**ONLINE BLOOD DONATION SYSTEM**

A Dissertation submitted in

partial fulfilment of the requirement for the award of Degree of

**MASTER IN INFORMATION TECHNOLOGY**

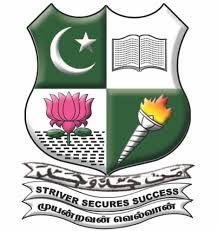
Submitted By

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A project submitted to

**P.G Department of Information Technology.,**

**Mazharul Uloom College**

**AMBUR – 635802**

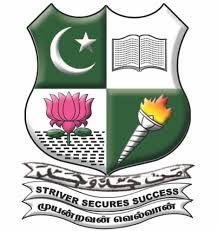
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**CERTIFICATE**

This is to certify that the projects titled ” **ONLINE BLOOD DONATION SYSTEM** ” is Bonafide and work done by

**GOKULA KRISHNAN**

(Register No: 31918P19001)

In partial fulfilment of the requirement for the award of “ **M.Sc in Information Technology**”.

Signature of the Guide Head of the Department

**Prof P. Rizwan Ahmed**,

M.C.A., M.Sc., M.A., M.Phil., Ph.D.

The viva-voce examination of this projects is held on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**External**

1.

2.

1. **ABSTRACT**

This project is aimed to developing an online Blood Donation Information. The entire project has been developed keeping in view of the distributed client server computing technology, in mind. The Blood Donation Agent is to create an e-Information about the donor and organization that are related to donating the blood. Through this application any person who is interested in donating the blood can register himself in the same way if any organization wants to register itself with this site that can also register. 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 required.

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1. **INTRODUCTION**

The aim of this projects is to provide an online blood donation to the receptor despite of being in any location. This system helps receptor and donor to find the exact match or availability of the blood in particular area or region. The admin in this system maintain the high profile of the each blood stock in the region. And the donor addition ,deletion and update can be done in this system. All this project are integrated and interlinked with each other. The system uses an recent Web technology to assure the best quality of the service provided to the donor or receptor.

1. **SYSTEM ANALYSIS**

System Analysis is the requirement for the projects to do a feasible study about the environment , technical analysis, and clarification of the projects. The projects should undergo any one of the model process in software development cycle.

Project clarification is the process of selecting a project request for further study.  When a system development or modification request is made, the first systems activity, the preliminary investigation, begins the activity has three parts: Request clarification, feasibility study and project appraisal.  Many request from employees and users in organization are not clearly stated.

Therefore before any systems investigation can be considered,  the project request must be examined to determine preciously what the originator wants.  This is called Request clarification.

1. **SYSTEM CONFIGURATIONS:**

**Hardware Requirements:**

Processor : Intel dual core processor

RAM : Minimum 2 GB

Monitor : 15” Colour Monitor

Hard disk : Minimum 40 GB

**Software Requirements:**

Operating System : Windows 7, 8, 10

Front-End : JSP Technology

Back-End : MySQL

Scripting : JavaScript

Server : Apache Tomcat 7.0

1. **PROJECT DESCRIPTION**

The Online Blood Management system is online portal for the blood donation where the blood donor can give the blood as per the wish. The system is well established and recorded every details of the information when its necessary.

**Existing System:**

In earlier days, to find the blood donor is difficult and the availability of the blood is known to the hospital reception only. The operation of the blood bank is still maintain manually. The Operation is tedious, time consuming, and space consuming. It create an room error for the data to be entered manually. It include the risk of the documents being lost over the year of the record is difficult. Maintains the stock and the daily transaction without computerization is difficult and poses a challenge.

* Scarcity of the rare blood group.
* Unavailability of blood during emergency.
* Less awareness of among people about blood donation and blood Transfusion.
* Deaths due to the lack of blood during operation.

**Proposed Design:**

Abstraction is used to construct solutions to problem without having to take account of the intricate details of the various component sub problems. Abstraction allows system designer to make step-wise refinement, which at each stage of the design may hide, unnecessary details associated with representation or implementation from the surrounding environment.

   Modularity is concerned with decomposing of main module into well-defined manageable units with well-defined interfaces among the units. This enhances design clarity, which in turn eases implementation, Debugging, Testing, Documenting and Maintenance of the software product. Modularity viewed in this sense is a vital tool in the construction of large software projects.

Verification is fundamental concept in software design. A design is verifiable if it can be demonstrated that the design will result in implementation that satisfies the customer’s requirements.

The Proposed system is sustainable and easy to implement and use. The opportunity of the application provide a wide range of faculty and hospitality.

