



**SCHOOL OF INFORMATION TECHNOLOGY AND
ENGINEERING**

MCA - Winter Semester - 2020-21

ITA6003- Internet and Web Programming

PROJECT TITLE: BLOOD BANK MANAGEMENT SYSTEM.

TEAM MEMBERS:

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TECHNOLOGIES:

- **HTML**
- **CSS**
- **JAVASCRIPT**
- **PHP**
- **MYSQL**

LITERATURE SURVEY:

S.NO	JOURNAL NAME	AUTHOR	YEAR	DESCRIPTION / METHODOLOGIES
1.	Benefits of management information system in blood bank.	Kulshreshth a, Vikas, and Sharad Maheshwari .	2012	The paper is basically focussed on the blood bank management information system. It discuss about the beneficiaries of the blood bank management information system. It plays a vital role in the blood bank as blood is the necessity of everyone

2.	A Novel Technique for Online Blood Bank Management	Selvamani, K., and Ashok Kumar Rai	2015	An new algorithm is defined based on the various parameters. The willingness of donor and the closeness of the donor to the place from where the call is coming are also considered for in defining this algorithm. Based on the algorithm the most eligible donor is found out.
3.	An overview of a hierarchy of planning models for regional blood bank management.	Cohen, M. A	1979	Implementation of these hierarchical models in hospital blood banks can reduce outdateding, size of inventories and shortage. In central blood banks, these models can minimize shipment quantities
4.	Blood bank management system	Ekanayaka, E. M. S. S., and C. Wimaladhar ma	2015	This system is totally web based application integrated with a SMS gateway technology. The system was localized for the local user and users interfaced were developed to attract user intention within the range of professionally
5.	Effective blood bank management based on RFID in real time	Adarsh, N	2014	In this paper, we present a RFID based Blood bank management system that aims

	systems.			at reducing the number of transfusion errors. This system continuously tracks the inventory status of the blood bank in real time and has cross-point checks at various locations to ensure correct transfusion.
6.	Management Policies for a Regional Blood Bank	Cohen, M. A	1975	This paper considers management strategies for the administration of a regional blood bank. The techniques of management science and mathematical inventory theory are applied to construct a model, Since each of these policies have an important effect on the number of shortages and outdates, they therefore influence optimal blood bank management. In addition, the question of centralized versus decentralized control is examined.
7.	Because every drop counts”: blood donation during the COVID-19 pandemic."	Sahu, Kamal Kan	2020	COVID-19 is a pandemic crisis that needs a collaborative effort from blood donors, community, blood transfusion services, and administration. A message should be clearly sent out that “To wipe out COVID-19, we bid for social distancing, not social disengagement”
8.	A Blood Bank Management System-Based Internet of Things and Machine Learning Technologies.	Mousa, Ahmed	2020	The main idea of this work is solving problems related to the blood banks from collecting blood from donators to distributing blood bags for interested hospitals. This system is developed in order to enhance the management,

				performance, and the quality of services for the management of blood banks, which will be positively reflected on many patients in hospitals.
9.	"ANALYSIS ON NATION'S BLOOD MANAGEMENT SYSTEM AND WASTAGE USING INTERNET OF THINGS AND DIGITAL TWIN."	Shaikh, Firoj, and Vijay Karwande.	2021	In this paper, we present an architecture prototype of a county-wide Blood Management System using Internet of Things and Digital Twin whereby any hospital or blood bank at the nearest location can search for their desired blood group and can donate to the nearest blood bank or hospital within City/State/Country in case of excess blood supply
10.	ON-LINE BLOOD BANK MANAGEMENT SYSTEM USING ANDROID	Sunita Bhujbal, Kajal Jadhav, Snehal Kalokhe, Varsha Pingale	2017	It's aim is to provide transparency in this field, make the process of obtaining blood from a blood bank corruption free and make the system of blood bank management effective.

CODE:

LOGIN PAGE:

```
<?php

$conn =new mysqli('localhost','root','','blood');

if(isset($_POST['login_user']))

{

$username=$_POST['UserName'];
```

```
$Password=$_POST['Password'];

if($Username!="" && $Password!="")

{

$query="select * from login where Username='$Username' and
Password='$Password'";

$result=mysqli_query($conn,$query);

$count=mysqli_num_rows($result);

if($count>0)

{

header('location:mainblood.php');

}

else

{

echo "<center><mark>!!!INVALID CREDENTIALS!!!</mark></center>";

}

}

}

?>

<!DOCTYPE html>

<html>

<head>

<title>LOGIN</title>

<link rel="stylesheet" href="myystyle.css">

<style>

    #marq{

        font-size: 30px;

        color: red;
```

```

    }

    a{

        text-decoration: none;

        margin-right: -140px;

    }

    a:visited{

        color: red;

    }
</style>

<script>

</script>

</head>

<body>

    <h1 align="center">Welcome to HJ Blood Donor Center</h1>

    <marquee id="marq">!!Donate Blood Save Life!!</marquee>

    <div class="wrap">

        <h2>Login here</h2>

        <form name="Mainblood" method="post" target="_top" action="">

            <input type="text" placeholder=" User Name.." required
name="UserName">

            <input type="password" placeholder="password.." required
name="Password">

            <a href="mainblood.html">

                <input type="submit" name="login_user" value="submit"
onclick="submitClick()">

            <br>

            <br>

