

EduBridge



A Project Report

On

Blood Bank Management **System**

By

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B.E(Computer)

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INTRODUCTION

The **Blood Bank Management System** project has been developed on **Java, JSP and MySQL**. The main purpose for developing this project is to connect and digitize the blood bank management system online. This project intends different types of forms with like add new donor form, blood request form ,contact us form where new donors can register online and also the people who needs blood unit can fill blood request form online. In this project we have created the admin page where the admin can register the new donor ,manipulate the donor details, manage stock, complete the blood requests or delete unnecessary data from database. This project provides lot of features to the new blood donors and blood suppliers in very well manner.

SOFTWARE REQUIREMENTS

1. Front end: Java/J2EE technologies (Servlet, JSP), HTML, CSS, Bootstrap, JDBC
2. Back end: MySQL
3. Server: ApacheTomcatv 8.5V
4. IDE: Eclipse IDE for Java EE Developers
5. Browser: Best result on Google Chrome
6. Operating System: Window 10

DATA DICTIONARY

Database:-

```
create database bloodbank;
```

```
use bloodbank;
```

Table name:-Bloodrequest

```
CREATE TABLE `bloodrequest` (`name` varchar(45) NOT NULL,  
 `mobilenumber` varchar(10) NOT NULL,  
 `email` varchar(45) default NULL,  
 `bloodgroup` varchar(45) NOT NULL,  
 `status` varchar(45) NOT NULL,  
 PRIMARY KEY (`name`)) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

Table name:-Donor

```
CREATE TABLE IF NOT EXISTS `donor` (  
 `id` int(10) NOT NULL AUTO_INCREMENT,  
 `name` varchar(100) NOT NULL,  
 `mobilenumber` varchar(10) NOT NULL,  
 `email` varchar(100) default NULL,  
 `sex` varchar(100) NOT NULL,  
 `bloodgroup` varchar(100) NOT NULL,  
 `address` varchar(100) NOT NULL,  
 PRIMARY KEY (`id`))ENGINE=InnoDB DEFAULT CHARSET=latin1  
 AUTO_INCREMENT=21;
```

Table name:-Stock

```
CREATE TABLE `stock` (`bloodgroup` varchar(45) NOT NULL,  
`units` varchar(45) NOT NULL,  
PRIMARY KEY (`bloodgroup`)) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

