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**-GIFT OF LIFE-**

**BLOOD DONATION MANAGEMENT SYSTEM**

A project report submitted to the Department of Computer Science in partial completion of the degree, B.Sc. (Honours) Degree in Applied Science.

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*Abstract*

Blood donation is one of the most significant contributions that a person can make towards the society because there is no man-made substitute for blood. In an emergency case, it is very difficult to find required blood immediately if someone needs blood. As a result, needy people end up facing disasters. People have to put advertisements on television or newspapers to find necessary blood which takes time. Therefore, it becomes really tedious for a person to search for blood in case of emergency. It occurs due to the current system which is used by the blood bank. There is no centralized database to keep the donor’s records in blood bank. Hence there are problems with the manual system in managing donors' records.

As a solution, a blood donation management system has been developed to simplify and automate the process of searching for blood. This system allows the probable recipients to make requests for the blood and find the voluntary donors quickly. Further, this system also helps to publicize blood donation programs and provide synchronized and centralized donor database.The languages selected for the development are PHP, CSS and JavaScript which can create an attractive web based system. MySQL is used as the database management system. Furthermore, ActiveXpert SMS Tool-kit Communicator is used to send a text message to blood donors whenever their blood is needed and when someone's life was saved by their blood. The system has the utility to send and receive SMS on PC through a GSM device.

Blood donation management system encourages new donors and retains old donors to donate blood. In the future, this system will help to save lot of people and this can be used by the Blood Bank to manage blood donors and supply blood in an emergency case.

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Chapter 1

**Introduction**

**1.1 Introduction**

To begin with it is important for any country to advance its blood transfusion system to ensure regular, safe and sustainable supply of blood. This is because; anyone can lose blood during a surgery, an accident or due to innate disability to produce blood within the body due diseases such as anaemia. Thus, patients faced with such circumstances may die due to inability to find the blood group which is matching to theirs.

In fact, blood donation is not harmful for an adult and the donations may come from generous donors. Indeed, the human body has the capacity to regenerate the donated blood within few days resulting in minimum threat to the metabolism of the donors. However, an ailing body may demand for blood pertaining to various reasons. For instance, a pregnant mother may need blood during an emergency and she may be driven to death if the correct group of blood is not available at the required time.

Subsequently, the human blood grouping results in four categories, namely, A, B, AB and O. Thus, the blood transmitted to a body externally needs to match against the blood held in the body. This is because; the mismatch of blood may result in the death of a patient as well. However, a donor with O categorization is acknowledged as a universal donor due to the capacity of him/her to donate blood to any group. On the contrary, the people with AB grouping are known as universal receivers due to their ability to receive blood from any group.

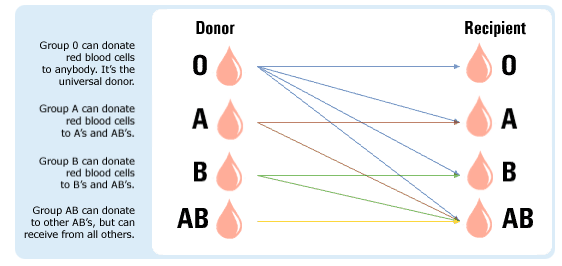


Figure 1.1: Compatible blood donors and recipients

**1.2 Background**

The purpose of the project, BLOOD DONATION MANAGEMENT SYSTEM, is to computerize the finding of blood donor process into a web based system which is user friendly, simple, fast, and cost–effective. For instance, this system will gather the information of blood donors and develop a data base whereby the probable recipients are allowed to find the blood group required swiftly through a donor registration system. In fact, at present in Sri Lanka this process is conducted manually.

In fact, the system attempts to enhance the communication of the blood partners within the community network and whenever there is a requirement the recipients can gain access to the blood group swiftly. Indeed, the system enables SMS facilities to inform the donors to reach the location where the blood is required.

**1.3 Problem Definition**

At present the manual process of locating blood donors necessitate the blood bank to match the required blood group with the donors’ blood group and make voice calls to everyone which consumes significant amount of time and resources. In addition, at present there is no centralized database to maintain the records of the donors. Consequently, some records are misplaced due to various reasons such as disasters and human errors. Further, erroneous details are maintained due to the dual recording of the same donor’s information by staff members.

On the other hand, the previous information of the donors cannot be traced, unless, they opt to bring the records to the hospital at the time of donation. Thus, every time the donor is considered as a first-timer if the donation of blood is made at a new hospital.

Subsequently, the manual process in blood bank has resulted in difficulties to identify the accurate quantity of the blood available in the storage. In particular, there is no system to notify the blood bank about the reduction of blood below the minimum quantity. Moreover, the blood bank does not maintain sufficient automatic records to identify the blood which has expired.

In fact, the blood can be stored only for a limited time period. Hence, the blood bank requires a continuous process to collect blood to maintain the required quantities. In spite of the campaigns being conducted to raise public awareness on the importance of donating blood the blood bank runs short of blood constantly. In addition, it is necessary for the blood bank to maintain blood which are not contaminated with diseases which are transmitted through blood.

Thus, the main problems identified with the present system are:

1. The difficulty to find the required group of blood donors during an emergency
2. Unavailability of the centralized data base to maintain the records of the donors
3. Absence of records of the personal donations made by the donors for themselves

Hence, it is believed that through overcoming the above problems the blood bank may be able to attract new donors whilst retaining the existing ones to ensure a constant stream of blood.

**1.4 Objective of the Study**

The main aim of this study was to develop a web based system for the management of blood donation process to increase its efficiency. Accordingly, the following objectives will be achieved upon completing the study.

1. To allow the probable recipients to make search and match the volunteer donors, and make request for the blood.
2. To provide the blood bank with a platform to facilitate effective promotions pertaining to blood donation programmes thereby attracting more donors.
3. To provide an immediate storage and retrieval of data and information.
4. To facilitate short message services or electronic mails during an emergency to locate the donors of blood
5. To provide a synchronized and centralized donor and blood storage database

Chapter 2

**Methodology**

This chapter attempts to provide an overview of the primary data collection tools that have being deployed within the project along with the selected tools and technologies.

**2.1 Methodology**

To begin with the primary purpose of this system is to maintain a swift process in blood donations to allow the public to fulfil their requirements during an emergency without being delayed. In addition, this system may provide a web-based system for the blood bank or blood collecting centres to utilise as a system to promote blood donations amongst the public. Further, this system intends to maintain records of the donors and recipients.