```

```

        <center>

            or

        </center>

        <br>

        <center>

            <a href="finalsignup.php">Create an new account</a>

        </center>

    </form>

</div>

</body>

</html>

```

SignUp Page:

```

<?php

$conn =new mysqli('localhost','root','','blood');

if(isset($_POST['register_user']))

{

    $fname=$_POST['firstname'];

    $mail=$_POST['mail'];

    $mobile=$_POST['number'];

    $username=$_POST['username'];

    $password=$_POST['newpass'];

    $confirmpass=$_POST['repass'];

    if($fname!="" && $mail!="" && $mobile!="" && $username!="" &&
    $password!="" && $confirmpass!=""){

```

```
        $stmt=$conn->prepare("insert into
login(Name,Email,Mobilenumber,Username>Password,Confirmpassword)values(?,?,?,?,?,?)");
```

```
        $stmt-
>bind_param("ssssss",$fname,$mail,$mobile,$username,$password,$confirmpass);
```

```
        $stmt->execute();
```

```
        $stmt->close();
```

```
        $conn->close();
```

```
        header("finallogin.php");
```

```
    }
```

```
else
```

```
{
```

```
echo "Fill the data";
```

```
}
```

```
}
```

```
?>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>SIGN UP</title>
```

```
<link rel="stylesheet" href="mystyle.css">
```

```
</head>
```

```
<body>
```

```
    <div class="wrap">
```

```
        <h2>Sign up here</h2>
```



```

        <form method="post" action="">

            <input type="text" placeholder="Name.."
name="firstname">

            <input type="text" placeholder="E-mail.."
name="mail">

            <input type="text" placeholder="Mobile number.."
name="number">

            <input type="text" placeholder=" User Name.."
name="username">

            <input type="password" placeholder="password.."
name="newpass" >

            <span id="new1" style="color: red"></span>

            <input type="password" placeholder="Confirm password.."
name="repass" >

            <span id="new2" style="color: red"></span>

            <a href="finallogin.php">

            <input type="submit" name="register_user" value="submit"
onclick="show()">

            <a href="finallogin.php">

            <input type="button" style="width: 100%;box-sizing: border-
box;padding: 10px 0;margin-top: 30px;outline:
none;border:none;background: #60adde;opacity: 0.7;border-radius:
20px;font-size: 20px;color: green;"id="back" name="go"
value="BACK">

        </form>

    </div>

    <script>

        function show(){

```

```
        alert("Registered Successfully");
    }
</script>
</body>
</html>
```

MainPage:

MainTop:

```
<html>
<style>
    body{
        background: url('hdblood2.png');
        background-repeat:none;
        background-size: cover;
    }
    #top{
        height: 58px;
        margin-top: -5px;
        margin-left: -7px;
    }
    #right{
        color: black;
        float:right;
        margin-top: -45px;
```

```
margin-left: -20px;
```

```
}
```

```
#center{
```

```
color: black;
```

```
text-align: center;
```

```
float:right;
```

```
margin-top: -45px;
```

```
margin-right:90px;
```

```
margin-left:-70px;
```

```
}
```

```
button{
```

```
width: 80px;
```

```
height: 30px;
```

```
margin-top: -20px;
```

```
}
```

```
#center{
```

```
    width: 100px;
```

```
    height: 30px;
```

```
    margin-top: -45px;
```

```
}
```

```
#left{
```

```
    color: black;
```

```
    text-align: center;
```

```
    float:right;
```

```
margin-top: -45px;
margin-right: 200px;
margin-left:-200px;
}
#left1{
    color: black;
    text-align: center;
    float:right;
    margin-top: -45px;
    margin-right: 300px;
    margin-left:-200px;
    width: 100px;
}
#hj{
    width:80px;
    height: 30px;
}
</style>
<body>
<div id="top">
<h1>HJ Blood Center </h1>
<a href="finallogin.php" target="_top">
<button id="right" onclick="sig()">Sign out</button></div>
<a href="contactus.php" target="secondmain">
```

```
<button id="center" align="center">Contact Us</button>
```

```
<a href="bldeligible.php" target="secondmain">
```

```
<button id="left">Eligibility</button>
```

```
<a href="bldcompact.php" target="secondmain">
```

```
<button id="left1">Compatibility</button>
```

```
<script type="text/javascript">
```

```
    function sig(){
```

```
        confirm("Are You Want to Logout");
```

```
    }
```

```
</script>
```

```
</body>
```

```
</html>
```