MODULES AND DESCRIPTION OF BLOOD BANK MANAGEMENT PROJECT

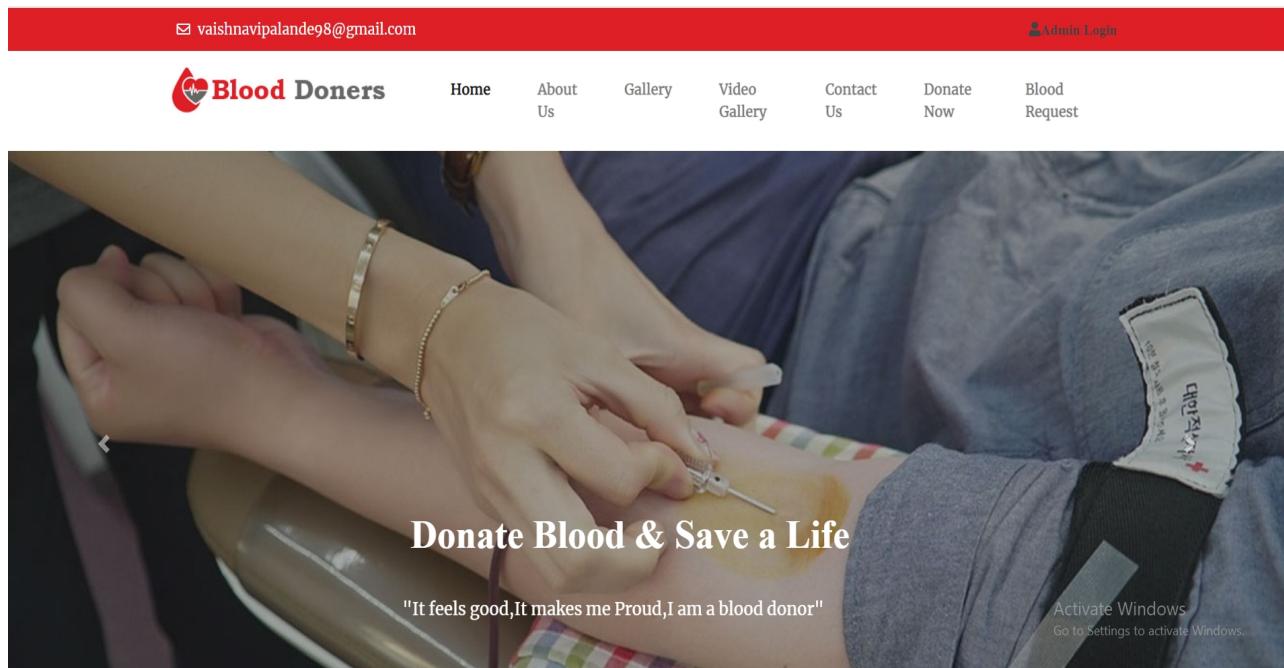
Blood Bank Management Module:-

In this module, the sub modules that available are:

1. Home
2. About
3. Gallery
4. Video Gallery
5. Contact Us
6. Donation Process
7. Donate Now
8. Blood Request
9. Admin Login
10. Admin Home Page
11. Modify Donor Details
12. Stock Management
13. To Do List

1. Home Page:-

The Blood Bank Name is Blood Doners and the below image is the home page of the website.



2. About Us:-

The image shows the "About Us" page of the Blood Donors website. At the top, there is a navigation menu with links for Home, About Us, Gallery, Video Gallery, Contact Us, Donate Now, and Blood Request. The main content area has a heading "About Us" and a sub-heading "Blood Donors: A Blood Bank Management System". Below this, there is a section titled "About Blood Donors" with a paragraph of text about the organization's standards and guidelines. To the right of this text is a graphic of two hands holding a red heart-shaped drop of blood with a white cross in the center. In the bottom right corner of the page, there is a watermark that says "Activate Windows Go to Settings to activate Windows." The logo "Blood Donors" is located at the top left of the page.

3. Gallery:-

 **Blood Donors**

Home About Us Gallery Video Gallery Contact Us Donate Now Blood Request

Checkout Our Gallery



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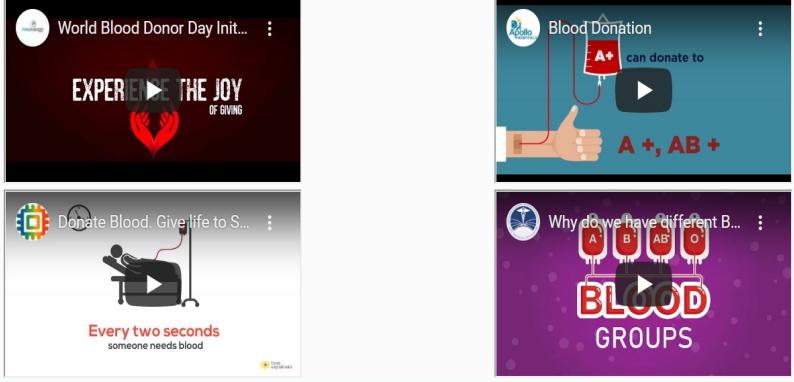
4. Video Gallery:-

 **Blood Donors**

Home About Us Gallery Video Gallery Contact Us Donate Now Blood Request

Video Gallery

"You Can't Buy A Life For Someone With Money, But You Can Save A Life Of Someone By Donating Blood to that Person"



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5. Contact Us:-

 [Home](#) [About Us](#) [Gallery](#) [Video Gallery](#) [Contact Us](#) [Donate Now](#) [Blood Request](#)

Contact Information

1st floor Blood Doners Bank,Navi Peth,Pune

vaishnavipalande98@gmail.com
support@blooddoners.com

+91 8956799296
+91 9422648993



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Also we have created the google form for the any queries and message so that we can easily early .



Contact Us

We are always there to help you and give you quick response to your message.