1. **SYSTEM DESIGN**

**Context level Design:**

**Dataflow Diagram:**

ADMIN

Login

Condition

Contact Us

Blood Camp

Blood Donor

Home

Log out

**Database Design:**

**Table Name:** Donar

|  |  |  |
| --- | --- | --- |
| Name | Type | Size |
| Donor Name | Varchar | 25 |
| Gender | Varchar | 08 |
| Age | Integer | 06 |
| Mobile No | Varchar | 15 |
| Blood Group | Varchar | 08 |
| E-mail | Varchar | 25 |
| Address | Varchar | 100 |

**Table Name:** Camp

|  |  |  |
| --- | --- | --- |
| Name | Type | Size |
| Camp name | Varchar | 40 |
| Camp Date | Date | 10 |
| Units | Varchar | 10 |
| Blood Group | Varchar | 08 |
| City | Varchar | 25 |

1. **SYSTEM TESTING**

**Introduction**

Software testing is an investigation conducted t provide stakeholders with information about the quality of the product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risk of software implementation. Test techniques include the process of executing a process of executing a program or application with the intent of finding software bugs(errors or other defects). It involve the execution of a software component or system to evaluate one or more properties of interest.

**Black Box Testing:**

Black Box Testing is a software testing method which is used to test the software without knowing the internal structure of code or program. The main purpose of the Black Box is to check whether the software is working as per expected in requirement document and whether it meet the user expectation or not. Tester only passes valid as well as invalid input and determine the correct expected outputs. All the test using such methods are calculate based on requirement and specification.

**White Box Testing:**

White Box testing is also known as Code based Testing or Structural Testing. White Box testing is the software testing method in which internal structure is being known to tester who is going to test the application. Testing Based on analysis of the internal structure of the component or system. While unit, integration and system levels of the software testing process, it is usually done at the unit level. It can test path with a unit, path between units during integration, between subsystem during a system-level test.

**System Testing:**

System Testing or end-to-end testing is a completely integrated system to verify that it meets its requirement, For Example, a system test involve the testing a logon interface, then creating and editing an entry , plus sending or printing results, followed by summary processing or deletion of entries, then logoff. In addition to , application testing . It ensure that the program , as well as working expected, does not also destroy or partially corrupt its operating environment or cause other processes within that environment to become inoperative or not consuming or locking up excessive resource and parallel process unarmed by its presence.

**Unit Testing:**

Unit testing is software development process that involves synchronized application of a broad spectrum of defect prevention and detection strategies in order to reduce software development risk , time , cost. It is performed by the software developer or engineer during the construction phase of the development cycle, rather the replace the traditional QA focus and it arguments.

**Overview:**

Function test provide systematic demonstration that function tested are available as specified by the business and technical requirements, System documentation and user manuals. Functional testing is centered on the following items.

Valid Input : identified classes of valid input must be accepted.

Invalid Input: identified classed of invalid must be rejected.

Functions: identified functions must be exercised.

Output: identified classes of application output must be exercised.

System/procedure : Interfacing system or procedure must be invoked.

1. **SOURCE CODE:**

**Index.html:**

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Online Blood Donation System</title>

<style type=*"text/css"*>

\*{

margin:*0px*;

padding:*0px*;

border-box:*box-sizing*;

}

**h1**{

text-transform: *uppercase*;

color:*#ff1a1a*;

}

*.log*

{

text-align: *center*;

width: *280px*;

height:*280px*;

position: *absolute*;

top:*50%*;

left:*50%*;

transform:*translate(10%,-70%)*;

background-color: *#555*;

border-radius:*5px*;

}

*.log* **label**{

color:*White*;

font-size: *18px*;

}

*.log* **input**[type="text"]**,input**[type="password"]{

background: *none*;

width: *80%*;

border:*none*;

color:*white*;

border-bottom:*2px solid white*;

font-size: *16px*;

margin:*6px 10px*;

padding:*10px*;

}

*.log* **input**[type="Submit"]**,input**[type="Reset"]{

background: *none*;

width: *70%*;

color:*white*;

font-size: *16px*;

margin:*8px 10px*;

padding:*10px*;

}

</style>

</head>

<body>

<center><img src=*"img/blood-1.jpg"*><h1> Online Blood Donation login</h1></center>

<div class=*"log"*>

<form action=*"loginprocess.jsp"* method=*"post"*>

<label>Username:</label><input type=*"text"* name=*"uname"*>

<label>Password:</label><input type=*"password"* name=*"pass"*>

<input type=*"submit"* value=*"Login"*><input type=*"reset"* value=*"Cancel"*>

</form>

</div>

</body>

</html>

**Loginprocess.jsp:**

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

<%

String username=request.getParameter("uname");

String pass=request.getParameter("pass");

if(username.equals("Admin") && pass.equals("admin@123"))

{

session.setAttribute("Username", username);

response.sendRedirect("mainpage.jsp");

}else

{

%>

<script type="text/javascript">

window.alert("Invalid Username or Password");

</script><%

}

%>

</body>

</html>

**Mainpage.jsp:**

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<link rel="stylesheet" type="text/css" href="style.css">

