VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAVI – 590014

A DBMS MINI-PROJECT Report
On
"Blood Donation Management System"

A Mini-project report submitted in partial fulfilment of the requirements for the award of the degree of ***Bachelor of Engineering in Computer Science and Engineering*** of Visvesvaraya Technological University, Belgaum.

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DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT

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DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT,

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that the Mini-Project on Database Management System (DBMS) entitled **"Blood Donation Management System"** has been successfully carried out by **CHANDRAKANTH V (1DT19CS402) and K. RUSHIKESH REDDYC(1DT18CS051)** a bonafide students of **Dayananda Sagar Academy Of Technology And Management** in partial fulfilment of the requirements for the award of degree in **Bachelor of Engineering in Computer Science and Engineering** of **Visvesvaraya Technological University, Belgavi** during academic year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of project work for the said degree

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1:

2:

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It gives us immense pleasure to present before you our project titled **"Blood Donation** Management System Using JAVA ". The joy and satisfaction that accompany the successful completion of any task would be incomplete without the mention of those who made it possible. We are glad to express our gratitude towards our prestigious institution **DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT** for providing us with utmost knowledge, encouragement and the maximum facilities in undertaking this project.

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ABSTRACT

Emergency situations, such as accidents, create an immediate and critical need for specific blood types. In addition, advances in medicine have also increased the need of blood for various treatments and surgeries. In short, blood is a saver of all existing lives. So in such emergency cases, it is difficult for hospital staff to collect blood in case of shortage of blood without having appropriate resources. Our system solves this problem. This project is to build a web-based, online blood

for quick access to the required donor. Hence the life at threat can be saved by this optimization technique.

The Blood Donation management system is to create an e-Information about the donor who wants to donate blood. Through this application any person who is interested in donating the blood can register himself. Moreover if any general consumer wants to make request blood online he can also take the help of this site. Admin is the main authority who can do addition, deletion, and modification if requir

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1. INTRODUCTION

The BLOOD BANK MANAGEMENT SYSTEM is great project. this project is designed for successful completion of project on blood bank management system. the basic building aim is to provide blood donation service to the city recently. Blood Bank Management System (BBMS) is a browser based system that is designed to store, process, retrieve and analyze information concerned with the administrative and inventory management within a blood bank. This project aims at maintaining all the information pertaining to blood donors, different blood groups available in each blood bank and help them manage in a better way. Aim is to provide transparency in this field, make the process of obtaining blood from a blood bank hassle free and corruption free and make the system of blood bank management effective.

The *Blood bank system project report* contain information related to blood like

- Blood type
- Date of Donation of blood
- validity of Blood
- Available Blood group

1.1 Project Description :

This project is aimed to develop an online Blood Donation Information. The entire project has been developed keeping in view of the distributed client server computing technology, in mind.

The project has been planned to be having the view of distributed architecture, with centralized storage of the database. The application for the storage of the data has been planned, using the constructs of Oracle and all the user interfaces have been designed using php and JSP (Java Server Pages) technologies.

The database connectivity is planned using the Oracle database connectivity. The standards of security and data protective mechanism have been given a big choice for proper usage.

The application takes care of different modules and their associated reports, which are produced as per the applicable strategies and standards that are put forwarded by the administrative staff.

OBJECTIVE OF THE PROJECT

- Give more secure to the data.
- Speed up the process of finding donors in distributed database.
- Report generation and analysis is very easy.
- We can generate report of users and donors with the help of registration information.
- Better documentation can be maintained.
- People involvement.

1.2 Problem Definition:

Entering the details about the blood groups, members, phone number, addresses etc. And tracking the database is complicated when the details are maintained manually. This makes the maintenance of schedule erroneous.