MainLeft:

```
<html>
```

```
<head>
```

```
<style>
```

```
    body{
```

```
        background: url('hdblood5.png');
```

```
        background-repeat:none;
```

```
        background-size: cover;
```

```
    }
```

```
    #text{
```

```
        color:black;
```

```
    }
```

```
button{
    background-color:#FF69B4;
    color:black;
}
a{
    text-decoration: none;
}
</style>
</head>
<body>
<div id="text">
    <a href="home.php" target="secondmain">
    <button>Home</button><br><br>
    <a href="search.php" target="secondmain">
    <button>Search Donor</button><br><br>
    <a href="adddonor.php" target="secondmain">
    <button>Add Donor</button><br><br>
    <a href="donorlist.php" target="secondmain">
    <button>Donor list</button><br><br>
    <a href="availableblood.php" target="secondmain">
    <button>Available Blood Groups</button><br><br>
    <a href="updateprofile.php" target="secondmain">
    <button>Update profile</button><br><br>
    <a href="updatepass.php" target="secondmain">
```

```
<button>Change password</button><br><br>
</body>
</html>
```

Add Donor:

```
<?php
$conn =new mysqli('localhost','root','','blood');

if(isset($_POST['submit']))
{
    $dname=$_POST['first'];
    $gender=$_POST['radiobutton'];
    $age=$_POST['age'];
    $mail=$_POST['email'];
    $mobilen=$_POST['mobile'];
    $blood=$_POST['select'];
    $pass=$_POST['pass'];
    $repass=$_POST['repass'];

    if($dname!="" && $gender!="" && $age!="" && $mail!="" &&
    $mobilen!="" && $blood!="" && $pass!="" && $repass!=""){

        $stmt=$conn->prepare("insert into
        addonor(Donorname,Gender,Age,Email,MobileNo,Bloodgroup,Passwor
        d,Confirmpass)values(?,?,?,?,?,?,?,?)");

        $stmt-
        >bind_param("sssssss",$dname,$gender,$age,$mail,$mobilen,$blood,$
        pass,$repass);

        $stmt->execute();

        $stmt->close();
```

```
$conn->close();

header("adddonor.php");
}
else
{
echo "Fill the data";
}
}
?>

<!DOCTYPE html>

<html>

<head>

    <title>Forms</title>

    <style>

        span{

            color: red;

        }

        body{

            background: url('hdblood2.png');

            background-repeat:none;

            background-size: cover;

        }

    </style>

</head>
```



```

        <option value="O -">O -</option>

        <option value="A +">A +</option>

        <option value="A -">A -</option>

        <option value="B +">B +</option>

        <option value="B -">B -</option>

        <option value="AB +">AB +</option>

        <option value="AB -">AB -</option>

    </select></td></tr>

    </tr>

    <tr><td><b>Password</b><span
>*</span>&nbsp;&nbsp;&nbsp;&nbsp;<br><input type="password" id="pass"
name="pass" size="25" required></td></tr>

    <tr><td><span id="new1" style="color:
red"></span></td></tr>

    <tr><td><b>Confirm Password<b><span
>*</span>&nbsp;&nbsp;&nbsp;&nbsp;<br><input type="password"
id="repass" name="repass" size="25" required></td></tr>

    <tr><td><span id="new2" style="color:
red"></span></td></tr><br>

    <tr><td><input type="submit" id="submit"
name="submit" value="Submit"
onclick="validate()" size="20"></td></tr>

</div>

</table><br>

</center>

</form>

```

```
<script>

    function validate(){

        var pass=document.getElementById("pass").value

        var repass=document.getElementById("repass").value

        var mobile=document.getElementById("mobile").value

        if(mobile.length<10){

            document.getElementById('new0').innerHTML="Mobile Number
must be in 10 numbers";

            return false;

        }

        if (pass.length<8){

            document.getElementById('new1').innerHTML="password must
be in 8 characters";

            return false;

        }

        if (repass.length<8){

            document.getElementById('new2').innerHTML="password must
be in 8 characters";

            return false;

        }

        if(pass==""){

            document.getElementById('new1').innerHTML="Enter the
password";

            return false;

        }

        if(pass!=repass){
```

```
                alert("Password and Confirm Password Not
Matching")
            }
            else{
                alert("Donor Added Successfully")
            }
        }
    }
</script>
</body>
</html>
```

Search Donor:

```
<?php
$con=mysqli_connect("localhost","root","","blood");
if(!$con){
    echo 'failed to connect to database: '.mysqli_connect_error();
}
else{
}
?>
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="Content-
Type" content="text/html";charset="UTF-8"/>
```

```
<title></title>

<style>

    body{

        background: url('hdblood2.png');

        background-repeat:none;

        background-size: cover;

    }

    table,th,td{

        border: 2px solid black;

        width: 1100px;

        background-color: lightgreen;

    }

    .btn{

        width: 10%;

        height: 5%;

        font-size: 20px;

        padding: 0px;

    }

</style>

</head>

<body>

    <center>

        <h1>Search Donor</h1>

        <div class="container">
```

```

<form action="" method="POST">

    <input type="text" name="id" id="val"class="btn">

    <input type="submit" name="search" id="bt"class="btn"
value="SEARCH">

    <input type="button" name="clear"
class="btn"value="Clear"onclick="clr()">

</form>

<table>

    <tr>

        <th>ID</th>

        <th>Donorname</th>

        <th>Age</th>

        <th>Email</th>

        <th>Mobilenr</th>

        <th>blood</th>

        <th>Street</th>

        <th>City</th>

        <th>State</th>

        <th>Pin</th>

    </tr><br>

<?php

if(isset($_POST['search'])) {

    $id = $_POST['id'];

    $result=mysqli_query($con,"select * from updatedonor
where City='$id'OR State='$id' OR Pin='$id' OR blood='$id'");