Accordingly, this web based application allows the registration of individuals whom are keen to donate blood. Subsequently, the general public has the ability to make a request for the blood group with the aid of the application. In fact, this system may act as a single solution for majority of the population during an emergency to find the necessary blood group through a simple application.

Subsequently, one of the waterfall Methodology was followed in designing the web-based system.



Figure 2.1 Waterfall methodology

**2.2 Tools and Technologies**

The language selected for the development is PHP, CSS and Java Script. Accordingly, PHP was used to design the interactive components and user input forms within the system whilst CSS was used to describe the presentation of the web pages including colours, layouts and fonts. In addition, MySQL 5.7.11 was used as the data base management system. Further, ActiveXpert SMS and MMS tool were used to send text messages to donors of blood whenever a requirement arise. Therefore, this system is considered as a system which enables the SMS facility through the website by Windows based web server. Thus, the SMS engine was implemented directly in PHP. Hence, the system will send Short Messages directly from a PHP script.

**2.2.1 System Hardware and Platform**

For the purpose of this project a Personal Computer, Laptop, was used with Intel Core i5-6200U CPU @ 2.30 GHz 2.40 GHz, 8GB of Memory. Further, ActiveXpert SMS tool was installed. HUAWEI Mobile Connect - 3G Modem used as a GSM modem to add SMS capability to system.



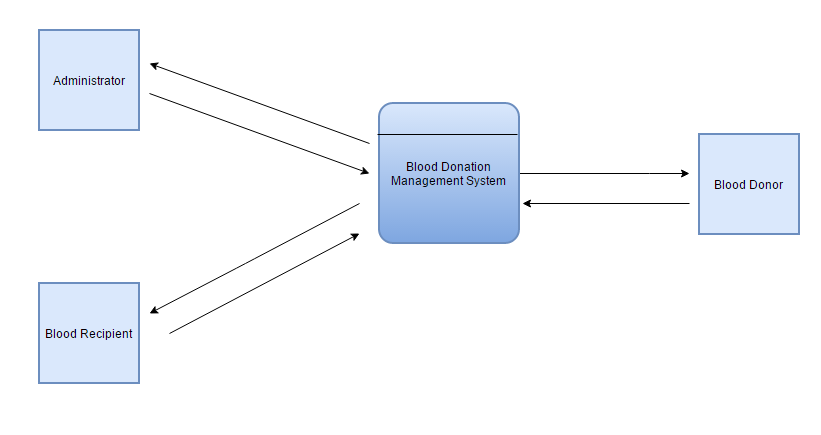
Figure 2.2 connections between modem and PC

**2.3 Analysis**

In this system, recipient (blood need people) can search donors and make request for blood. Any person who fulfils the requirements can register to the system as a donor. First user has to filled the registration form and accepts terms and conditions of the system. Every donor should have to fill their information with National ID and mobile number to register to this site as a Donor. After that they can give their suggestion about this site.

Administrator will maintain all the user profiles and control the user registration process. He can view all the information about donors and recipients. And also administrator have a authority to add, search , update and delete user accounts from system. After the blood donation , donor should have to inform it to Administrator via call or by filling user feedback form. Then he will be updated the last donated date in that particular donor’s profile. And also administrator can view the account information and can also view the suggestion (feedbacks) given by different users of this site.

The context diagram of the system is shown in the below figure 2.3.

 Figure 2.3 Context diagram of the system

0.0

Donor’s mobile no

Search for donor

Maintain donor profiles

Donor’s response

Request for blood

Database design involves the production of a model of the data to be stored in the database.

The database design of the system is presented in Table 1 to Table 5 below.

Table 1: Donor Table

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** |
| nationalID | varchar(10) | Primary Key |
| dName | varchar(100) | Not Null |
| age | Int(2) | Not Null |
| gender | varchar(6) | Not Null |
| city | varcha(100) | Not Null |
| bloodGroup | varchar(3) | Not Null |
| lastDonatedDate | date | Allow Null |
| mobileNo | Varchar(12) | Not Null |
| email | Varchar(150) | Not Null |

Table 2: bloodNeedy\_Table

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** |
| nId | varchar(10) | Primary Key |
| nName | varchar(100) | Not Null |
| needBloodGroup | varchar(3) | Not Null |
| needCity | varchar(30) | Not Null |
| needMobileNo | varcha(12) | Not Null |
| nEmail | varchar(150) | Not Null |
| howManyDays | date | Not Null |
| status | Varchar(12) | Allow Null |

Table 3: AdminLogin\_Table (only one person)

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** |
| adminName | varchar(100) | Not Null |
| password | varchar(8) | Not Null |

Table 4: Campaign\_Table

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** |
| cID | Int(4) | Primary Key |
| cName | varchar(8) | Not Null |
| cImage | Varchar(300) | Not Null |

Table 5: Feedback\_Table

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Data Type** | **Constraints** |
| feedbackID | Int(2) | Primary Key (A.I) |
| fName | varchar(30) | Not Null |
| fSubject | Varchar(50) | Not Null |
| fMessage | Varchar(300) | Not Null |

Chapter 3

**Results and Discussion**

This chapter includes the results that have been obtained for the implemented solution for the blood donation process.

**3.1 Results**

Following figures show the overview of the web-based system and user interfaces that are created using HTML, Java-script, PHP and CSS.

Main Pages and functions in the system.

-Home Page

Once user navigated to the system user should able seen ‘Home Page’ of the system as below. It was designed to encourage user to registered as a blood donor and helped to people who needed to find blood donor for an emergency cases.