* Required

"DONATE BLOOD, MAKE THE WORLD A HEALTHIER PLACE"



Name *

Your answer _____

Email *

Your answer _____

Address *

Your answer _____

Phone number

Your answer _____

Message *

Your answer _____

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6. Donation Process:-


[Home](#)
[About Us](#)
[Gallery](#)
[Video Gallery](#)
[Contact Us](#)
[Donate Now](#)
[Blood Request](#)

Donation Process

The blood donation process from the time you arrive center until the time you leave. The donation itself is about 10-12 minutes on average.



1 - Registration

*We'll sign you in and go over with basic eligibility.

*You'll be asked to show ID, such as voting card, driver's license.

*You'll read some information about donating blood.



2 - Health CheckUp

*We'll check your temperature, pulse, blood pressure and hemoglobin level.

*You'll answer a few questions about your health history



3 - Donation

*If you're donating whole blood, we'll cleanse an area on your arm and insert a brand new sterile needle for the blood draw.

*When approximately a pint of whole blood has been collected, the donation is complete and a staff person will place a bandage on your arm.



4 - Save Life

*After donating blood, you'll have a snack and something to drink in the refreshment area.

*Enjoy the feeling of accomplishment knowing you are helping to save lives.

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7. Donate Now:-

✉ vaishnavipalande98@gmail.com [Admin Login](#)

 [Home](#) [Contact Us](#) [Donate Now](#) [Blood Request](#)

ADD NEW DONOR

Name:

Mobilenumber:

Email:

Sex:

Bloodgroup:

Address:

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8. Blood Request:-

✉ vaishnavipalande98@gmail.com [Admin Login](#)

 [Home](#) [Contact Us](#) [Donate Now](#)



**Save a life
Give Blood**

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Enter Your Details to Request for Blood

Enter Name

Enter Mobile Number

Enter Email Address

Enter Blood Group

Submit

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9. Admin Login:-

Admin Portal



Home

Contact Us

Donate Now

Blood Request

Username

Enter Username

Password

Enter Password

Submit

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10. Admin Home Page:-

After login into the admin login page then admin home page appears.

The screenshot shows the 'ADMIN LOGIN' page. At the top, a banner says 'Welcome to Blood Doners Admin Login'. Below it is a navigation bar with links: Home, To Do List, Add New Donor, Edit,Delete & List of Donor Details, Manage Stock, Request for Blood, Request Completed, and Logout. A green 'Home' button is highlighted. Below the navigation is a search bar with the placeholder 'ENHANCED BY Google' and a magnifying glass icon. The main content area has two cards: 'Task 1' (Maintain the proper record of donors) and 'Task 2' (Update in the database blood units of new donors). A watermark 'Activate Windows Go to Settings to activate Windows.' is visible in the background.

The screenshot shows the 'ADMIN HOME' page. At the top, a navigation bar includes Home, To Do List, Add New Donor, Edit,Delete & List of Donor Details, Manage Stock, Request for Blood, Request Completed, and Logout. A green 'Home' button is highlighted. Below the navigation are two cards: 'Task 3' (Take review of system three times in week.) and 'Task 4' (If any problem takes place then update to IT support team.). A central title 'Roles and Roles and Responsibilities For Admin' is displayed.

User Administration

- 1.The primary responsibility of a sysadmin is to support reliable and effective use of complex IT systems by end users, whether internal employees or external customers.
- 2.Activities range from managing identities and access to providing dedicated technical support to individual users.

System maintenance

- 1.Sysadmins are responsible for dependable access and availability to IT systems.
- 2.Sysadmins are therefore required to troubleshoot and fix issues that compromise system performance or access to an IT service.

Documentation

Sysadmins are required to maintain records of IT assets usage. To plan for future IT investments and upgrades, you will document:

*End-user requests

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*Business requirements

11. Modify Donor Details:-

The new donor registration details are displayed in donor list tables.

