



A Project Report

On

# **Blood Bank Management System**

By

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**Batch: - 2020 – 4965**

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# Introduction:

Our project explains about the Blood Bank management . The main aim of developing this system is to provide blood to the people who are in need of blood. Using this system user can search blood group available in blood bank and also people can register himself or herself who want to donate blood. To register in the system they have to enter their contact information like address , mobile number etc.

Modules of Blood Bank Management System :-

- Admin
- Donors
- Donors Registration
- Modifying Donor Information
- Acceptors
- Stock Management
- Donor Search

Blood bank management project in java using JSP, Servlet, MYSQL, and Eclipse IDE. It's using MVC architecture and running on the Tomcat Server. Let's check out the complete functionalities of Blood Bank management project in java.

This project is performing all the basic operations like Crud operations (Add, Edit, Update, Delete). It's using MySQL to manage the back end activity.

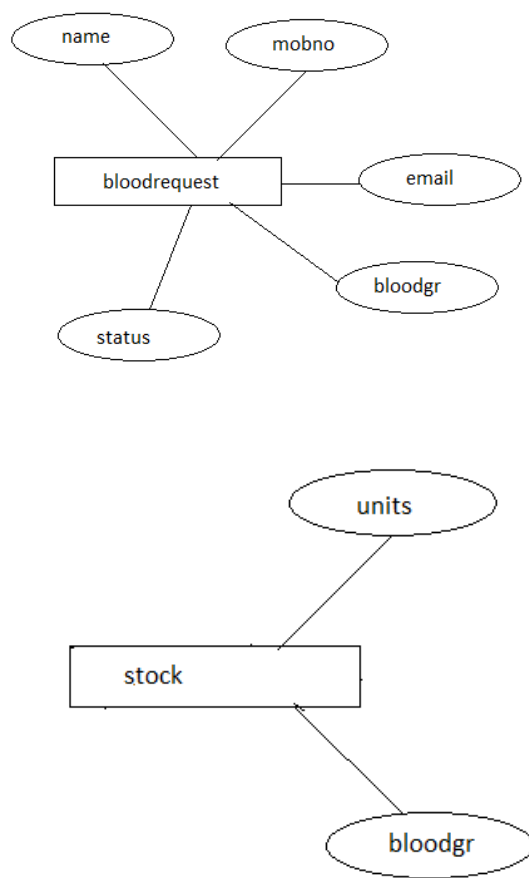


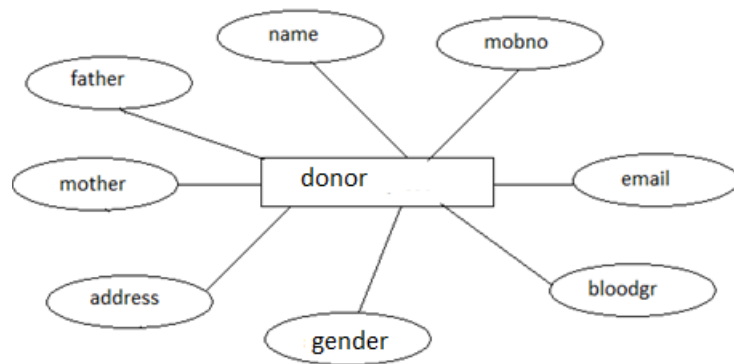
# Software Requirements:

Frontend:	Java/J2EE technologies (Servlet, JSP),HTML, CSS, JDBC.
Backend:	MySQL.
Middleware/Server:	Apache Tomcatv9.0.
IDE:	Eclipse IDE for JavaEE Developers
Browser:	Best result on Google Chrome
Operating System:	Window XP(Minimum).