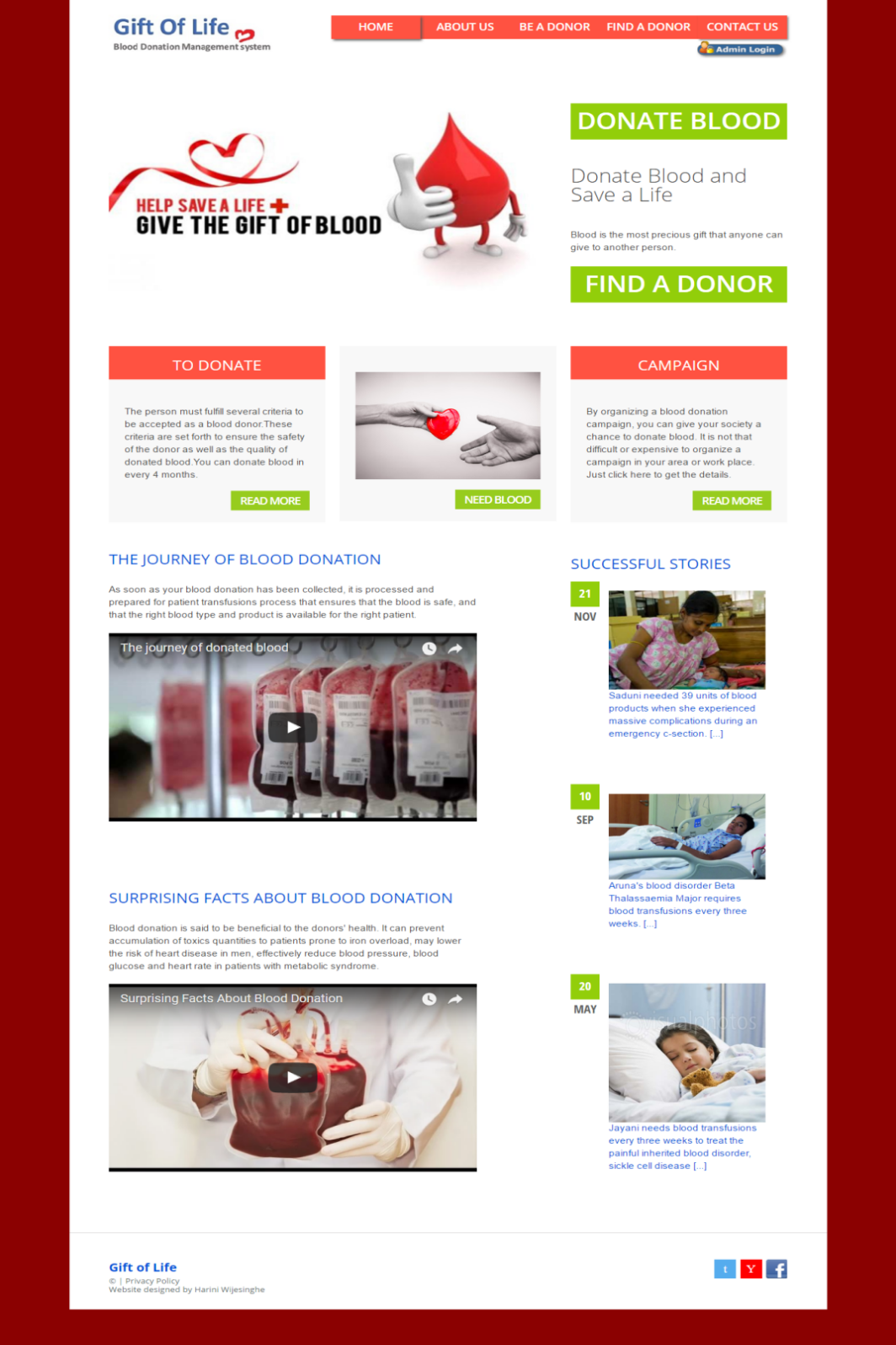


Figure 3.1 Home Page

-Be a Donor:

Within this page new users can be register to this system. Once user filled the registration form and registered to the system their information directly saved in the database. User moved homes, or changed their mind about donating blood they have to informed their new details and decisions to Administrator of the system.



Figure 3.2Be a Donor Page

Request for Donor:

This system allows the probable recipients to make requests for the blood and find the voluntary donors quickly.



Figure 3.3 Requests for Blood Page

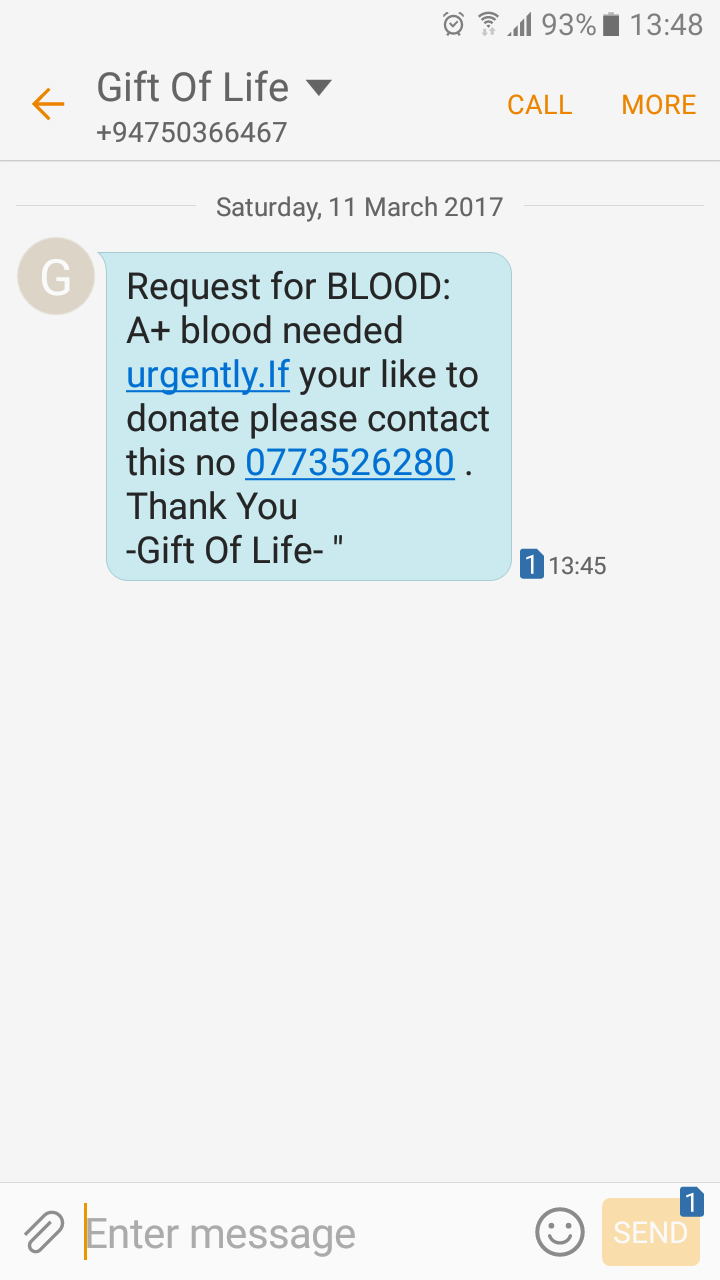
-Find a Donor

By clicking ‘Request Now’ button user should be able to get filter required blood type donors and select suitable donor from result. Then user can send text message to particular donor. ActiveXpert SMS and MMSTool-kit used to send a text massage to blood donors.