<title>Online Blood Donation</title>

</head>

<body>

<div class="header">

<h1>Online Blood Donation System</h1></div>

<div id="mySidenav" class="sidenav">

<a href="#" id="home">Home</a>

<a href="bloodbank.jsp" id="blood">Blood Donar</a>

<a href="donation.jsp" id="donation">Donation</a>

<a href="bloodcamp.jsp" id="camp">Blood Camp</a>

<a href="contactus.jsp" id="contact">Contact Us</a>

</div>

<div class="main">

<img src="img/blood-4.jpg" width=1000 height=400>

</div>

</body>

</html>

**Style.css**

@CHARSET *"ISO-8859-1"*;

*.header*{

text-transform: *uppercase*;

text-align:*center*;

padding:*20px*;

background-color:*#ff1a1a*;

color:*white*;

}

*#mySidenav* **a** {

position: *absolute*;

left: *-80px*;

transition: *0.3s*;

padding: *15px*;

width: *120px*;

text-decoration: *none*;

font-size: *20px*;

color: *white*;

border-radius: *0* *5px* *5px* *0*;

}

*#mySidenav* **a***:hover* {

left: *0*;

}

*#home* {

top: *80px*;

background-color: *#4CAF50*;

}

*#blood* {

top: *140px*;

background-color: *#2196F3*;

}

*#donation* {

top: *200px*;

background-color: *#f44336*;

}

*#camp* {

top:*260px*;

background-color: *#ff413a*;

}

*#contact* {

top: *320px*;

background-color: *#555* ;

}

*.main*{

position:*absolute*;

top:*50%*;

left:*50%*;

transform:*translate(-50%,-40%)*;

}

**Bloodbank.jsp:**

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<%@page import="java.sql.\*" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<link rel="stylesheet" type="text/css" href="style.css">

<title>Online Blood Donation</title>

</head>

<body>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<%@ taglib prefix="sql" uri="http://java.sun.com/jsp/jstl/sql" %>

<div class="header">

<h1>Online Blood Donation System</h1></div>

<div id="mySidenav" class="sidenav">

<a href="mainpage.jsp" id="home">Home</a>

<a href="#" id="blood">Blood Donar</a>

<a href="donation.jsp" id="donation">Donation</a>

<a href="bloodcamp.jsp" id="camp">Blood Camp</a>

<a href="contactus.jsp" id="contact">Contact Us</a>

</div>

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

<sql:setDataSource var="dbsource" driver="com.mysql.jdbc.Driver" url="jdbc:mysql://localhost:3306/bloodbank"

user="root" password="" />

<sql:query dataSource="${dbsource}" var="dbResult">

SELECT \* FROM donar;

</sql:query>

<table width="90%" border="1">

<tr><th>Donar Name:</th>

<th>Gender:</th>

<th>Age:</th>

<th>Mobile No:</th>

<th>Blood Group:</th>

<th>E-mail:</th>

<th>Address:</th></tr>

<c:forEach var="row" items="${dbResult.rows}">

<tr>

<td><c:out value="${row.donorname}"></c:out></td>

<td><c:out value="${row.gender}"></c:out></td>

<td><c:out value="${row.age}"></c:out></td>

<td><c:out value="${row.mobileno}"></c:out></td>

<td><c:out value="${row.bloodgroup}"></c:out></td>

<td><c:out value="${row.email}"></c:out></td>

<td><c:out value="${row.address}"></c:out></td>

</tr>

</c:forEach>

</table>

</center>

</body>

</html>

**Donation.jsp:**

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>Online Blood Donation</title>

<link rel="stylesheet" type="text/css" href="style.css">

</head>

<body>

<div class="header">

<h1>Online Blood Donation System</h1></div>

<div id="mySidenav" class="sidenav">

<a href="mainpage.jsp" id="home">Home</a>

<a href="bloodbank.jsp" id="blood">Blood Donar</a>

<a href="#" id="donation">Donation</a>

<a href="bloodcamp.jsp" id="camp">Blood Camp</a>

<a href="contactus.jsp" id="contact">Contact Us</a>

</div>

<center>

<h3>Donor Registration</h3>

<form action="donationprocess.jsp" method="post">

<table cellpadding="10" cellspacing="10">

<tr>

<td>Donor Name:</td><td><input type="text" name="donor"></td>

</tr>

<tr>

<td>Gender:</td><td><input type="radio" name="gender" value="Male">Male</td><td><input type="radio" name="gender" value="Female">Female</td>

</tr>

<tr>

<td>Age:</td><td><input type="text" name="age"></td>

</tr>

<tr>

<td>Mobile No:</td><td><input type="text" name="mobile"></td>

</tr>

<tr>

<td>Blood Group:</td><td><select name="bloodgroup">

<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></td>

</tr>

<tr>

<td>E-mail:</td><td><input type="text" name="email"></td>

</tr>

<tr>

<td>Address:</td><td><input type="text" name="address"></td>

</tr>

<tr>

<td><input type="submit" value="Register"></td><td><input type="reset" name="Cancel"></td>

</tr>

</table>

</form>

</center>

</body>

</html>

**Donationprocess.jsp:**

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<%@ page import="java.sql.\*" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>Online Blood Donation</title>