1.3 Motivation

Now we are aware about blood donation but sometimes people face the shortage of particular blood groups. If there are blood banks, it's easy to get the required group. Our project not only provides blood donors but also assure the availability of blood donors. In our project we collect detailed information of donors through registration forms. This also includes contact information ,mainly we try to inform the need of blood through SMS and the donors can respond to it by making a call or through SMS at proper time, even if the donor is offline

2.REQUIREMENTS

The requirements can be broken down into 2 major categories namely hardware and software requirements. The former specifies the minimal hardware facilities expected in a system in which the project has to be run. The latter specifies the essential software needed to build and run the project.

2.1 Hardware Requirements

The Hardware requirements are very minimal and the program can be run on most of the machines.

Processor	- Intel 486/Pentium processor or better
Processor Speed	- 500 MHz or above
Hard Disk	- 20GB(approx)
RAM	- 64MB or above
Storage Space	- Approx. 2MB

2.2 Software Requirements

Technology Implemented	: Apache Server, MySQL Server
Language Used	: PHP
Database	: MySQL
User Interface Design	: HTML, CSS
Web Browser	: Google Chrome

DATABASE DESIGN

3.1 E-R Diagram

Data Flow Diagram
Diagram2 [Blood Donation process]
Donors/Users Database
DONORS
USERS
LogIn
Blood Donation
Need Bloods
Search Group
Check Interested to donate
Contact Number
Click Info
Future Use
Edit / Update

Donor
d_id :int(11) (PK)
identification_na :varchar(13)
d_name : varchar(150)
d_gender : varchar(6)
d_age : date
d_addr : varchar(50)
d_phone : varchar(10)
blood_type : varchar(3)
type_rh : varchar(2)
email_status :int(1)
Blooddonation
b_id : int(10) (PK)
d_id :Indexint(11) (FK)
h_id : int(10) (FK)
blood_qty : int(2)
blood_status : varchar(20)
donate_date : date(10)
result_date : date(10)
blood_type : varchar(3)
syphilis : tinyint(1)
hepatitis_B_virus : tinyint(1)
human_immunodeficiency_virus : tinyint(1)
hepatitis_C_virus : tinyint(1)
human_T_lymphotropic_virus : tinyint(1)
t_cruzi : tinyint(1)
malaria : tinyint(1)
west_nile_virus : tinyint(1)
cytomegalovirus : tinyint(1)
hepatitis_E_virus : tinyint(1)
email_status : int(1)
type_rh : varchar(1)
Inventory
bloodbag_id : varchar(10)(PK)
b_id : int(11)(FK)
blood_type : varchar(3)
blood_volume : int(3)
blood_reorder : int(3)
blood_expire_date : date
blood_receive_date : date
blood_status :varchar(1)
expire_status : varchar(1)
type_rh :varchar(1)
Withdraw
withdraw_id :int(10)(PK)
h_id : int(10) (FK)
bloodbag_id: varchar(10) (FK)
request_id : int(20) (FK)
withdraw_date : date
withdraw_status : varchar(1)
User
b_id : int(11) (PK)
username : varchar(10)
auth_key : varchar(30)
password_hash : varchar(30)
password_reset_token : varchar(30)
email : varchar(30)
status : smallint(2)
create_at :int(10)
updated_at : int(10)
role : smallint(16)
Request
request_id: int(10) (PK)
h_id : int(10) (FK)
blood_type : varchar(3)
type_rh : varchar(1)
request_amount :int(2)
request_date : date
request_message : text
request_status : varchar(10)
request_email_status : tinyint(1)
request_senddate: date
Hospital
h_id : int(11)(PK)
h_name : varchar(100)
h_addr : varchar(300)
h_phone : int(10)
h_email : varchar(50)

3.2 Database Schema

Database:

