# **Blood Bank Management System.**

# **ABSTRACT:**

The Blood Bank System in PHP is a simple project developed using PHP, JavaScript, Bootstrap, and CSS. The project contains an admin and user side. The admin can manage all the management like managing blood donors, camps information and managing the request of blood need, area, and so on. The admin has an important role in the management of this Blood Bank system.

For the user section, the users can go through the homepage. The user can register as a blood donor, request for blood need or search for blood through services page. This project makes a convenient way for the blood donors and the person who needs blood to communicate with each other.

Blood Bank Management System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. The required software and hardware are easily available and easy to work with.

**Software Requirements:**

|  |  |
| --- | --- |
| **Name of component** | **Specification** |
| **Operating System** | Windows 98, Windows XP, Windows7,8,10,11 – 64bit |
| **Language** | PHP Runtime Environment |
| **Database** | MySQL Server |
| **Browser** | Any of Mozilla, Opera, Chrome etc |
| **Front End** | HTML5, CSS3, Boostrap |
| **PHP Tools** | xampp-win32-5.5.19-0-VC11 |
| **Scripting Language Enable** | PHP |

### **Hardware Requirements:**

|  |  |
| --- | --- |
| **Name of component** | **Specification** |
| **Processor** | Intel 3 |
| **RAM** | 128 MB |
| **Hard disk** | 20 GB |
| **Monitor** | 15” color monitor |
| **Keyboard** | 122 keys |

# **Existing System**

This Blood Bank System is in PHP, JavaScript, Bootstrap, and CSS. Talking about the features of this system, it contains the admin section and the user section. All the editings, updating, managing donors, request of blood need, and editing places are from the admin section. The design of this system is pretty simple so that the user won’t get any difficulties while working on it.

**Disadvantages:**

Although I have put my best efforts to make the software flexible, easy to operate but limitations cannot be ruled out even by me. Though the software presents a broad range of options to its users some intricate options could not be covered into it; partly because of logistic and partly due to lack of sophistication. Paucity of time was also major constraint, thus it was not possible to make the software foolproof and dynamic. Lack of time also compelled me to ignore some part such as storing old result of the candidate etc.

Considerable efforts have made the software easy to operate even for the people not related to the field of computers but it is acknowledged that a layman may find it a bit problematic at the first instance. The user is provided help at each step for his convenience in working with the software.

* Excel export has not been developed for Blood Bank, Donor due to some criticality.
* The transactions are executed in off-line mode, hence on-line data for Doner, Blood capture and modification is not possible.

# **Proposed System**

The main objective of the Project on Blood Bank Management System is to manage the details of Blood Bank, Donor, Doner, Blood, Blood Group. It manages all the information about Blood Bank, Patient, Blood Group, Blood Bank. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Blood Bank, Donor, Patient, Doner. It tracks all the details about the Doner, Blood, Blood Group.

**Advantages:**

The organization will obviously be able to gain benefits such as savings in operating cost, reduction in paperwork, better utilization of human resources and more presentable image increasing goodwill.

* Use friendliness is the keyword for all the new software in the market. The proposed system incorporates this concept into itself to guide the user.
* At every stage of data entry necessary comments and validation messages are provided to the user.
* The proposed system is also expected to reduce the amount of paper work involved. The hard copies of only necessary documents need to be taken the rest can be avoided.
* Competitive environment is developed with the publications of other members of same level.

# **System Modules**

**Admin**

* Login
* Update blood group details for users
  + Update blood group
  + Total units of blood in stock
  + Blood Requested
* User Login Details
* Update Blood bank camp
* Hospital Name, Address, City, Contact, Date, Time
* Find who requested for Blood

**User**

* Camps
* Send Blood Request
* Name, Address, Needed Bloodgroup, Contact, Unit of blood, Time
* Blood Details
* Profile
* Search for donor
* View Request

# **Module Description**

**There are two logins**

One is for admin and another one is users. Users should do the registration process. Login process is done with the registered Username and password.

**Introduction about Bank Management System**

Full details of the Blood Bank with contact and location details.

**A.Sign Up:**

In the sign up page, the users should fill the registration form by giving their username, password, email\_id, blood group & gender. We will save all these details in our database. The admin of the Blood bank will have separate login form. Admin should fill it by giving the username and password.

**B. Home page:**

After logging in to the user login, there arises a home Page which comprise of various options- camps, send blood request, blood details, profile, view requests & about information. The user can choose what they wish. After logging in to the blood bank admin side, there arises admin home Page in which the blood bank admin can see the information of logged-in users, update the blood details for the users, uplods the camp details for the blood donor and see the requests for blood.

**C. Blood Bank details:**

This module comprises of the detailed information of the Blood Bank. The list of different facilities provided by the Blood bank is available. By clicking the camps, the information about the organized camps is displayed. This will make it easy for the users to know the information about the upcoming camps. User can request for blood and also donate the blood. User can see the availability of blood in blood bank and also see the requests of the another users.