Figure 3.4Find a Donor Page

-SMS display on mobile phone

Figure 3.5 SMS on mobile phone

-Camp Details:

To collect blood more, system provides blood campaign details as well as guidelines to held blood camp within this page. Administrator has a facility to upload poster or banners to system for publicize and advertise blood donation programs.

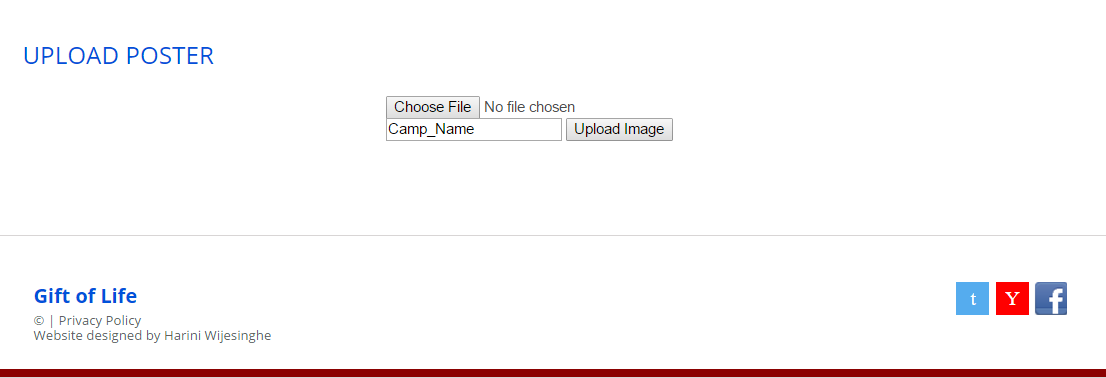


Figure 3.6Campaign Page

-Administrator Login

Administrator can login to system using this panel and do the changes to this system.

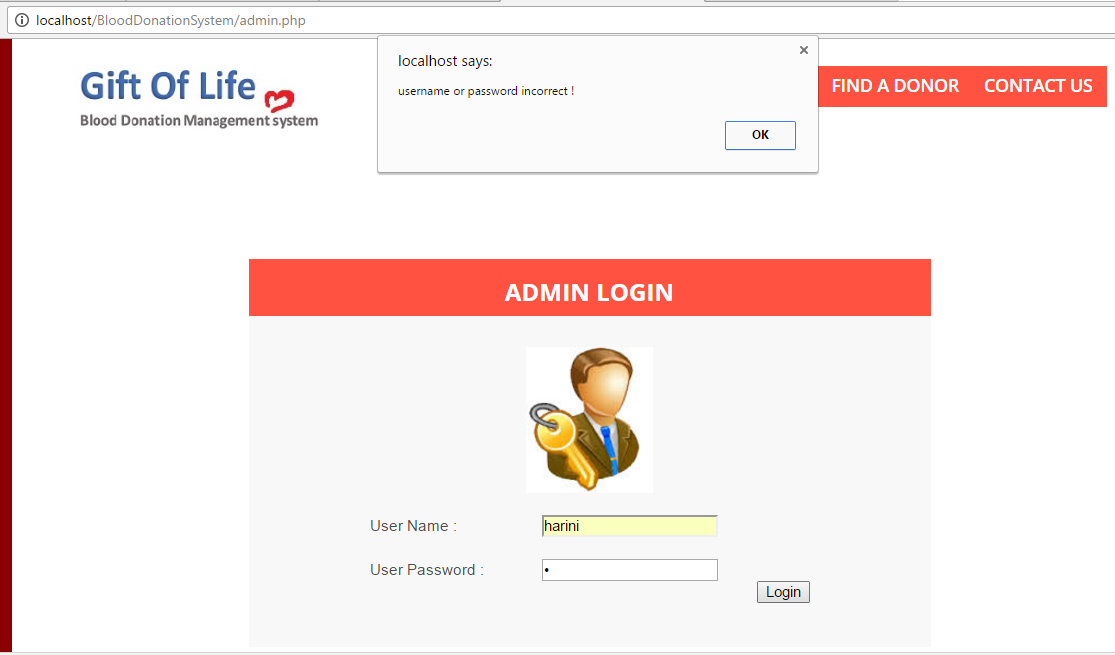


Figure 3.7Admin Login\_Incorrect

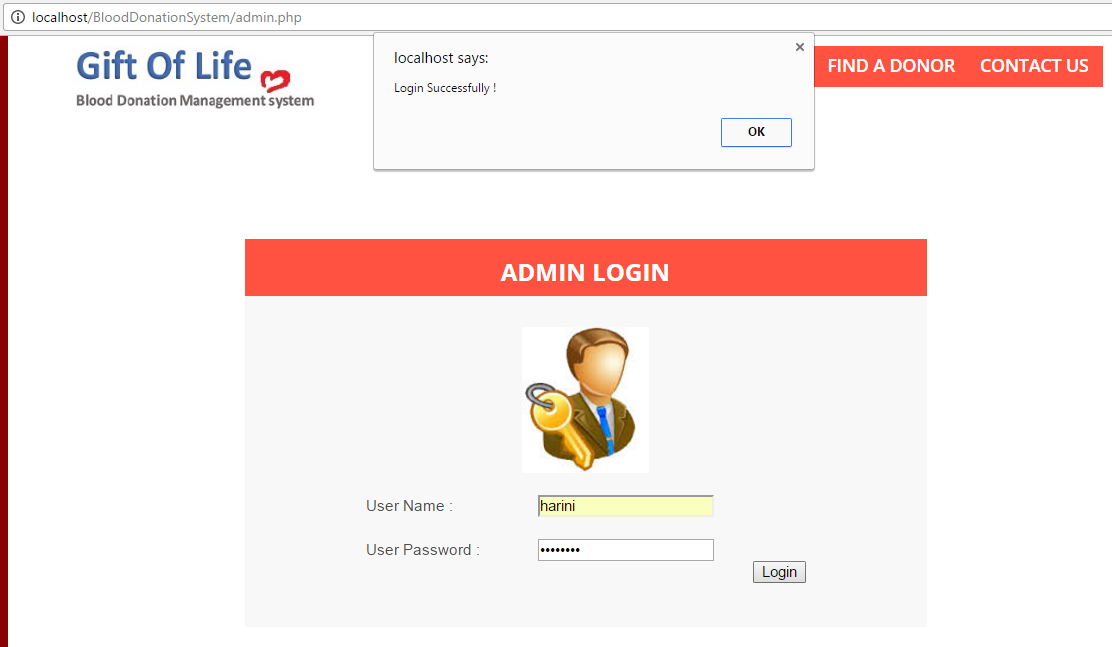


Figure 3.8Admin Login\_successful

-Administrator:

This system will handle by one administrator and he/she will update donors’ accounts and handle blood request response process quickly.