# ERD (Entity Relationship Diagram):





## Data Dictionary:

Table name: Donor

```
CREATE TABLE donor(  
    id int(10),  
    name varchar(200),  
    father varchar(200),  
    mother varchar(200),  
    mobno varchar(10),  
    gender varchar(30),  
    email varchar(200),  
    bloodgr varchar(20),  
    address varchar(200)  
);
```

Table: Stock

```
CREATE TABLE stock(  
    bloodgr varchar(100),  
    units varchar(50)  
);
```

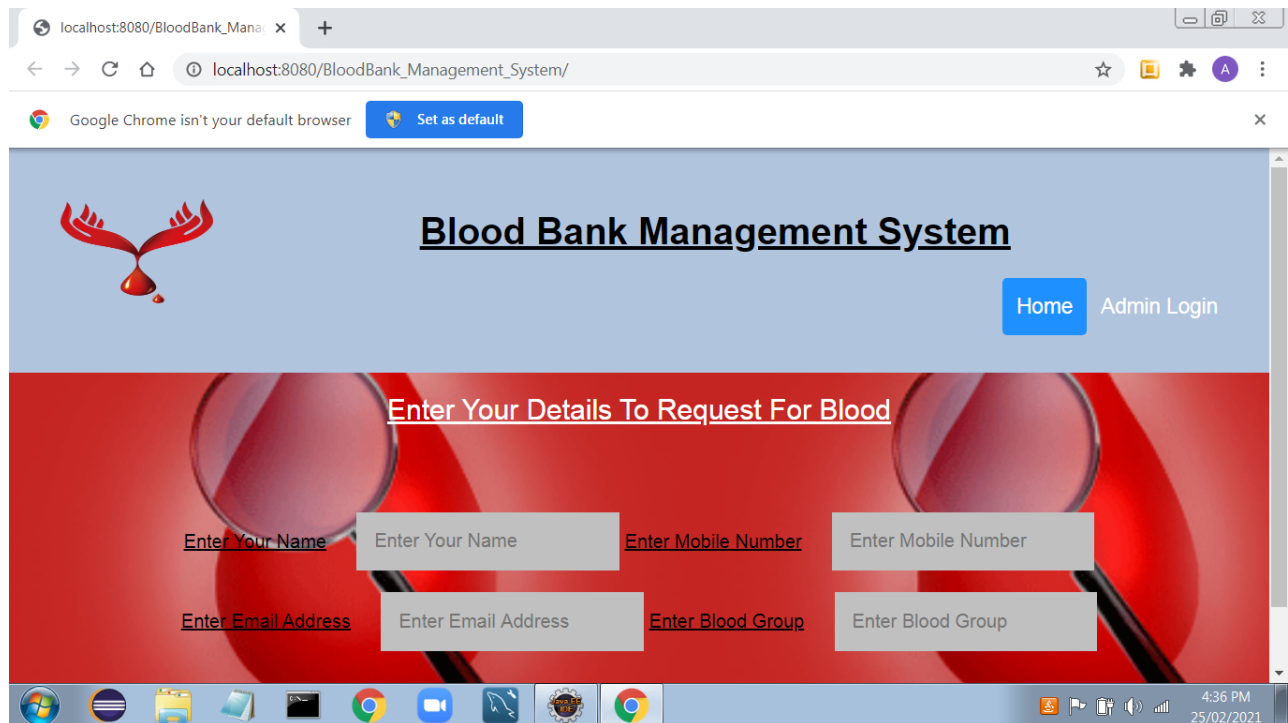


# Table: BloodRequest

```
CREATE TABLE bloodrequest(  
    name varchar(30),  
    mobno varchar(10),  
    email varchar(30),  
    bloodgr varchar(10),  
    status varchar(100)  
);
```