Table	Action	Rows	Type	Collation	Size	Overhead
area	Browse Structure Search Insert Empty Drop	364	InnoDB	latin1_swedish_ci	48.0 KiB	-
blood_donor	Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	16.0 KiB	-
city	Browse Structure Search Insert Empty Drop	76	InnoDB	latin1_swedish_ci	16.0 KiB	-
country	Browse Structure Search Insert Empty Drop	11	InnoDB	latin1_swedish_ci	16.0 KiB	-
messages	Browse Structure Search Insert Empty Drop	0	InnoDB	latin1_swedish_ci	16.0 KiB	-
request_blood	Browse Structure Search Insert Empty Drop	0	InnoDB	latin1_swedish_ci	16.0 KiB	-
state	Browse Structure Search Insert Empty Drop	47	InnoDB	latin1_swedish_ci	16.0 KiB	-
7 tables	Sum	499	MyISAM	utf8mb4_0900_ai_ci	144.0 KiB	0 B

Table: Blood_donor

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	DONOR_ID	int			No	None		AUTO_INCREMENT	Change Drop More
2	NAME	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
3	FATHER_NAME	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
4	GENDER	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
5	DOB	date			No	None			Change Drop More
6	BLOOD	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
7	BODY_WEIGHT	int			No	None			Change Drop More
8	EMAIL	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
9	ADDRESS	text	latin1_swedish_ci		No	None			Change Drop More
10	AREA	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
11	CITY	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
12	PINCODE	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
13	STATE	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
14	COUNTRY	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
15	CONTACT_1	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
16	CONTACT_2	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
17	VOLUNTARY	text	latin1_swedish_ci		No	None			Change Drop More
18	VOLUNTARY_GROUP	text	latin1_swedish_ci		No	None			Change Drop More
19	NEW_DONOR	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
20	LAST_D_DATE	date			No	None			Change Drop More
21	DONOR_PIC	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
22	STATUS	int			No	None			Change Drop More

Table: Requestor

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ID	int			No	None		AUTO_INCREMENT	Change Drop More
2	NAME	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
3	GENDER	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
4	BLOOD	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
5	BUNIT	int			No	None			Change Drop More
6	HOSP	text	latin1_swedish_ci		No	None			Change Drop More
7	CITY	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
8	PIN	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
9	DOC	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
10	RDATE	date			No	None			Change Drop More
11	CNAME	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
12	CADDRESS	text	latin1_swedish_ci		No	None			Change Drop More
13	EMAIL	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
14	CON1	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
15	CON2	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
16	REASON	text	latin1_swedish_ci		No	None			Change Drop More
17	PIC	varchar(150)	latin1_swedish_ci		No	None			Change Drop More
18	STATUS	int			No	None			Change Drop More
19	CDATE	date			No	None			Change Drop More

Table: area

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	AREA_ID	int			No	None		AUTO_INCREMENT	Change Drop More
2	CITY_ID	int			No	None			Change Drop More
3	STATE_ID	int			No	None			Change Drop More
4	AREA_NAME	varchar(150)	latin1_swedish_ci		No	None			Change Drop More

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	AREA_ID	357	A	No	

Table: city

Table: country

Table: users

Table: logs

3.3 Database Normalization

3.2.1 First Normal Form

All the Relations are designed in such a way that it has no repeating groups. Hence all tables are in 1st Normal Form.

3.2.2 Second Normal Form

A relation is said to be in second normal form if it is already in first normal form and it has no partial dependency. All the tables in the database are designed in such a way that there is no partial dependency. Hence all tables are in 2nd Normal Form.

3.2.3 Third Normal Form

A relation is said to be in third normal form if it is already in 1st and 2nd Normal Form and has no transitive dependency. All the tables in the database are designed in such a way that there is no transitive dependency. Hence all tables are in 3rd Normal Norm.