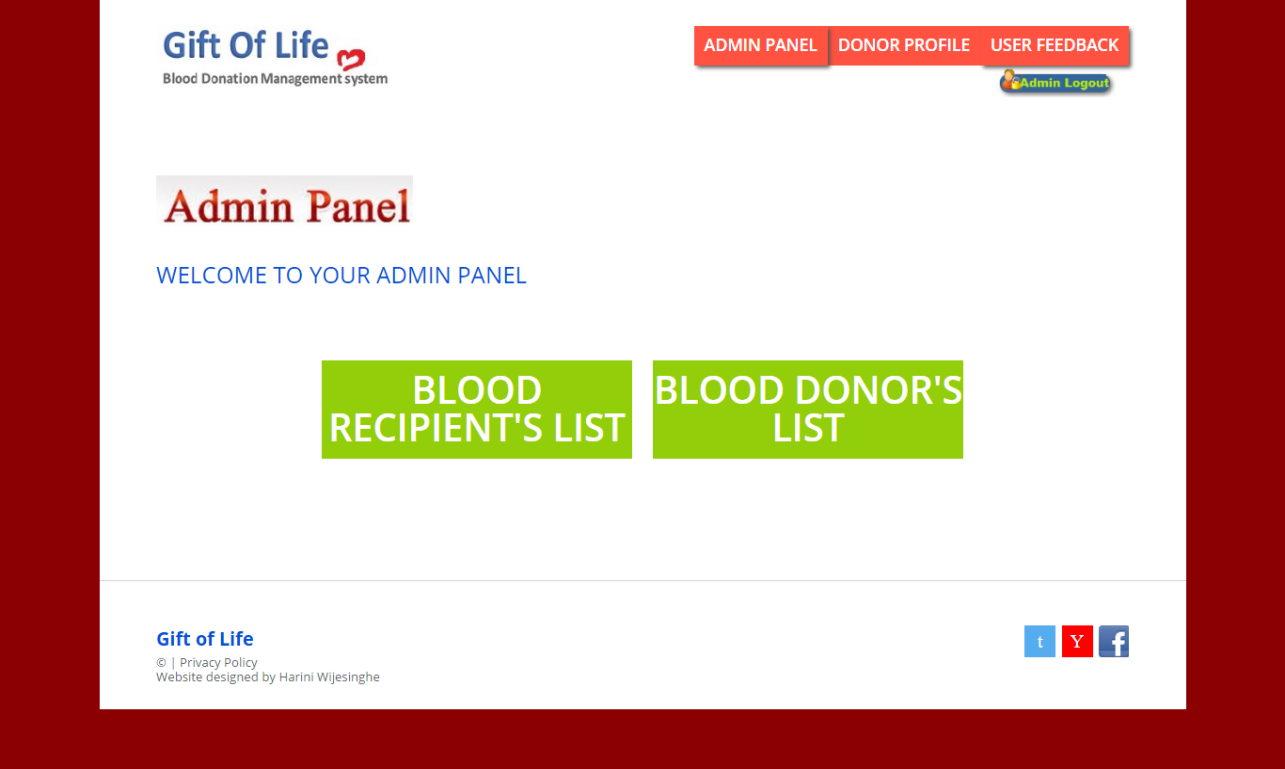


Figure 3.9 Admin Panel Page

- Donor’s Profile:

Administrator can view all the information about donors and recipients. He can add, search, update and delete user profiles with this web page.

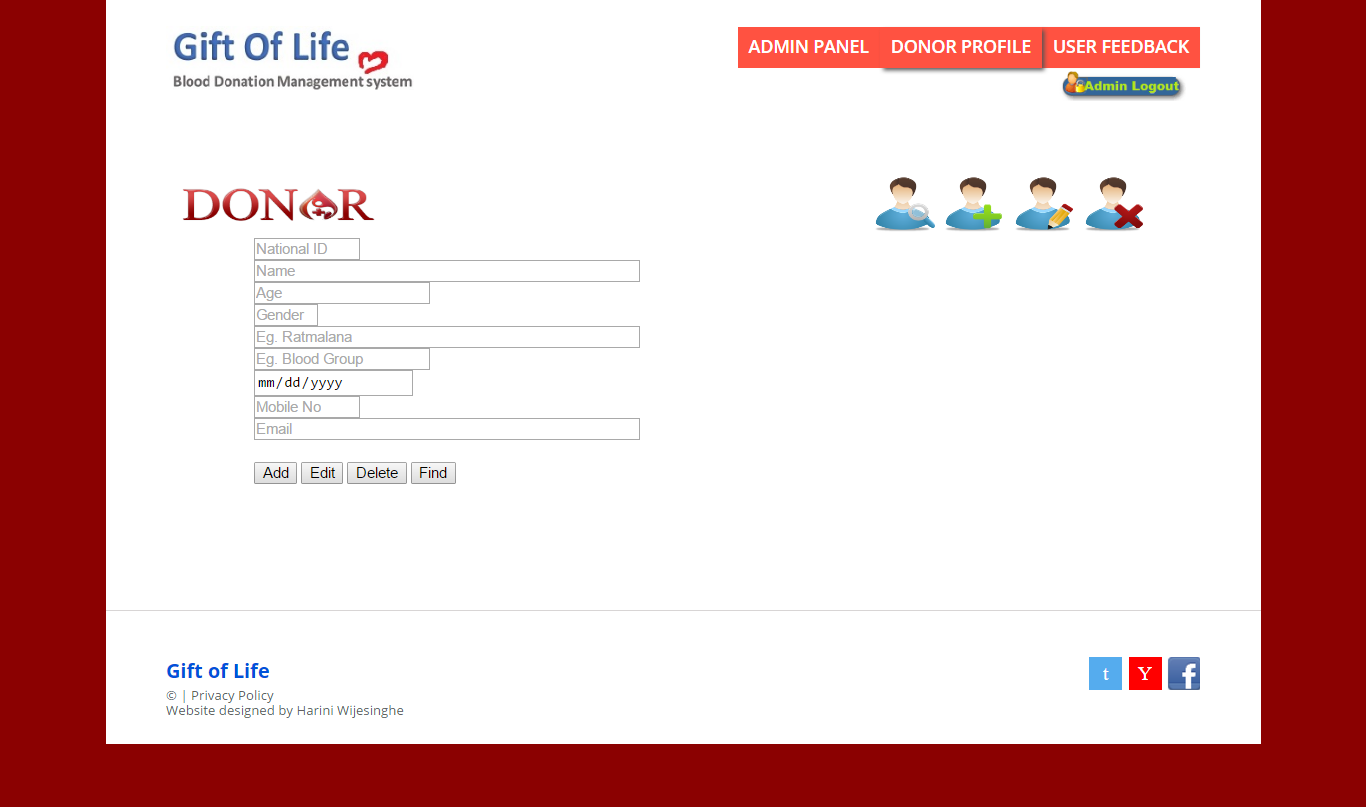


Figure 3.10Donor Profile Page

-About donation:

It will provide the information for donors. They can get an idea about the donations. And it will help user to get idea before register to the system.