</head>

<body>

<%

String donor=request.getParameter("donor");

String gender=request.getParameter("gender");

String Age=request.getParameter("age");

int age=Integer.parseInt(Age);

String Mobile=request.getParameter("mobile");

String Bloodgrp=request.getParameter("bloodgroup");

String email=request.getParameter("email");

String address=request.getParameter("address");

%>

<%

Connection con=null;

int status=0;

try{

Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/bloodbank","root","");

PreparedStatement ps=con.prepareStatement("insert into donar(donorname,gender,age,mobileno,bloodgroup,email,address)values(?,?,?,?,?,?,?)");

ps.setString(1, donor);

ps.setString(2, gender);

ps.setInt(3, age);

ps.setString(4, Mobile);

ps.setString(5, Bloodgrp);

ps.setString(6, email);

ps.setString(7, address);

status=ps.executeUpdate();

if(status>0){

%>

<script type="text/javascript">

window.alert("Record Save Succesfully");

</script>

<jsp:forward page="donation.jsp"></jsp:forward>

<%}

}catch(Exception e){

e.printStackTrace();

}

%>

</body>

</html>

**Bloodcamp.jsp:**

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>Online Blood Donation</title>

<link rel="stylesheet" type="text/css" href="style.css">

</head>

<body>

<div class="header">

<h1>Online Blood Donation System</h1></div>

<div id="mySidenav" class="sidenav">

<a href="mainpage.jsp" id="home">Home</a>

<a href="bloodbank.jsp" id="blood">Blood Donar</a>

<a href="donation.jsp" id="donation">Donation</a>

<a href="#" id="camp">Blood Camp</a>

<a href="contactus.jsp" id="contact">Contact Us</a>

</div>

<center>

<h3>Blood Camps</h3>

<form action="campprocess.jsp" method="post">

<table cellpadding="10" cellspacing="10">

<tr>

<td>Camp Name:</td><td><input type="text" name="camp"></td>

</tr>

<tr>

<td>Camp Date:</td><td><input type="text" name="campdate"></td>

</tr>

<tr>

<td>No of Units:</td><td><input type="text" name="unit"></td>

</tr>

<tr>

<td>Blood Group:</td><td><select name="bloodgroup">

<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></td>

</tr>

<tr>

<td>City</td><td><input type="text" name="city"></td>

</tr>

<td><input type="submit" value=" OK "></td><td><input type="reset" name="Cancel"></td>

</tr>

</table>

</form>

</center>

</body>

</html>

**Campprocess.jsp:**

<%@page import="java.text.SimpleDateFormat,java.sql.\*"%>

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>Online Blood Donation</title>

</head>

<body>

<%

String camp=request.getParameter("camp");

String cdate=request.getParameter("campdate");

//convert to date

SimpleDateFormat sp=new SimpleDateFormat("dd/MM/yyyy");

java.util.Date dt=sp.parse(cdate);

java.sql.Date dt1= new java.sql.Date(dt.getTime());

String units=request.getParameter("unit");

String Bloodgrp=request.getParameter("bloodgroup");

String city=request.getParameter("city");

int status=0;

Connection con =null;

try{

Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/bloodbank","root","");

PreparedStatement ps=con.prepareStatement("insert into camp(campname,campdate,units,bloodgroup,city)values(?,?,?,?,?)");

ps.setString(1, camp);

ps.setDate(2, dt1);

ps.setString(3, units);

ps.setString(4, Bloodgrp);

ps.setString(5, city);

status=ps.executeUpdate();

if(status>0){

%>

<script type="text/javascript">

window.alert("Record Save Succesfully");

</script>

<jsp:forward page="bloodcamp.jsp"></jsp:forward>

<%}

}catch(Exception e){

e.printStackTrace();

}

%>

</body>

</html>

**Contact us.jsp:**

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>Online Blood Donation</title>

<link rel="stylesheet" type="text/css" href="style.css">

</head>

<body>

<div class="header">

<h1>Online Blood Donation System</h1></div>

<div id="mySidenav" class="sidenav">

<a href="mainpage.jsp" id="home">Home</a>

<a href="bloodbank.jsp" id="blood">Blood Donar</a>

<a href="donation.jsp" id="donation">Donation</a>

<a href="bloodcamp.jsp" id="camp">Blood Camp</a>

<a href="#" id="contact">Contact Us</a>

</div>

<center><h3> Contact Us</h3>

<img src="img/blood-3.jpg" height=600px;>

<p>The software system is an online blood donation management system that helps in managing various blood bank operations effectively.

The project consists of a central repository containing various blood deposits available along with associated details.

These details include blood type, storage area and date of storage. These details help in maintaining and monitoring the blood deposits.

The project is an online system that allows to check whether required blood deposits of a particular group are available in the blood bank.

Moreover the system also has added features such as patient name and contacts, blood booking and even need for certain blood group is posted on the website to find available donors for a blood emergency.