3.3 User Interface

The User Interface of the Complaint Management System (Post Complaint Freely) is divided into User Module - For the users registered to post complaints Admin Module – For the admin/owner (users) of the CMS

3.3.1 DONOR REGISTRATION

Donor Registration

3.3. 2 Contact Us

3.3. 3 Admin login page

3.3.4 Home page

3.3.4 REQUESTOR PAGE

3.3.5 SEARCH DONORS PAGE

IMPLEMENTATION

4.1 Donor Registration Module

Process Name	**: Donor Registration**
Process Number	: 1.1
Input	: Donor ID
	: Full name
	: Father name
	: gender
	: dob
	:body
	: weight
	:email
	:Address
Output	: Status Message
Error Condition	: Username Already Exists
	: All Fields are Required

4.2 Admin Login Module

Process Name	**: User Login**
Process Number	: 1.2
Input	: Username : Password
Output	: Status Message
Error Condition	: Invalid Username or Password : All Fields are Required

4.3 Blood Requestor Module

Process Name	**:Requestor Module**
Process Number	: 2.1
Input	: Patient name
	: Gender
	: Blood Group
	: No of Unit of blood
	: Hospital Name and address
	:Doctor Name
	: When required
	: Reason for blood
Output	: Requested successfully
Error Condition	: All Fields are Required

4.4 Donor Search Module

Process Name	**: User Login**
Process Number	: 2.2
	: Search type
Input	: Required Blood group
Output	: : Searched successfully
Error Condition	: All Fields are Required

4.5 Contact Us Module

Process Name	**:Contact Us**
Process Number Input	: 2.3 : Full name :Phone number,Email,Message
Output Error Condition	: Message sent successfully :: All Fields are Required

4.6 Add Country/State/Area Module

Process Name	**:Adding country**
Process Number Output Error Condition	: 2.4 : Country /state/area : Message sent successfully :: All Fields are Required

STORED PROCEDURES :

The stored procedure del implemented in project is for displaying the deleted orders of the users which shows all the information about the order like the order_date, number of items added to the order, the items added to the order etc.

TRIGERS :

The trigger is implemented for inserting all details in the order table to a backup table order_ele which helps in having a backup of all the deleted orders by users

5. SOURCE CODE

Source code to Admin login

```
<!DOCTYPE html>
<?php
session_start();
include("config.php");
?>
<html lang="en">
<head>
        <?php include("head.php");?>
</head>
<body>
<?php include("top_nav.php"); ?>
   <!-- Navigation -->
   <!-- Page Content -->
   <div class="container" style="margin-top:70px;">
      <!-- Page Heading/Breadcrumbs -->
      <div class="row">
         <div class="col-lg-12">
            <h1 class="page-header text-primary"><i class='fa fa-user-md'></i> Admin Login
            </h1>

         </div>
                  <div class="row">
                        <div class="col-md-3"></div>
                        <div class="col-md-6">
                        <?php
                        if(isset($_POST["submit"]))
                              {
        if($_POST["user"]=="admin"&&$_POST["pass"]=="admin")
                              {
                                    $_SESSION['usertype'] ='admin';
                              $_SESSION['username']='admin';
                              header("location:admin_inbox.php");
                              }
                              Else
                              {
                                    echo "<div class='alert alert-
danger'><b>Error</b> User Name and Password Incorrect.</div>";
                              }
```

```
                                        }
                                ?>
                                        <form role="form" action="admin.php" method="post">
                                        <div class="form-group">
                                                <label for="user_name" class="text-
primary">User Name</label>
                                          <input class="form-control" name="user"  id="user"
type="text" required>
                                        </div>
                                        <div class="form-group">
                                                <label for="pass" class="text-
primary">Password</label>
                                              <input class="form-control" id="pass" name="pass"
type="password" value="" required>
                                        </div>
                                        <button class="btn btn-primary pull-right" name="submit"
type="submit"><i class="fa fa-sign-in"></i> Login Here</button>
                                </form>
                                </div>
                                <div class="col-md-3"></div>
                        </div>
        </div>
        <!-- /.row -->
        <!-- Footer -->
       <?php include"footer.php";?>
        </div>
</body>
</html>
```

Configuration.php

```
<?php

$con=new mysqli("localhost","root","","blood_bank");
if($con->connect_error)
{
        echo "Database Connection Failed"
}

?>
```