Figure 3.11About Us Page

-Contact Us:

Donors and People who have benefited from receiving a blood can send their feedback or experience with this form. It will help to provide more details and encourage donors to register for the system.

Few linked pages there to develop in order to improve the quality of the functionalities.

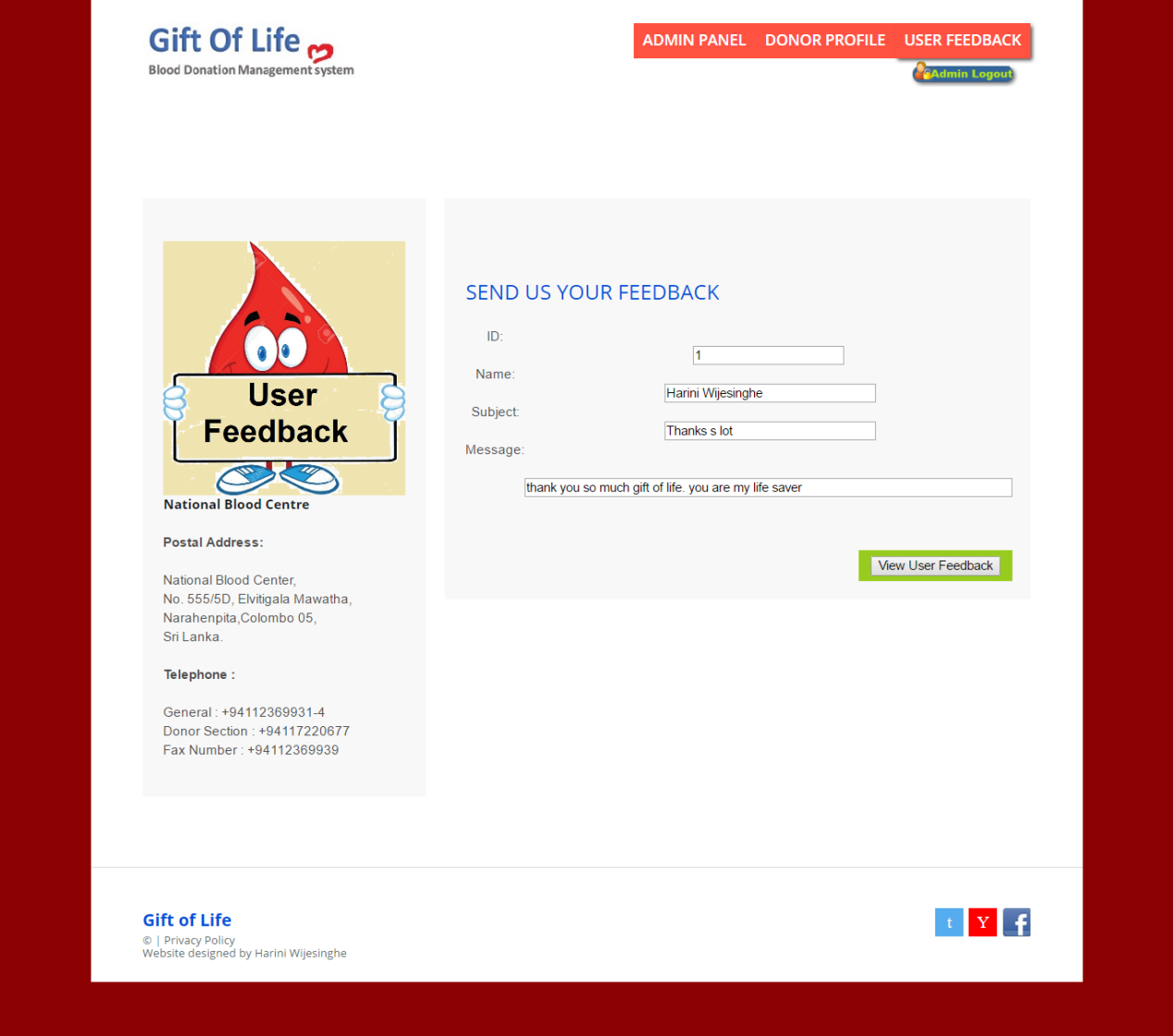
****

Figure 3.12 Contact Us Page

**3.2 Discussion**

PHP is a server scripting language and a powerful tool for making dynamic and interactive Web pages. Hosting for Java is very costly. MySQL was chosen as the DBMS for the application because it’s free, open source, high availability, robust, transactional support, strong data protection and its comprehensive application development support. MySQL workbench was used as a tool because it provides user friendly interface for design, develop and administer a Database with its rich set of features.

**Chapter 4**

**Conclusions and Future Works**

**4.1 Conclusions**

The main goals and objectives of the study was to create a Blood Donation Management System in order to assist in the management of blood donor records and help to find a required blood donor in an emergency case by using modern technology. This system fulfils below requirements.

1. To allow the probable recipients to search and match the voluntary donors and make requests for the blood.

2. To provide a means for the blood bank to publicize and advertise blood donation programs.

1. Send a text massage or email to blood donors whenever their blood is needed

4. To provide synchronized and centralized donor.

**4.2 Future Works**

I was able to implement efficient method to solve main problems in blood donation management system. There are several requirements remaining as future work. Within this system user should be able send message when someone's life is saved by their blood. It will be encourage new donors and retains old donors to donate blood.

And also this system can be enhance as a mobile application and can provide donors an option of change his/her availability.

In the future, this system can be used by the Blood Bank to manage blood donors and supply blood in an emergency case.