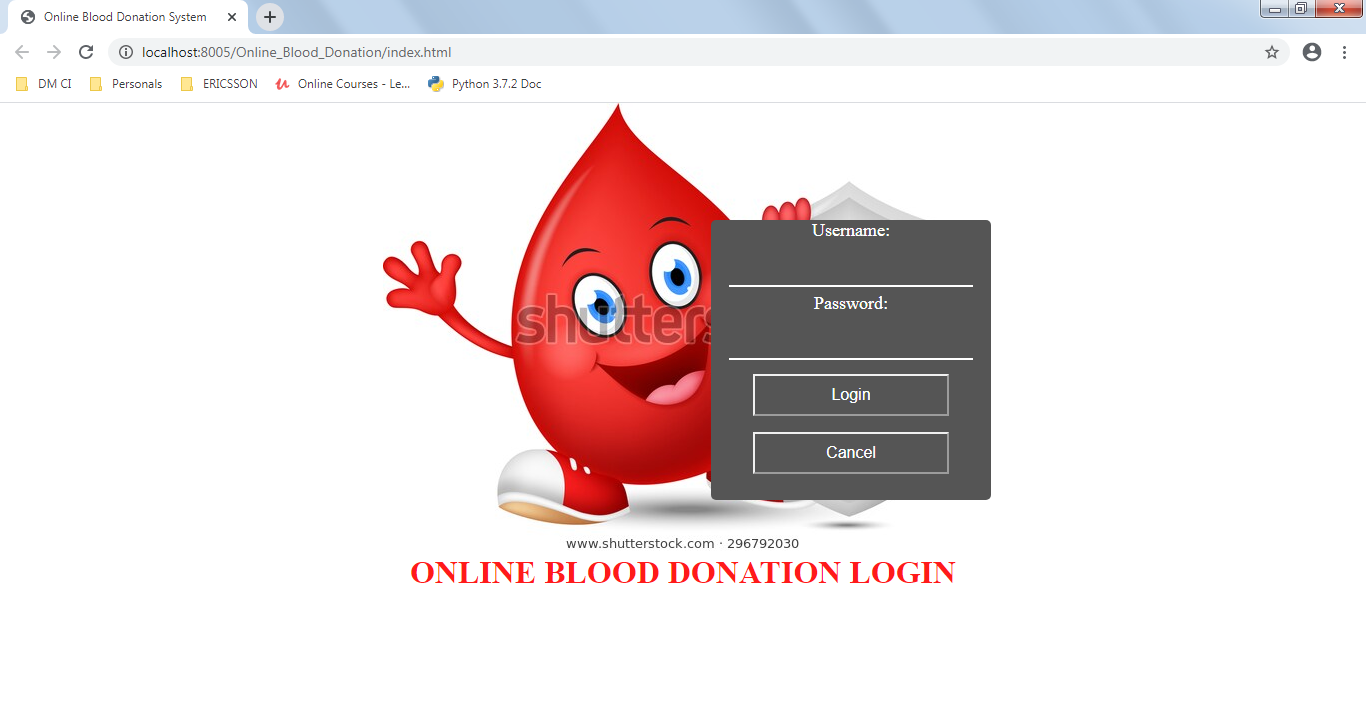
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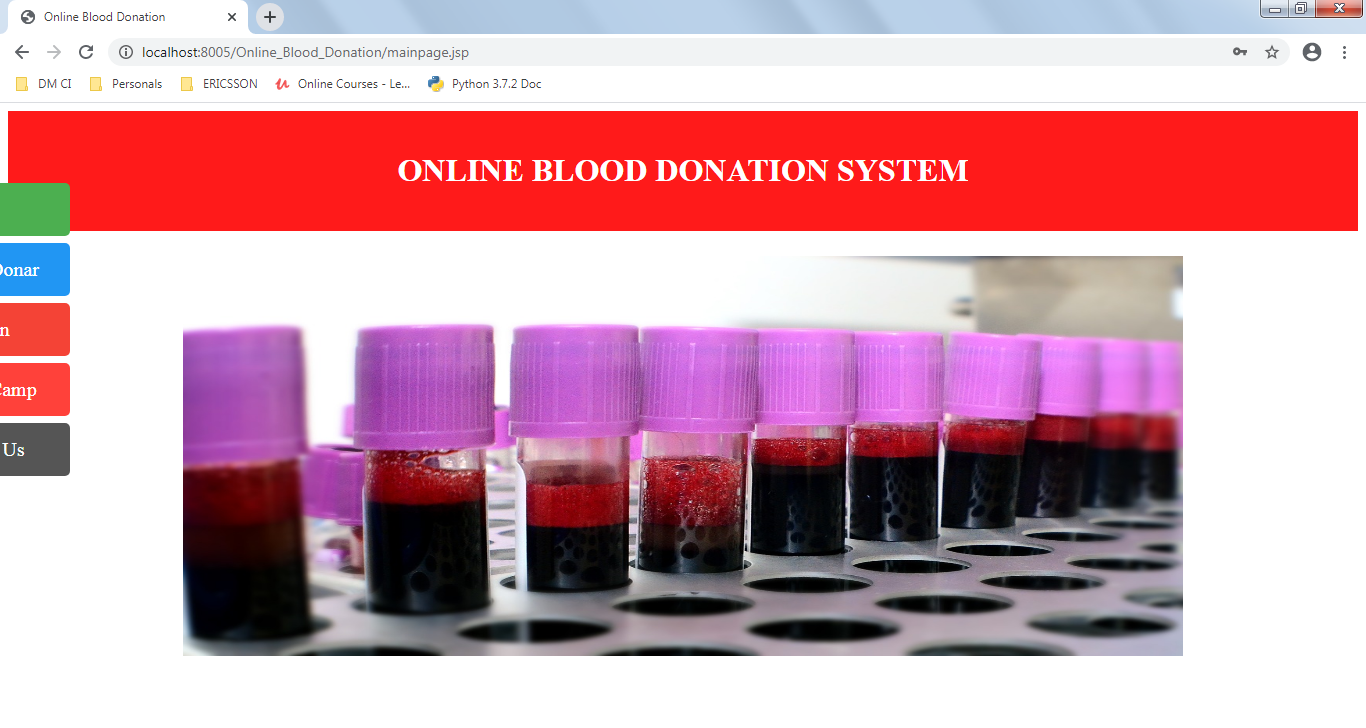