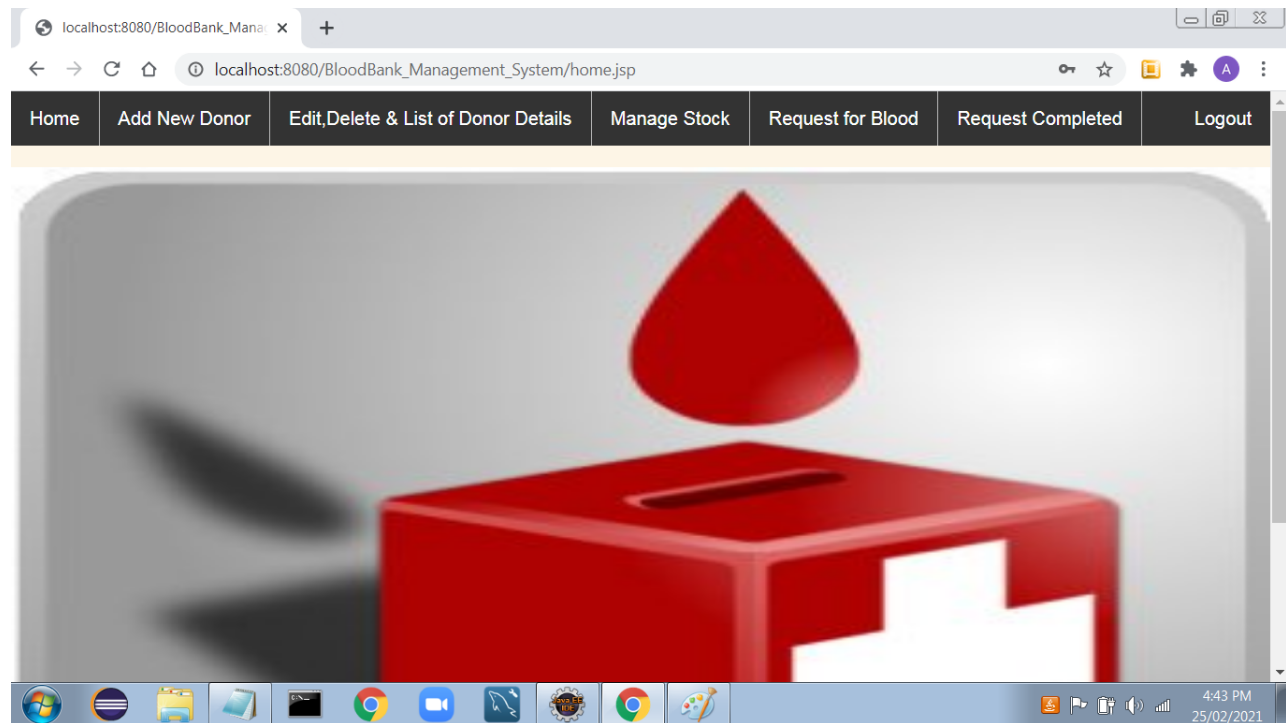
## Screenshots :-

Index Page:-



Edit with WPS Office

## Home After Login :-



## Login Page :-

The screenshot shows a web browser window with the address bar displaying 'localhost:8080/BloodBank\_Management\_System/adminLogin.jsp'. The page features a blue header with a red phoenix logo on the left, the title 'Blood Bank Management System' in the center, and 'Home' and 'Admin Login' links on the right. The main content area has a red background with a large red blood drop graphic. It contains two input fields: 'User Name' with the placeholder 'Enter User Name' and 'Password' with the placeholder 'Enter password'. A black 'Submit' button is positioned below the password field. The Windows taskbar at the bottom shows various application icons and the system clock indicating 4:41 PM on 25/02/2021.

localhost:8080/BloodBank\_Management\_System/adminLogin.jsp

**Blood Bank Management System**

Home Admin Login

**User Name**

Enter User Name

**Password**

Enter password

Submit

4:41 PM 25/02/2021

## Donor Registration :-

The screenshot shows a web browser window with the address bar displaying 'localhost:8080/BloodBank\_Management\_System/addNewDonor.jsp'. The page has a dark navigation bar with links: 'Home', 'Add New Donor', 'Edit,Delete & List of Donor Details', 'Manage Stock', 'Request for Blood', 'Request Completed', and 'Logout'. The main content area has a red background with a large red blood drop graphic. It displays 'Donor ID: 3' in red text. Below this are three input fields: 'Name' with placeholder 'Enter Name', 'Father Name' with placeholder 'Enter Father Name', and 'Mother Name' with placeholder 'Enter Mother Name'. The Windows taskbar at the bottom shows various application icons and the system clock indicating 12:07 PM on 06/03/2021.