**Appendix A**

**Code Listing**

**//admin login**

<? php

$link = mysqli\_connect('localhost','root','','donordatabase')

or die('Could not connect to MySQL: ' .mysqli\_connect\_error());

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

$adminName = @$\_POST['adName'];

$adminPassword = @$\_POST['adPwd'];

$check\_user = " SELECT \* FROM `adminlogin` WHERE `adminName` = '$adminName' AND `password` = '$adminPassword' ";

$run = mysqli\_query( $link, $check\_user);

if (mysqli\_num\_rows($run) > 0){

echo "<SCRIPT LANGUAGE = 'Javascript'>

window.location.href='adminPanel.html'

alert('Login Successfully !')

</SCRIPT>";

}

else

{

echo( "<SCRIPT LANGUAGE = 'Javascript'>

alert('Email or password incorrect !')

</SCRIPT>");

}

}

?>

**//donor registration**

$userID = "";

$userName = "";

$userAge = "";

$userGender = "";

$userCity = "";

$userGroup = "";

$userDate = "";

$userMobile = "";

$userEmail = "";

$userID = mysqli\_real\_escape\_string($link,$\_POST['dnationalID']);

$userName = mysqli\_real\_escape\_string($link,$\_POST['dName']);

$userAge = mysqli\_real\_escape\_string($link,$\_POST['dage']);

$userGender = mysqli\_real\_escape\_string($link,$\_POST['dgender']);

$userCity = mysqli\_real\_escape\_string($link,$\_POST['dcity']);

$userGroup = mysqli\_real\_escape\_string($link,$\_POST['dbloodGroup']);

$userDate = mysqli\_real\_escape\_string($link,$\_POST['dlastDonatedDate']);

$userMobile = mysqli\_real\_escape\_string($link,$\_POST['dmobileNo']);

$userEmail = mysqli\_real\_escape\_string($link,$\_POST['demail']);

**//query to insert data to donor\_table**

$query = "INSERT INTO donor( nationalID, dName, age, gender, city, bloodGroup, lastDonatedDate mobileNo, email) VALUES ('$userID','$userName','$userAge','$userGender','$userCity','$userGroup','$userDate','$userMobile','$userEmail')";

if(mysqli\_query($link , $query))

{

echo( "<SCRIPT LANGUAGE = 'Javascript'>

alert('Congratulations ! You have successfully registered!')

</SCRIPT>");

}

?>

**//donor profile**

$nationalID = "";

$dName ="";

$age = "";

$gender = "";

$city = "";

$bloodGroup = "";

$lastDonatedDate = "";

$mobileNo ="";

$email = "";

try{

$connect = mysqli\_connect($host,$user,$password,$database);

}catch(Exception $ex){

echo 'Error';

}

**//POST values insert to array**

function getPosts()

{

$posts = array();

$posts[0] = $\_POST['nationalID'];

$posts[1] = $\_POST['dName'];

$posts[2] = $\_POST['age'];

$posts[3] = $\_POST['gender'];

$posts[4] = $\_POST['city'];

$posts[5] = $\_POST['bloodGroup'];

$posts[6] = $\_POST['lastDonatedDate'];

$posts[7] = $\_POST['mobileNo'];

$posts[8] = $\_POST['email'];

return $posts;

}

**//search donor profile by national id**

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

{

$data = getPosts();

$query1 = "SELECT \* FROM `donor` WHERE `nationalID` = '$data[0]' ";

$search\_Result = mysqli\_query($connect,$query1);

if($search\_Result)

{

if(mysqli\_num\_rows($search\_Result))

{

while($row = mysqli\_fetch\_array($search\_Result))

{

$nationalID = $row['nationalID'];

$dName = $row['dName'];

$age = $row['age'];

$gender = $row['gender'];

$city = $row['city'];

$bloodGroup = $row['bloodGroup'];

$lastDonatedDate = $row['lastDonatedDate'];

$mobileNo = $row['mobileNo'];

$email = $row['email'];

}

}else{

echo 'No data for this ID';

}

}else{

echo 'Result Error';

}

}

**// insert new user profile from database**

if (isset($\_POST['insert']))

{

$data = getPosts();

$query2 = "INSERT INTO `donor`(`nationalID`,`dName`, `age`, `gender`, `city`, `bloodGroup`, `lastDonatedDate`, `mobileNo`, `email`) VALUES ('$data[0]','$data[1]','$data[2]','$data[3]','$data[4]','$data[5]','$data[6]','$data[7]','$data[8]')";

try{

$insert\_Result = mysqli\_query($connect,$query2);

if($insert\_Result)

{

if(mysqli\_affected\_rows($connect)>0)

{

echo 'Data Inserted';

}else{

echo 'Data Not Inserted';

}

}

}catch(Exception $ex){

echo 'Error Insert'.$ex-> getMessage();

}

}

**//Delete user profile from database**

if (isset($\_POST['delete']))

{

$data = getPosts();

$query3 = "DELETE FROM `donor` WHERE `nationalID`= '$data[0]' ";

try{

$delete\_Result = mysqli\_query($connect,$query3);

if($delete\_Result)

{

if(mysqli\_affected\_rows($connect)>0)

{

echo 'Data Dleteted';

}else{

echo 'Data Not Deleted';

}

}

}

catch(Exception $ex){

echo 'Error'.$ex-> getMessage();

}

}

**//Update user profile from the database**

if (isset($\_POST['update']))

{

$data = getPosts();

$query4 = "UPDATE `donor` SET dName`='$data[1]',`age`='$data[2]',`gender`='$data[3]',`city`='$data[4]',`bloodGroup`='$data[5]',`lastDonatedDate`='$data[6]',`mobileNo`='$data[7]',`email`='$data[8]' WHERE `nationalID`='$data[0]'";

try{

$update\_Result = mysqli\_query($connect,$query4);

if($update\_Result)

{

if(mysqli\_affected\_rows($connect)>0)

{

echo 'Data Updated';

}else{

echo 'Data Not Updated';

}

}

}catch(Exception $ex){

echo 'Error update'.$ex-> getMessage();

}

}

?>

**// find blood** **donor**

<?php

$link = mysqli\_connect('localhost','root','','donordatabase')

or die('Could not connect to MySQL: ' .mysqli\_connect\_error());

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

$needGroup = mysqli\_real\_escape\_string($link,$\_POST['nbloodGroup']);

$sql = "SELECT \* FROM `bloodneedy`";

}

$query = mysqli\_query($link , $sql);