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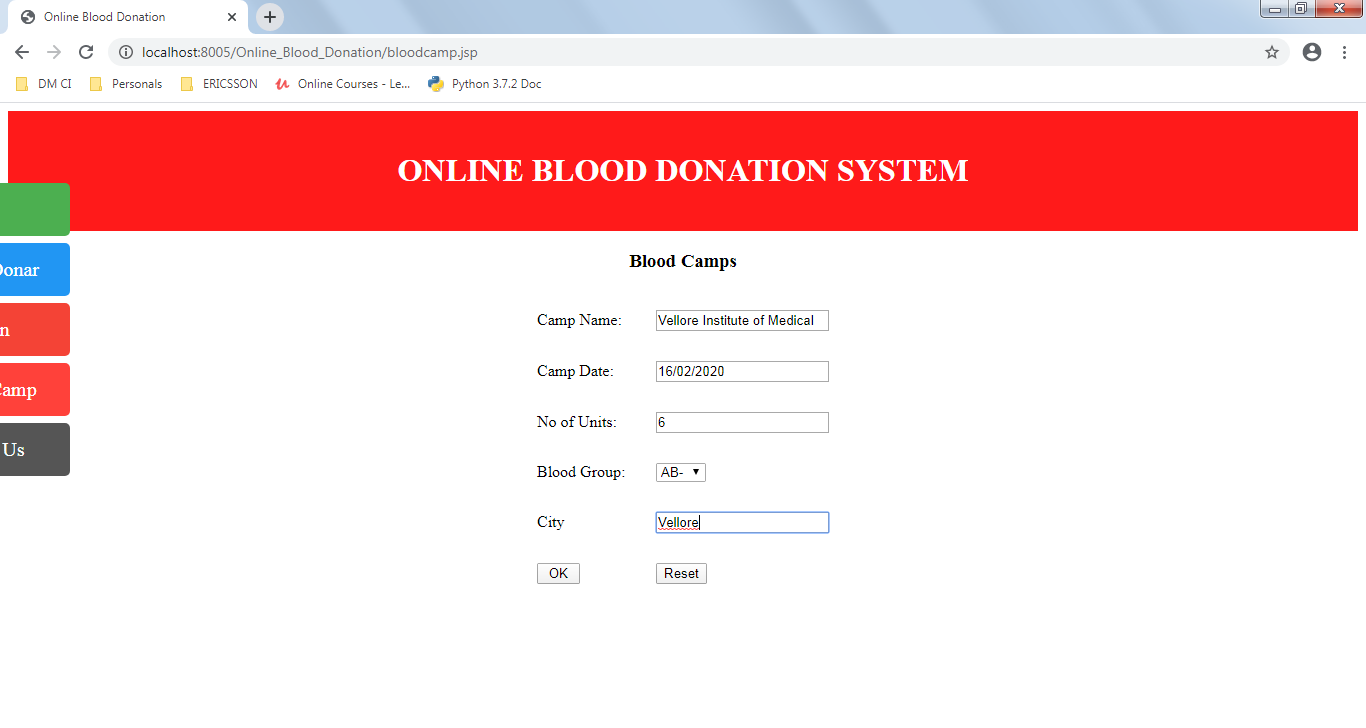
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