```

```

while($row=mysqli_fetch_array($result)){
    ?>
    <tr>
        <td><?php echo $row['id'];?></td>
        <td><?php echo $row['Donorname'];?></td>
        <td><?php echo $row['Age'];?></td>
        <td><?php echo $row['Email'];?></td>
        <td><?php echo $row['Mobilenumber'];?></td>
        <td><?php echo $row['blood'];?></td>
        <td><?php echo $row['Street'];?></td>
        <td><?php echo $row['City'];?></td>
        <td><?php echo $row['State'];?></td>
        <td><?php echo $row['Pin'];?></td>

    </tr>

    <?php
}
}
?>
</table>
</div>

</center>
<script>
    function clr(){

```

```
        document.getElementById('val').value="";
    }
</script>
</body>
</html>

DonorList:
<?php
$con=mysqli_connect("localhost","root","","blood");
if(!$con){
    echo 'failed to connect to database: '.mysqli_connect_error();
}
else{
}
?>
<html>
<head>
    <style>
        body{
            background: url('hdblood2.png');
            background-repeat:none;
            background-size: cover;
        }
    #head{
        background-color: lightblue;
```



```

    }

    table,th,td{

        border: 2px solid black;

        width: 900px;

        text-align: center;

    }

</style>

</head>

<body>

    <h1><center>Donor Details</center></h1>

    <center><table border="1px">

        <tr id="head">

            <th>id</th>

            <th>Donorname</th>

            <th>Age</th>

            <th>Email</th>

            <th>MobileNumber</th>

            <th>BloodGroup</th>

        </tr>

        <?php

$result=mysqli_query($con,"select * from adddonor");

while($row=mysqli_fetch_array($result)){

    ?>

    <tr id="head">

```

```

        <td><?php echo $row['id'];?></td>

        <td><?php echo $row['Donorname'];?></td>

        <td><?php echo $row['Age'];?></td>

        <td><?php echo $row['Email'];?></td>

        <td><?php echo $row['Mobilenumber'];?></td>

        <td><?php echo $row['Bloodgroup'];?></td>

    </tr>

    <?php
    }
    ?>

</table>

</center>

</body>

</html>

```

Available Blood Group:

```

<?php

$con=mysqli_connect("localhost","root","","blood");

if(!$con){

    echo "failed to connect database";

}

else{

}

?>

<!DOCTYPE html>

```

```
<html>
<head>
  <title></title>
  <style>
    #select
    {
      width: 120px;
      height: 27px;
    }
    table,th,td{
      background-color: lightblue;
      width: 500px;
      text-align: center;
    }
    #bloo{
      font-size: 20px;
    }
    p{
      color: red;
      font-size: 20px;
    }
    body{
      background: url('hdblood2.png');
      background-repeat:none;
```

```

        background-size: cover;

    }

</style>

</head>

<body>

<form method="post" action="">

    <center>

        <h1>Available Blood Group</h1>

        <p>!!Before Clicking View button <mark>please select Blood Group
        Again</mark></p>

        <select id="select" name="blood" placeholder="--select--">

            <option value="O +">O +</option>

            <option value="O -">O -</option>

            <option value="A +">A +</option>

            <option value="A -">A -</option>

            <option value="B +">B +</option>

            <option value="B -">B -</option>

            <option value="AB +">AB +</option>

            <option value="AB -">AB -</option>

        </select>

        <input type="submit" name="submit" value="Search"><br><br>

    </form>

    <table border="1px">

        <tr>

            <th>Blood Group</th>

```

<th>No of available blood</th>

<th>Click</th>

</tr>

<?php

if(isset(\$_POST['submit'])){\

\$id = \$_POST['blood'];

\$res="SELECT COUNT(id) AS total from updatedonor
where blood='\$id';

\$result=mysqli_query(\$con,\$res);

\$values=mysqli_fetch_assoc(\$result);

\$num_rows=\$values['total'];

\$blood=\$id;

?>

<tr id="bloo">

<td><?php echo \$id;?></td>

<td><?php echo \$num_rows;?></td>

<td><input type="submit" name="view"
value="View"></td>

</tr>

<?php

}

?>

</table>

<h2>Donor Details</h2>

```

<table border="1px">

    <tr>

        <th>id</th>

        <th>Donorname</th>

        <th>BloodGroup</th>

        <th>MobileNo</th>

        <th>State</th>

    </tr>

<?php
if(isset($_POST['view'])){
    $id=$_POST['blood'];

    $sql="SELECT * from updatedonor WHERE blood='$id'";

    $res=mysqli_query($con,$sql);

    while($row=mysqli_fetch_array($res)){

        ?>

        <tr>

            <td><?php echo $row['id'];?></td>

            <td><?php echo $row['Donorname'];?></td>

            <td><?php echo $row['blood'];?></td>

            <td><?php echo $row['Mobileno'];?></td>

            <td><?php echo $row['State'];?></td>

        </tr>

    <?php

    }
}