?>

<form action="request.php" method="POST" name="search\_form">

Blood Group Search: <select name="nbloodGroup">

<option value="">Select...</option>

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

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

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

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

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

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

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

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

</select>

<input type="submit" name="requestbar" value="Request List">

</form><br/>

<?php

while ($row = mysqli\_fetch\_assoc($query)){ ?>

<tr>

<td style= 'text-align:left' ><?php echo $row['nName'];?></td>

<td style= 'text-align:left'><?php echo $row['needBloodGroup'];?></td>

<td style= 'text-align:left'><?php echo $row['needCity'];?></td>

<td style= 'text-align:left'><?php echo $row['needyMobileNo'];?></td>

<td style= 'text-align:left'><?php echo $row['nEmail'];?></td>

<td style= 'text-align:left' ><?php echo $row['howManyDays'];?></td>

</tr>

<?php } ?>

</table>

<div class="content">

<div class="clear"></div>

<div class="container\_12"><div class="grid\_1">&nbsp;</div>

<div class="grid\_10">

<img src="images/qw.png" width ="1050"><br/>

<h4>Select Donors: </h4><br/>

<form action="donorResults.php" method="POST" name="search\_form">

<select name="dbloodGroup">

<option value="">Choose Blood Group</option>

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

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

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

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

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

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

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

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

</select>

<input type="date" name="dlastDonatedDate" value="<?php echo date("Y-m-d");?>" size= '10'/>

<input type="submit" name="searchdate" value="Find the Blood Donor" size= '10'/>

</form><br/>

**//donor results filtering from blood-group and date**

<form action="donorResults.php" method="post" name="form">

<?php

$link = mysqli\_connect('localhost','root','','donordatabase')

or die('Could not connect to MySQL: ' .mysqli\_connect\_error());

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

$userDate = mysqli\_real\_escape\_string($link,$\_POST['dlastDonatedDate']);

$userGroup = mysqli\_real\_escape\_string($link,$\_POST['dbloodGroup']);

$sql = "SELECT `dName`,`age`,`gender`,`city`,`bloodGroup`,`mobileNo` FROM donor WHERE `bloodGroup` LIKE '$userGroup' AND `lastDonatedDate` < '$userDate'";

}

$query = mysqli\_query($link , $sql);

echo "<table>";

echo "<tr>";

echo "<td>&nbsp&nbsp<strong>Select</strong>&nbsp&nbsp</td>";

echo "<td>&nbsp&nbsp<strong>Donor\_Name</strong>&nbsp&nbsp</td>";

echo "<td>&nbsp&nbsp<strong>Age</strong>&nbsp&nbsp</td>";

echo "<td>&nbsp&nbsp<strong>Gender</strong>&nbsp&nbsp</td>";

echo "<td>&nbsp&nbsp<strong>City</strong>&nbsp&nbsp</td>";

echo "<td>&nbsp&nbsp<strong>Blood Group</strong>&nbsp&nbsp</td>";

echo "</tr>";

while ($row = mysqli\_fetch\_assoc($query))

{

echo "<tr>";

echo "<td>&nbsp&nbsp ";?><input type="checkbox" name="num[]" value="<?php echo $row["mobileNo"];?>"/><?php echo "&nbsp&nbsp</td>";

echo "<td>&nbsp&nbsp "; echo $row['dName']; echo "&nbsp&nbsp </td>";

echo "<td>&nbsp&nbsp "; echo $row['age']; echo "&nbsp&nbsp </td>";

echo "<td>&nbsp&nbsp "; echo $row['gender']; echo "&nbsp&nbsp </td>";

echo "<td>&nbsp&nbsp "; echo $row['city']; echo "&nbsp&nbsp </td>";

echo "<td>&nbsp&nbsp "; echo $row['bloodGroup']; echo "&nbsp&nbsp </td>";

echo "</tr>";

}

echo"</table>";

?>

<br/><br/>

<input type="submit" name="request" value="Request Now"/></br>

</form>

**// send SMS to blood donor**

<form action="donorResults.php" method="post" name="form">

<?php

if(isset($\_POST["request"]))

{

$box = $\_POST['num'];

while(list($key,$val) = @each($box))

{

echo "<b>Enter Mobile :</b>";?><input type="text" name="text1" size="10" value="<?php echo "$val";?>"/><?php echo "";

}

}

?>

&nbsp&nbsp;

<b>Enter SMS :</b><textarea cols="50" rows="5" name="text2" placeholder="<?php"$userGroup"?>Request for BLOOD: <bloodGroup> blood needed urgently. If you’re like to donate now please contact this no <mobile no> . Thank You -Gift of Life- "></textarea></br><p align="right">\* please add blood group and contact no to message. </p>

<input type="submit" name="submit1" value="Send Message" /></br>

</form>

<?php

if(isset($\_POST["submit1"]))

{

$\_objSmsProtocolGsm = new Com("ActiveXperts.SmsProtocolGsm");

//create the necessary com objects

$objMessage = new Com ("ActiveXperts.SmsMessage");

$objConstants = new Com ("ActiveXperts.SmsConstants");

**//get the submitted information**

$device = "HUAWEI Mobile Connect - 3G Modem #3";

$speed = "Default";

$pincode = "";

$recipient = $\_POST["text1"];

$message = $\_POST["text2"];

$unicode = "";

$\_objSmsProtocolGsm->Logfile = "C:\SMSMMSToolLog.txt";

//Clear the messageobject first

$objMessage->Clear();

$objMessage->Clear();

if( $recipient == "" ) die("No recipient address filled in.");

$objMessage->Recipient = $recipient;

if( $unicode != "" ) $objMessage->Format = $objConstants->asMESSAGEFORMAT\_UNICODE;

$objMessage->Data = $message;

$\_objSmsProtocolGsm->Clear();

$\_objSmsProtocolGsm->Device = $device;

//fill in the devicespeed

if( $speed == "Default" ) $\_objSmsProtocolGsm->DeviceSpeed = 0;

if( $speed != "Default" ) $\_objSmsProtocolGsm->DeviceSpeed = $speed;

if( $pincode != "" ) $\_objSmsProtocolGsm->EnterPin( $pincode );

if( $\_objSmsProtocolGsm->LastError == 0 ){

$\_objSmsProtocolGsm->Send( $objMessage );

}

$LastError = $\_objSmsProtocolGsm->LastError;

$ErrorDescription = $\_objSmsProtocolGsm->GetErrorDescription( $LastError );

}

?>

**Bibliography**

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4. N.J. Jensen and J.T. Crosson MD. An automated system for bedside verification of the match between patient identification and blood unit identification. March 1996