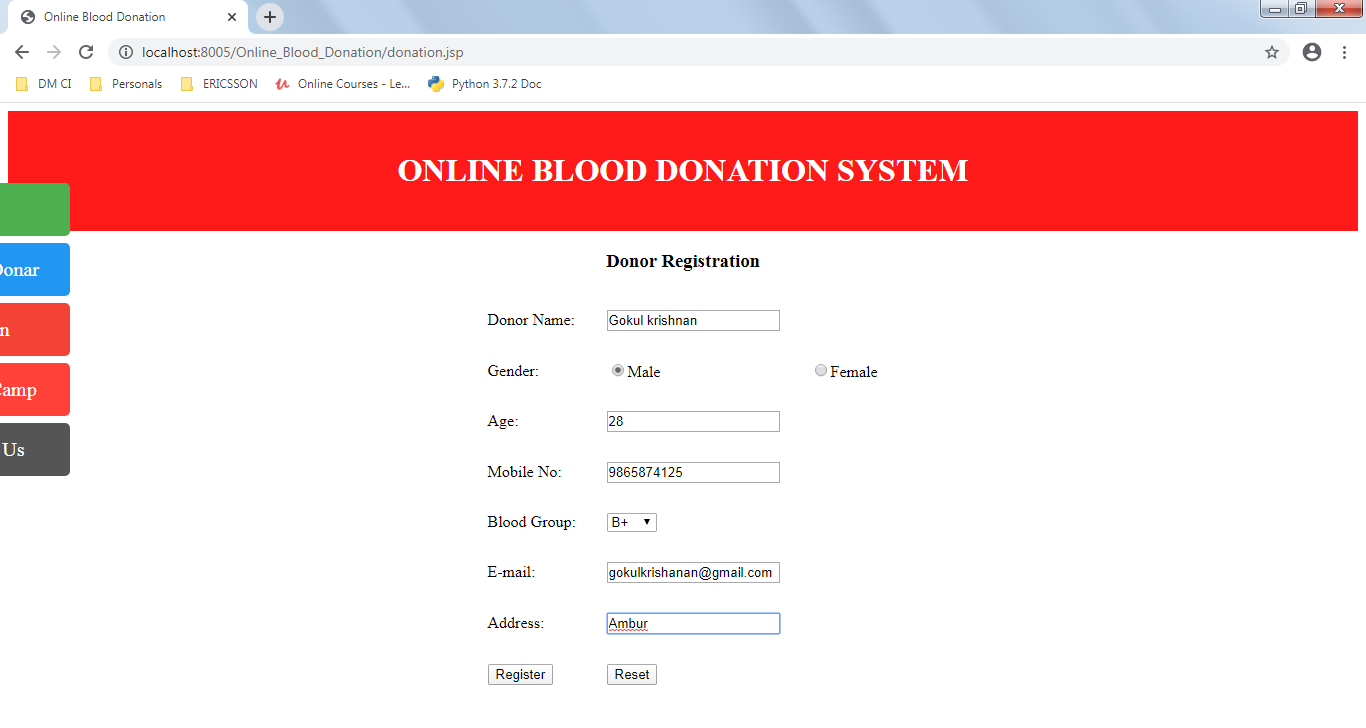
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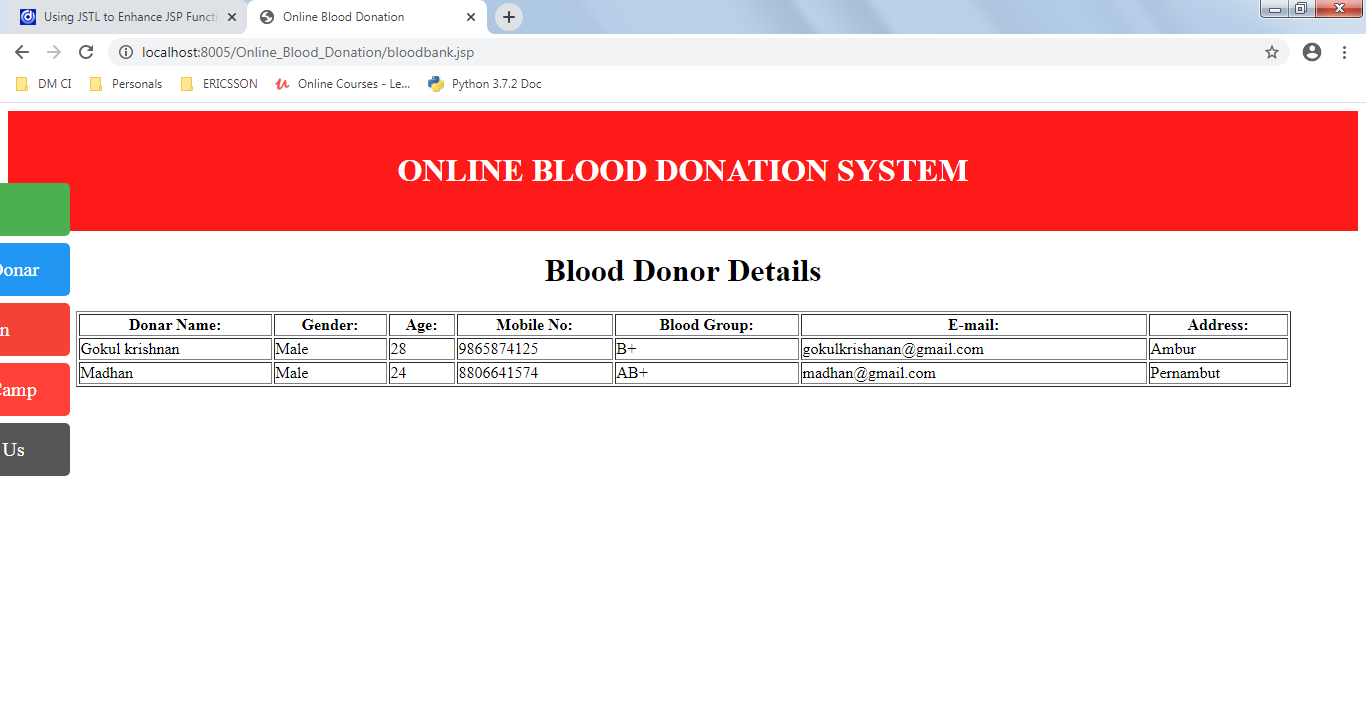
1. **SCREEN SHOT:**

