify and assign a login.