localhost:8080/BloodBank\_Management\_System/addNewDonor.jsp

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

**Donor ID: 3**

**Name**

Enter Name

**Father Name**

Enter Father Name

**Mother Name**

Enter Mother Name

12:07 PM 06/03/2021



localhost:8080/BloodBank\_Manage x +

localhost:8080/BloodBank\_Management\_System/addNewDonor.jsp

**Mobile Number**

Enter Mobile Number

**Gender**

Male

**Email**

Enter Email Address

**Blood Group**

A+

12:08 PM 06/03/2021

localhost:8080/BloodBank\_Manage x +

localhost:8080/BloodBank\_Management\_System/addNewDonor.jsp

Male

**Email**

Enter Email Address

**Blood Group**

A+

**Address**

Enter Address

Save

12:09 PM 06/03/2021



## Stock Management:-

localhost:8080/BloodBank\_Manage x +

localhost:8080/BloodBank\_Management\_System/manageStock.jsp

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

Select Blood Group

A+ B- A+ B- O+ O-

Select Increase / Decrease

Increase

Units

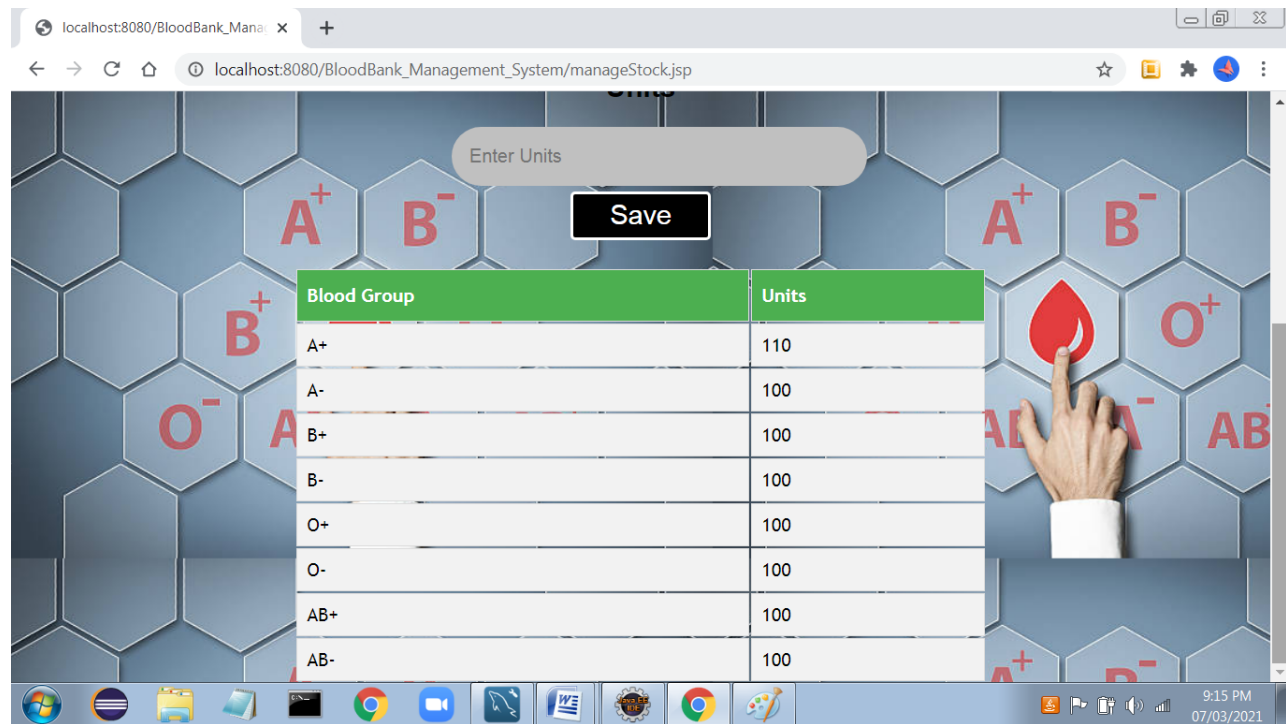
Enter Units

Save

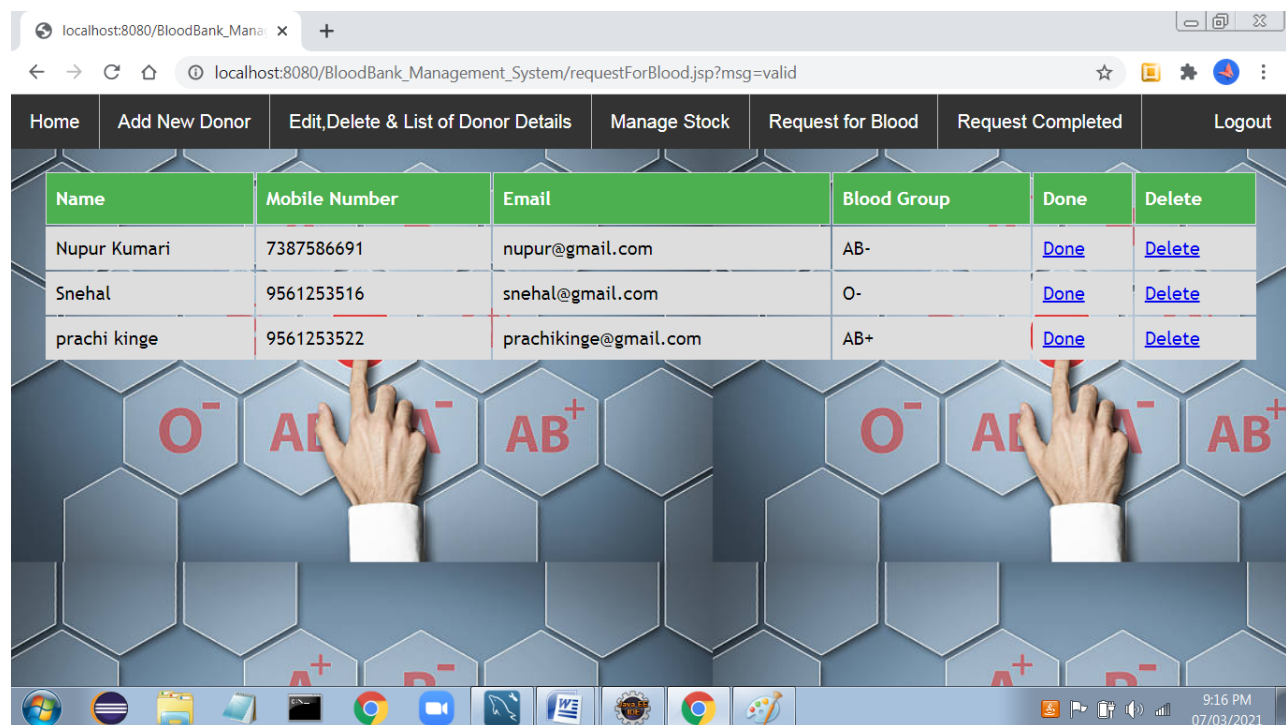
Blood Group	Units
-------------	-------

9:13 PM 07/03/2021





## Request For Blood Page:-



## Request Completed Page :-

localhost:8080/BloodBank\_Management\_System/requestCompleted.jsp

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

Name	Mobile Number	Email	Blood Group
Ankita	9022548834	mahajanankita@828gmail.com	AB+
Ankita	9022548834	mahajanankita@828gmail.com	AB+

9:18 PM 07/03/2021