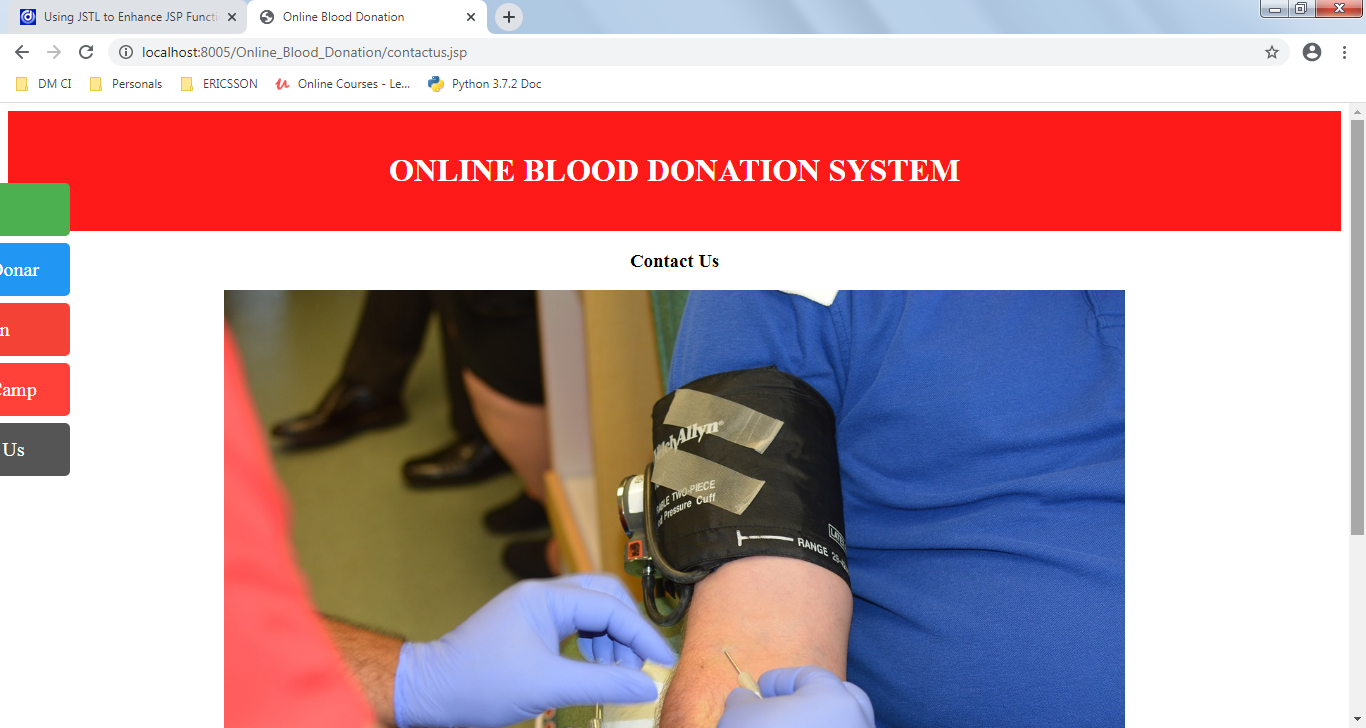












1. **CONCLUSION**

This project has given me an ample opportunity to design, code, test and implements an application. This has helped in putting into practice of various Software Engineering principles and Database Management concepts like maintaining integrity and consistency of data. Further, The online Blood Donation provide an alternate pleasure for me that it help a lot of people with is wide application and necessity.

I thank my guide for his invaluable contribution in guiding me through out the project.  I also thank my parents and friends who have supported and motivated me to complete this project successfully.

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