Index.php

```
<!DOCTYPE html>
<html lang="en">
<?php include"head.php";?>
<body>
<?php include"top_nav.php";?>
   <!-- Header Carousel -->
   <header id="myCarousel" class="carousel slide">
      <!-- Indicators -->
      <ol class="carousel-indicators">
         <li data-target="#myCarousel" data-slide-to="0" class="active"></li>
         <li data-target="#myCarousel" data-slide-to="1"></li>
         <li data-target="#myCarousel" data-slide-to="2"></li>
      </ol>
      <!-- Wrapper for slides -->
      <div class="carousel-inner">
         <div class="item active">
            <div class="fill" style="background-image:url('images/s1.jpg');"></div>
            <div class="carousel-caption">
            </div>
         </div>
         <div class="item">
            <div class="fill" style="background-image:url('images/s2.jpg');"></div>
            <div class="carousel-caption">
            </div>
         </div>
         <div class="item">
            <div class="fill" style="background-image:url('images/s3.jpg');"></div>
            <div class="carousel-caption">
            </div>
         </div>
      </div>
      <!-- Controls -->
      <a class="left carousel-control" href="#myCarousel" data-slide="prev">
         <span class="icon-prev"></span>
      </a>
      <a class="right carousel-control" href="#myCarousel" data-slide="next">
         <span class="icon-next"></span>
      </a>
   </header>
   <!-- Page Content -->
   <div class="container">
```

```
<!-- Marketing Icons Section -->
<div class="row">
   <div class="col-lg-12">
      <h1 class="page-header text-primary">
        Online Blood Bank Management System
      </h1>
   </div>
                  <div class="col-md-4">
      <div class="panel panel-primary">
         <div class="panel-heading">
            <h4><i class="fa fa-fw fa-user"></i> Donor Registration</h4>
         </div>
         <div class="panel-body">
            <p>Have you at anytime witnessed a relative of yours or a close friend
searching frantically for a blood donor, when blood banks say out of stock, the donors in
mind are out of reach and the time keeps ticking?This thought laid our foundation. </p>
            <a href="Donor_reg.php" class="btn btn-primary">View More</a>
         </div>
      </div>
   </div>
                  <div class="col-md-4">
      <div class="panel panel-primary">
         <div class="panel-heading">
            <h4><i class="fa fa-fw fa-medkit"></i> Need Blood</h4>
         </div>
         <div class="panel-body">
            <p>Every 2 seconds someone needs blood. Your blood helps more than one
life at a time. Accident victims, premature babies, patients undergoing major surgeries
require whole blood, where your blood after testing is used directly.  </p>
            <a href="request_blood.php" class="btn btn-primary">View More</a>
         </div>
      </div>
   </div>
                   <div class="col-md-4">
      <div class="panel panel-primary">
         <div class="panel-heading">
            <h4><i class="fa fa-fw fa-search"></i>Search Donor</h4>
         </div>
         <div class="panel-body">
            <p>
```