```

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

Update Password:

```
<!DOCTYPE html>  
<html>  
<head>  
    <title>Change Password</title>  
    <style type="text/css">  
        body{  
margin:60px 60px ;  
}  
#bgg{  
    background-repeat: no-repeat;  
    background-size: 100% 100%;  
    background-attachment: fixed;  
}  
body{  
    background: url('hdblood2.png');  
    background-repeat:none;  
    background-size: cover;
```

[illegible]


```

function clr(){
    document.getElementById('user').value="";
    document.getElementById('oldpass').value="";
    document.getElementById('newpass').value="";
    document.getElementById('repass').value="";

}

function sav(){
    var newpass=document.getElementById('newpass').value;
    var repass=document.getElementById('repass').value;
    if (newpass.length<8){
        document.getElementById('new1').innerHTML="password must
be in 8 characters";
        return false;
    }
    if (repass.length<8){
        document.getElementById('new2').innerHTML="password must
be in 8 characters";
        return false;
    }
    if(newpass==""){
        document.getElementById('new1').innerHTML="Enter the
password";
        return false;
    }
}

```

```
        if(newpass==repass){
            alert("Password Changed Successfully");
        }
        else{
            alert("Password Not Matching");
        }
    }
</script>
</body>
</html>
<?php
$con=mysqli_connect("localhost","root","","blood");
if(!$con){
    echo "failed to connect";
}
else{
    if(isset($_POST['save'])){
        $username=$_POST['user'];
        $oldpass=$_POST['oldpass'];
        $newpass=$_POST['newpass'];
        $repass=$_POST['repass'];
        $query="update login set
Password='$newpass',Confirmpassword='$repass' where
Username='$username'";
        $result=mysqli_query($con,$query);
```

```

if($result){
    echo "updated Successfully";
}

if($username!="" && $oldpass!="" && $newpass!="" &&
$repass!=""){

    $stmt=$con->prepare("insert into
login(Username,Password,Confirmpassword)values(?,?,?)");

    $stmt->bind_param("sss",$username,$newpass,$repass);

    $stmt->execute();

    $stmt->close();

    $con->close();

}

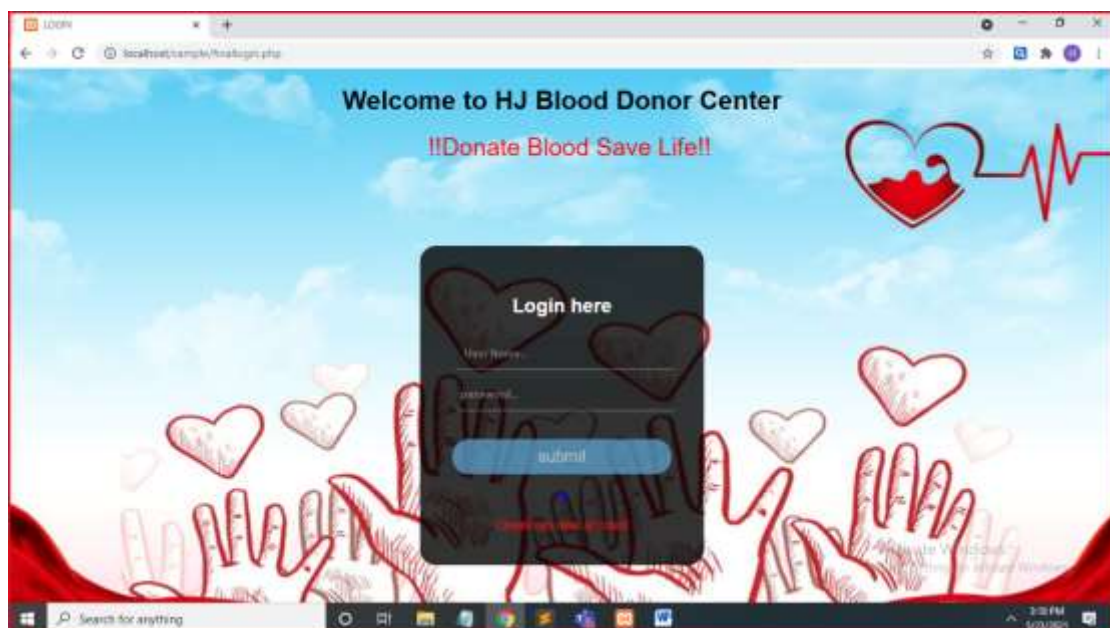
}

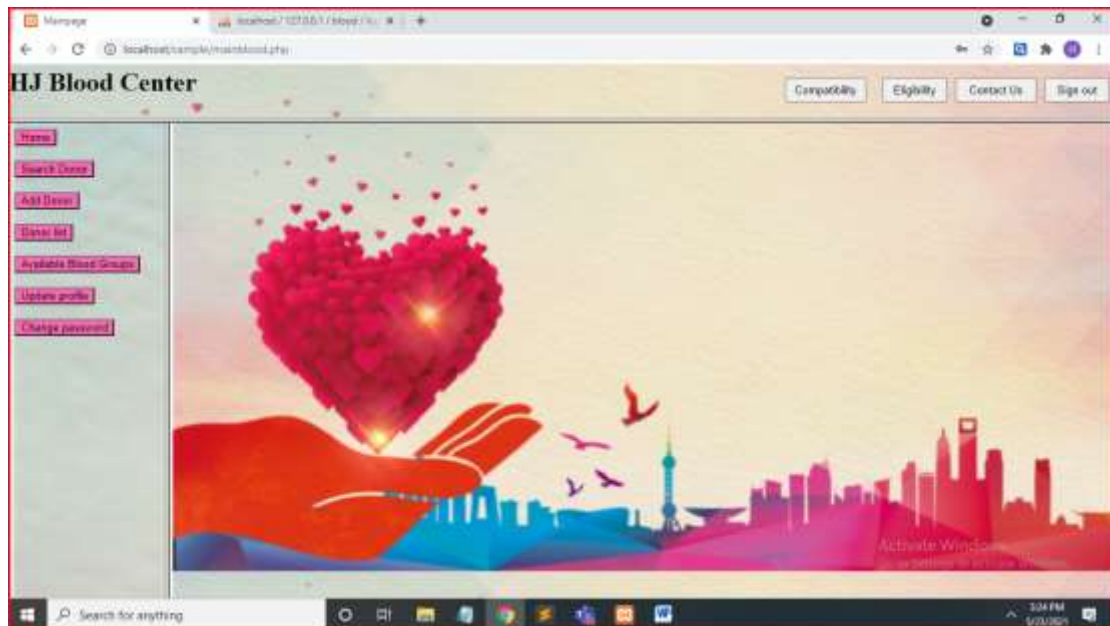
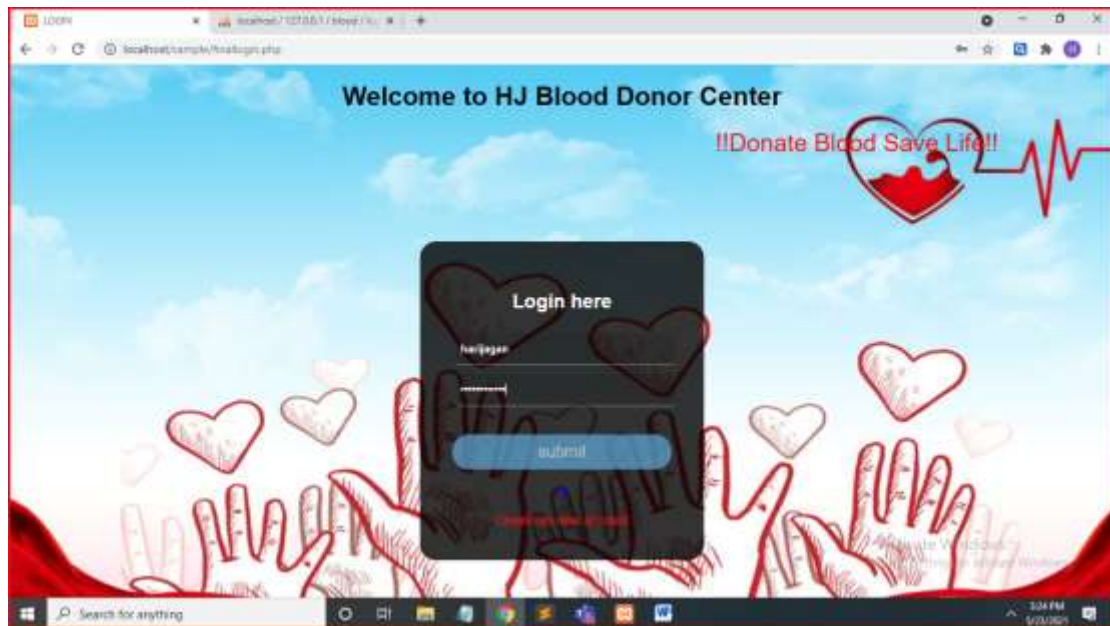
}

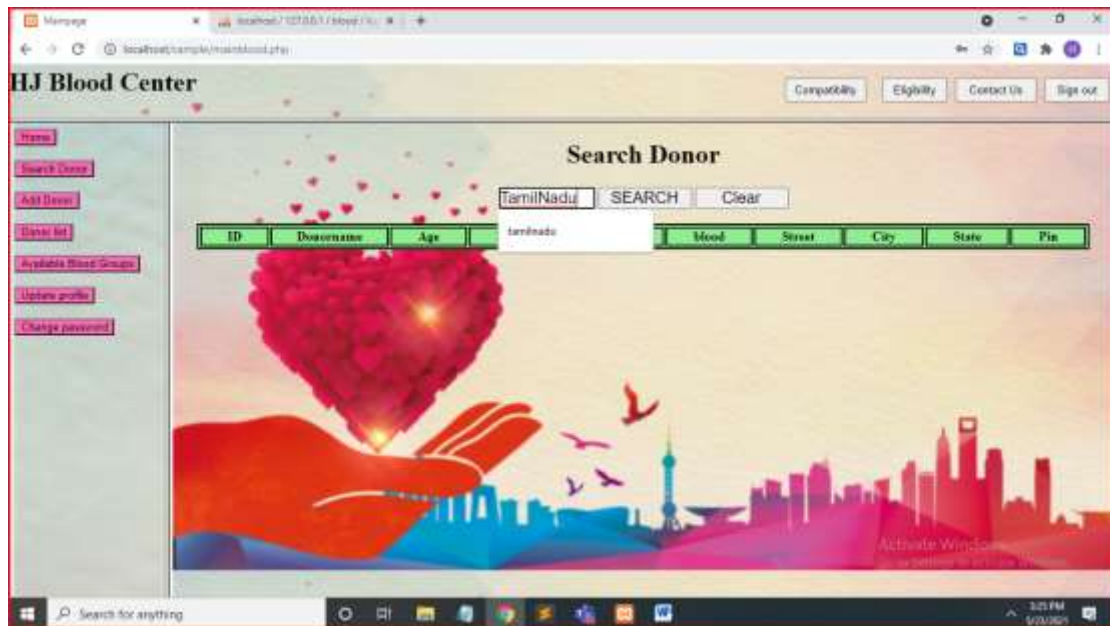
?>

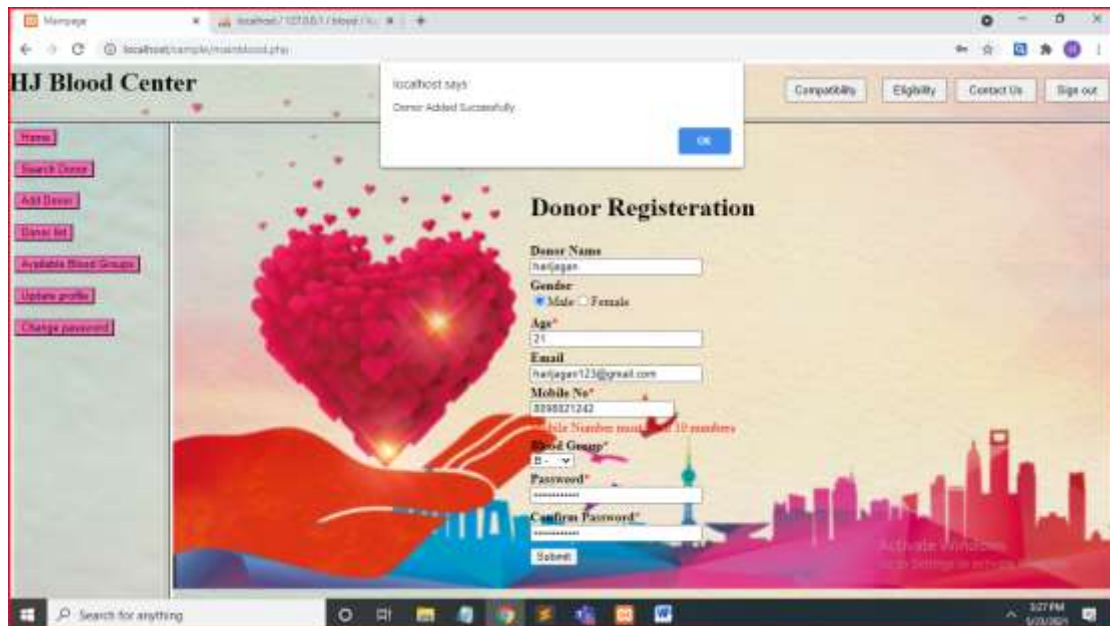
```

