# Project   On

# **Blood bank Management System**

MCA Sem-2nd

Sec-A

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# INTRODUCTION:

• The project blood bank management system is known to be a pilot project that is designed for the blood bank to gather blood from various sources and distribute it to the needy people who have high requirements for it.

• The software is designed to handle the daily transactions of the blood bank and search the details when required.

• It also helps to register the details of donors, blood collection details as well as blood issued reports.

• The software application is designed in such a manner that it can suit the needs of all the blood bank requirements in the course of future.

This project is developed to manage the blood stock in the "BLOOD BANK" and the blood prices are maintained in the database. New blood details are entered in to the project to manage blood details. Blood donor details are entered and maintained in the database. Blood sales and blood purchase are entered and maintained in this project. Blood stock reports, sales reports and blood purchase reports are managed in this project.

## LOGIN:

ADMIN -The page require user name and password to start the application. Login is a process by which individual access to a computer system is controlled by identifying and authenticating the user through the cardinalities presented by the user. Admin can add update or delete the user, city, state, camp etc.

## USER:

 User can register the account by filling the information about him and click on save button. He/she can add the account for the further enquiry of the blood donation. The user have to login to get more information about the blood bank.

## ADMIN ARE OF A TWO TYPES:

### ADMIN LEVEL USER

 Admin level  user is a admin user,  he/she logins  a admin panel  and works  on  all the pages of the admin site like add user, update user, delete user, add city, update city, delete city etc.

### GENERAL LEVEL USER

General level user is a general user, if he/she login a admin panel he/she does  not see all the pages of the admin site like add user, update user, delete user, add city, update city, delete city etc. They work on only an addition of the new user, city, state, camp etc.

## MAIN PAGE :

### MAIN WINDOW

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.

<u>REGISTRATION PAGE</u>

Registration page includes the information of the donor who wants to register. Donor can register the account by clicking on new register. He/she can add the account for the further enquiry of the blood donation.

## DONOR LOGIN:

The page requires donor id and password to open the donor panel. Login is a process by which individual access to a computer system is controlled by identifying and authenticating the user through the cardinalities presented by the user. Donor can change password, update profile or view donations etc

## <u>EXISTING SYSTEM</u>

 • The operation of the blood bank still now is maintained in the manual system.

 • The operation is tedious, time consuming and space consuming.

 • It creates room for errors as the data is entered manually by the persons.

 • It includes the risk of the documents being lost over years and maintenance of the records is difficult.

• The data recorded during testing or while acquiring the details of different aspects of blood bank management system is not so accurate and precise

. • Maintaining the stock of blood and the daily transactions without computerisation also poses a challenge.

## PROBLEM STATEMENT

• Scarcity of rare blood group.

• Unavailability of blood during emergency.

• Less awareness among people about blood donation and blood transfusion.

• Deaths due to lack of blood during operations.

• The Blood Bank Management System project aims to make all the procedures automated and therefore with computer system it can be more fast and accurate.

• This project is a high quality software to manage all these

cumbersome jobs.

## BENEFITS

1. Blood donation management.

2. Blood procurement.

3. Blood safety.

4.Blood and blood component production.

5. Blood and blood component storage and distribution.

6. Blood transfusion management.

7. Routine blood transfusion.

8. Emergency issue of blood.

 9. Management of returned and unused blood units.

 10. To provide online information flow for the management  of blood donors and recipients.


# REQUIREMENT ANALYSIS:

**Registration of Donor :**  Requires an interface for the registration the details of the donor.

 **Donor Details :**   Attributes - Donor ID, Name, Age, Address, Contact, Email, Blood Group, Gender, Date

**Health Information :**    Attributes - Body Weight, Pulse Rate, Haemoglobin, Weight of Bag, Blood Pressure, Temperature

 **Donation Details:**   Attributes - Blood Group, Number of Bags, Donation Date

 **Blood Bank:**  Requires an interface to display the details of the blood bank.

Attributes – Name, Address, Contacts, Hospitals Linked

**MDI Form:**  Requires an interface to build an MDI form. Requires the following menus: Employee(Update Details, Change Password), Transactions(Display various transactions), Reports(Display donor and test related reports), Help(Contact and Information), Exit(Terminate the project), Sign Out(User Log Out)

**Login:** Requires 2 Interfaces for login, Change of Password and Password Recovery.

Attributes – Email, Password, New Password, Recovery Question, Recovery Answer

**Employee** Requires an interface for updating or adding the details of the blood bank employee. ID, Name, Address, Email, DOB, Blood Group, Qualification Skills, Gender, Contact