Some people who have serious injuries they need blood transfusions to replace blood lost during the injury.Regular blood donors ensure that a safe and plentiful supply of blood is available whenever and wherever it is needed.</p>

```
                <a href="Search_Donor.php" class="btn btn-primary">View More</a>
            </div>
        </div>
    </div>
  </div>
  <!-- /.row -->
  <!-- Portfolio Section -->
 <div class="row">
    <div class="col-lg-12">
        <h2 class="page-header  text-primary">Blood Donor Camps</h2>
    </div>
    <div class="col-md-4 col-sm-6">
        <a href="#">
            <img class="img-responsive img-portfolio img-thumbnail img-hover"
src="images/rushi.jpg" alt="">
        </a>
    </div>
    <div class="col-md-4 col-sm-6">
        <a href="#">
            <img class="img-responsive img-portfolio img-thumbnail img-hover"
src="images/p2.jpg" alt="">
        </a>
    </div>
    <div class="col-md-4 col-sm-6">
        <a href="#">
            <img class="img-responsive img-portfolio img-thumbnail img-hover"
src="images/s.jpg" alt="">
        </a>
    </div>
    <div class="col-md-4 col-sm-6">
        <a href="#">
            <img class="img-responsive img-portfolio img-thumbnail img-hover"
src="images/pl.png" alt="">
        </a>
    </div>
    <div class="col-md-4 col-sm-6">
        <a href="#">
            <img class="img-responsive img-portfolio img-thumbnail img-hover"
src="images/r.jpg" alt="">
```

```
            </a>
        </div>
        <div class="col-md-4 col-sm-6">
            <a href="#">
                <img class="img-responsive img-portfolio img-thumbnail img-hover"
src="images/y.jpeg" alt="">
            </a>
        </div>
    </div>
    <!-- /.row -->
    <!-- Features Section -->
    <div class="row">
        <div class="col-lg-12">
            <h2 class="page-header  text-primary">Why we need you to give blood ?</h2>
        </div>
        <div class="col-md-6">
                    <ul>
                            <li>Giving blood saves lives. The blood you give is a lifeline in an
emergency and for people who need long-term treatments.</li>
                            <li>Many people would not be alive today if donors had not
generously given their blood.</li>
                            <li>We need over 6,000 blood donations every day to treat patients
in need across india. Which is why there’s always a need for people to give blood.</li>
                            <li>Each year we need approximately 200,000 new donors, as
some donors can no longer give blood.</li>
                            <li>Most people between the ages of 17-65 are able to give
blood.</li>
                            <li>Around half our current donors are over 45. That's why we
need more young people (over the age of 17) to start giving blood, so we can make sure we
have enough blood in the future.</li>
                    </ul>

        </div>
        <div class="col-md-6">
            <img class="img-responsive" src="images/contact.jpg" alt="">
        </div>
    </div>
    <!-- /.row -->
    <hr>
    <!-- Call to Action Section -->
    <div class="w          <div ell">
class="row">
```

```
            <div class="col-md-8">
                <p>We expect your loyal feedback to improve our standard.For more details
and any subject related queries..</p>
            </div>
            <div class="col-md-4">
                <a class="btn btn-primary btn-block" href="contact.php"><i class="fa fa-
phone"></i> Call to Action</a>
            </div>
          </div>
      </div>
                <div class="modal fade" id="myModal">
  <div class="modal-dialog">
    <div class="modal-content">
                <img src=" width="100%" height="100%" id='ModalImg'>
    </div>
  </div>
</div>
      <hr>
      <!-- Footer -->
                <?php include"footer.php"; ?>
    </div>
    <!-- /.container -->
    <!-- jQuery -->
    <script src="js/jquery.js"></script>
    <!-- Bootstrap Core JavaScript -->
    <script src="js/bootstrap.min.js"></script>
    <!-- Script to Activate the Carousel -->
    <script>
    $('.carousel').carousel({
        interval: 5000 //changes the speed
    })
         $(".img-portfolio").click(function(){
                var a=$(this).attr("src");
                $("#ModalImg").attr("src",a);
      $('#myModal').modal();
    })
    </script>
</body>
</html>
```

6. Summary and Conclusion

With the theoretical inclination of our syllabus it becomes very essential to take the atmost advantage of any opportunity of gaining practical experience that comes along. The building blocks of this Major Project ”BLOOD BANK 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.

The project also provided us the opportunity of interacting with our teachers and to gain from their best experience

Future Recommendation

BLOOD BANK MANAGEMENT is a web based application to built such a way that it should suits for all type of blood banks in **future**.

One important future scope is availability of location based blood bank details and extraction of location based donor’s detail, which is very helpful to the acceptant people. All the time the network facilities cannot be use. This time donor request does not reach in proper time, this can be avoid through adding some message sending procedure this will help to find proper blood donor in time. This will provide availability of blood in time.

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