ADMIN LOGIN
Welcome to Blood Doners Admin Login

[Home](#) [To Do List](#) [Add New Donor](#) [Edit,Delete & List of Donor Details](#) [Manage Stock](#) [Request for Blood](#) [Request Completed](#) [Logout](#)

Donor List

Id	Name	Mobilenumber	Email	Sex	Bloodgroup	Address	Edit	Delete
13	Vaishnavi Palande	1234567890	vais12@gmail.com	Female	A+	India	Edit	Delete
21	Vaishnavi Palande	1234567890	vaishnavipalande98@gmail.com	Female	A-	A/p 8,M.I.D.C,Tembhurni	Edit	Delete
22	Vaishnavi Santosh Palande	1234567890	vaishnavipalande9111@gmail.com	Female	A+	A/p 8,M.I.D.C,Tembhurni	Edit	Delete
23	aditi patil	1234567890	aditi111@gmail.com	Female	O+	India	Edit	Delete

[Add New Donor](#)

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The donor list can be edited and deleted .

ADMIN LOGIN
Welcome to Blood Doners Admin Login

[Home](#) [To Do List](#) [Add New Donor](#) [Edit,Delete & List of Donor Details](#) [Manage Stock](#) [Request for Blood](#) [Request Completed](#) [Logout](#)

EDIT DONOR LIST

Name:	<input type="text" value="Vaishnavi Palande"/>
Mobilenumber:	<input type="text" value="1234567890"/>
Email:	<input type="text" value="vais12@gmail.com"/>
Sex:	<input type="text" value="Male"/>
Bloodgroup:	<input type="text" value="A+"/>
Address:	<input type="text"/>

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12. Stock Management:-

ADMIN LOGIN

Welcome to Blood Doners Admin Login

Home To Do List Add New Donor Edit,Delete & List of Donor Details Manage Stock Request for Blood Request Completed Logout

Select Blood Group

A+

Select Increase/Decrease

Increase

Units

Enter Units

Save

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Home To Do List Add New Donor Edit,Delete & List of Donor Details Manage Stock Request for Blood Request Completed Logout

Stock

Enter Units

Save

BloodGroup	Units
A+	100
A-	100
AB+	105
AB-	100
B+	95
B-	100
O+	100
O-	100

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13. To Do List:-

To Do List of Admin	
Title...	Add
Check the number of blood units	x
✓ Check Donors List	x
Check System Problem	x
Complete request of blood requirement	x
Check the working of database	x
Check updates of website	x

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14. Request For Blood:-

After the blood request form the data displays in the request for blood database.

ADMIN LOGIN						
Welcome to Blood Doners Admin Login						
Home	To Do List	Add New Donor	Edit,Delete & List of Donor Details	Manage Stock	Request for Blood	Request Completed
						Logout

Name	Mobile Number	Email	Bloodgroup	Done	Delete
gaurav bhosale	1234567890	gaurav1111@gmail.com	B-	Done	Delete

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15. Request For Blood Completed:-

After the blood request completes the data displays in the request completed database.

The screenshot shows a web-based application titled "ADMIN LOGIN". The main heading is "ADMIN LOGIN" and the sub-heading is "Welcome to Blood Donors Admin Login". Below the heading is a navigation bar with links: Home, To Do List, Add New Donor, Edit,Delete & List of Donor Details, Manage Stock, Request for Blood, Request Completed, and Logout. The main content area displays a table with columns: Name, Mobile Number, Email, and Bloodgroup. The table contains the following data:

Name	Mobile Number	Email	Bloodgroup
Aditi Palande	1234567890	vai111@gmail.com	A+
aditi patil	1234567890	aditi111@gmail.com	B+
mayuri patil	1234567890	mayuri1@gmail.com	B+
Santosh Palande	1234567890	santosh111@gmail.com	AB+
Vaishnavi Palande	1234567890	vaishnavi12@gmail.com	AB+
Vaishnavi Palande	1234567890	vaishnavipalande98@gmail.com	A+
Vaishnavi Santosh Palande	1234567890	vaishnavipalande8@gmail.com	A+
vvv	1234567890	va@gmail.com	A+

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CONCLUSION

The Blood Bank Management System is developed using java and mysql. Based on the objectives the system is completely developed. The system is operated at a high level of efficiency.