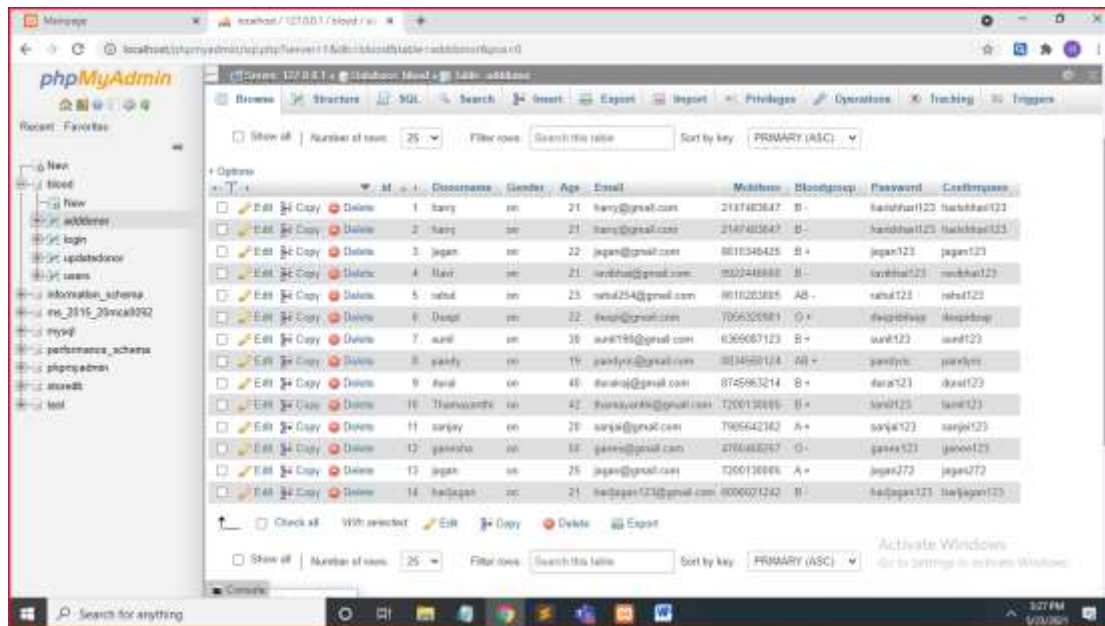
SCREENSHOTS/OUTPUT:

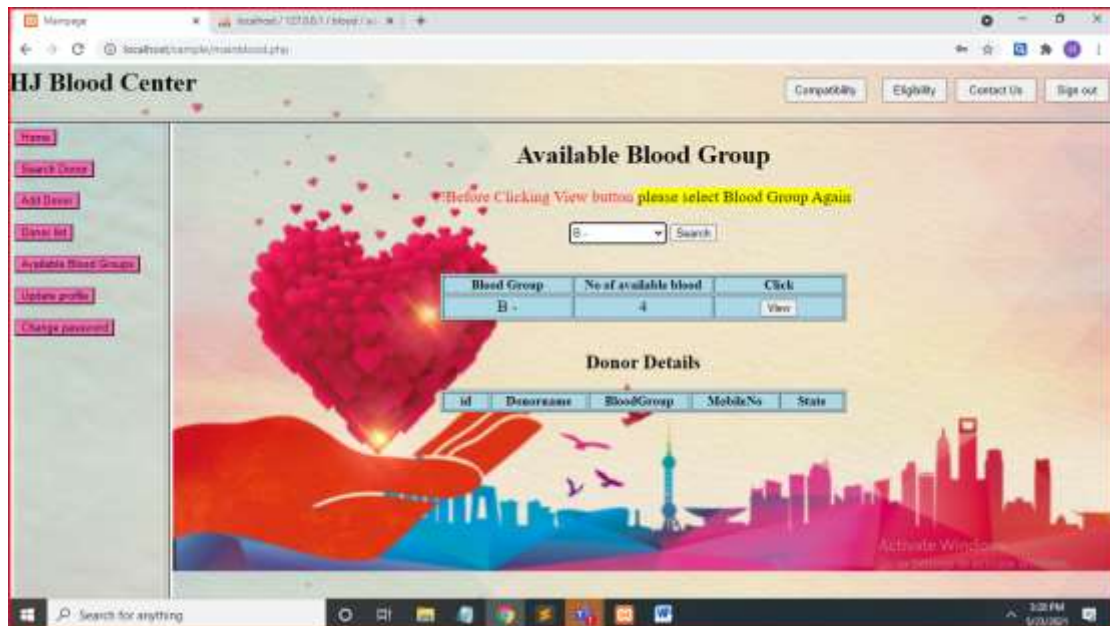












Managepage

localhost/127.0.0.1/blood/aci

localhost/sample/insertblood.php

HJ Blood Center

Compatibility Eligibility Contact Us Sign out

Home

Search Donor

Add Donor

Donor list

Available Blood Groups

Update profile

Change password

Available Blood Group

Before Clicking View button please select Blood Group Again

0+ Search

Blood Group	No of available blood	Click

Donor Details

id	Donorname	BloodGroup	MobileNo	State
1	harish	B -	8998021242	TamilNadu
5	Drepi	B -	7439811132	Karnataka
7	poothi	B -	7439811132	TamilNadu
12	jagan	B -	7200130085	TamilNadu

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Managepage

localhost/127.0.0.1/blood/aci

localhost/sample/insertblood.php

HJ Blood Center

Compatibility Eligibility Contact Us Sign out

Home

Search Donor

Add Donor

Donor list

Available Blood Groups

Update profile

Change password

Update Donor Details

Donor Name
haripagan

Gender
☒ Male ☐ Female

Age*
21

Email
haripagan123@gmail.com

Mobile No*
8998021242

Street Name*
No 1 Sarathi Mansan Street

City*
Vellore

State*
Tamil Nadu

Pincode*
632008

Blood Group*
B -

Submit

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