

ABSTRACT

This project is aimed to developing an online Blood Donation Information System. The entire project has been developed keeping in view of the distributed client server computing technology, in mind. The website is designed to handle the daily transactions of the blood bank and search the details when required.

There are number of scenarios where urgent need of blood comes. At these critical time, Online Blood Bank project aims at maintaining all the information related to blood donors. 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. The number of persons who are in need of blood are increasing in large number day by day. In order to help people who are in need of blood, our Online Blood Bank can be used effectively for getting the details of blood donors having the same blood group and within the same city. With the help of our Online Blood Bank people who are having the thought of donating blood gets registered in my Online Blood Bank giving his total details. Our Online Blood Bank website is available to everyone easily. A person who likes to donate blood gives his entire details i.e., fill in the registration form and can create a username with a password by which he can modify his details if at all there are any changes in his information given before.

Introduction

A blood donation is a process whereby a person voluntarily has blood drawn to be used for future transfusions when in need at hospitals for treatment procedures that require them. Donation may be of whole blood (blood drawn directly from the body) or of specific components of the blood; such as red blood cells, white blood cells, plasma, and platelets. Blood banks often participate in the process of collecting blood and other procedures such as managing stocks, approving blood requests and updating donation information.

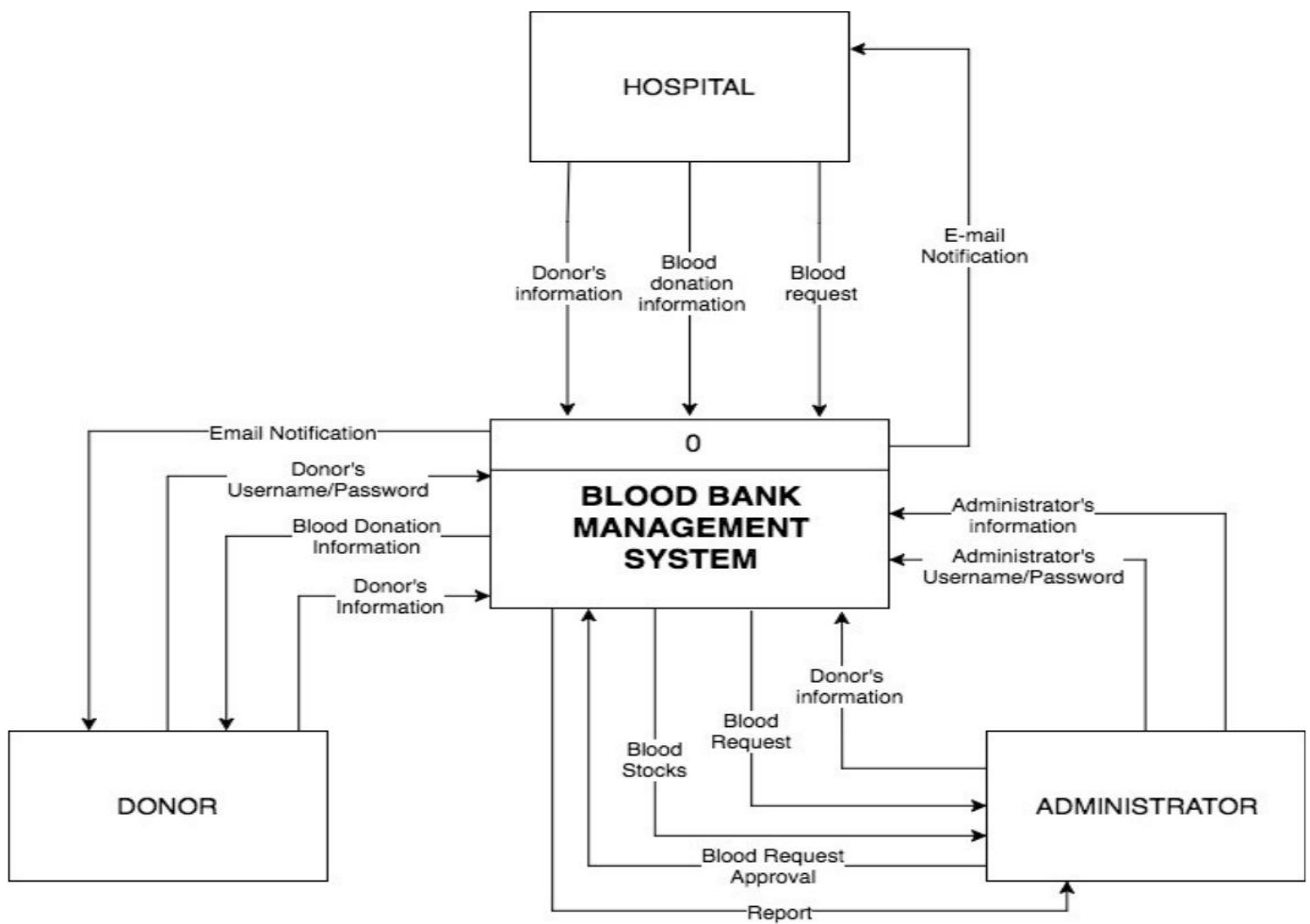
The main aim of developing this system is to provide blood to the people who are in need of blood. The number of persons who are in need of blood are increasing in large number day by day. Using this system user can search blood group available in the city and he can also get contact number of the donor who has the same blood group he needs. In order to help people who are in need of blood, this Online Blood Bank management system can be used effectively for getting the details of available blood groups and user can also get contact number of the blood donors having the same blood group and within the same city. So if the blood group is not available in the blood bank user can request the donor to donate the blood to him and save someone life. Using this bank management system 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.

Problem Definition

2.1 Existing System

- Cannot Upload and Download the latest updates.
- No use of Web Services and Remoting.
- Risk of mismanagement and of data when the project is under development.
- Less Security.
- No proper coordination between different Applications and Users.
- Fewer Users – Friendly

Data Flow Diagram



PROPOSED SYSTEM

To debug the existing system, remove procedures those cause data redundancy, make navigational sequence proper. To provide information about audits on different level and also to reflect the current work status depending on organization/auditor or date. To build strong password mechanism.

Advantages:

- User friendliness I provided in the application with various controls.
- The system makes the overall project management much easier and flexible.
- Readily upload the latest updates ,allows user to download the alerts by clicking the url.
- It provides high level of security with different level of authentication.
- Preliminary investigation examine project feasibility, the likelihood the system will be useful to the organization.

The main objective of the feasibility study is to test the Technical, Operational and Economical feasibility for adding new modules and debugging old running system. All system is feasible if they are unlimited resources and infinite time.

IMPLEMENTATION

Bank blood donation system in java is planned to collect blood from many donators in short from various sources and distribute that blood to needy people who require blood. To do all this we require high quality software to manage those jobs. The government spending lot of money to develop high quality “Blood Bank management system project”.

The system functions and features of our system will include the following:

Registration

This function allows the donor and administrator to register as a user to interact with the system. The system requires the user to login before viewing and editing any information

Data is input by the Administrators

The donor's information and donation records can be sent from the hospital to the administrator by calling or e-mail. The administrator is responsible for keying the received data into the system.

Recording donation records

The system can record data of whole blood which is sent from the hospital.

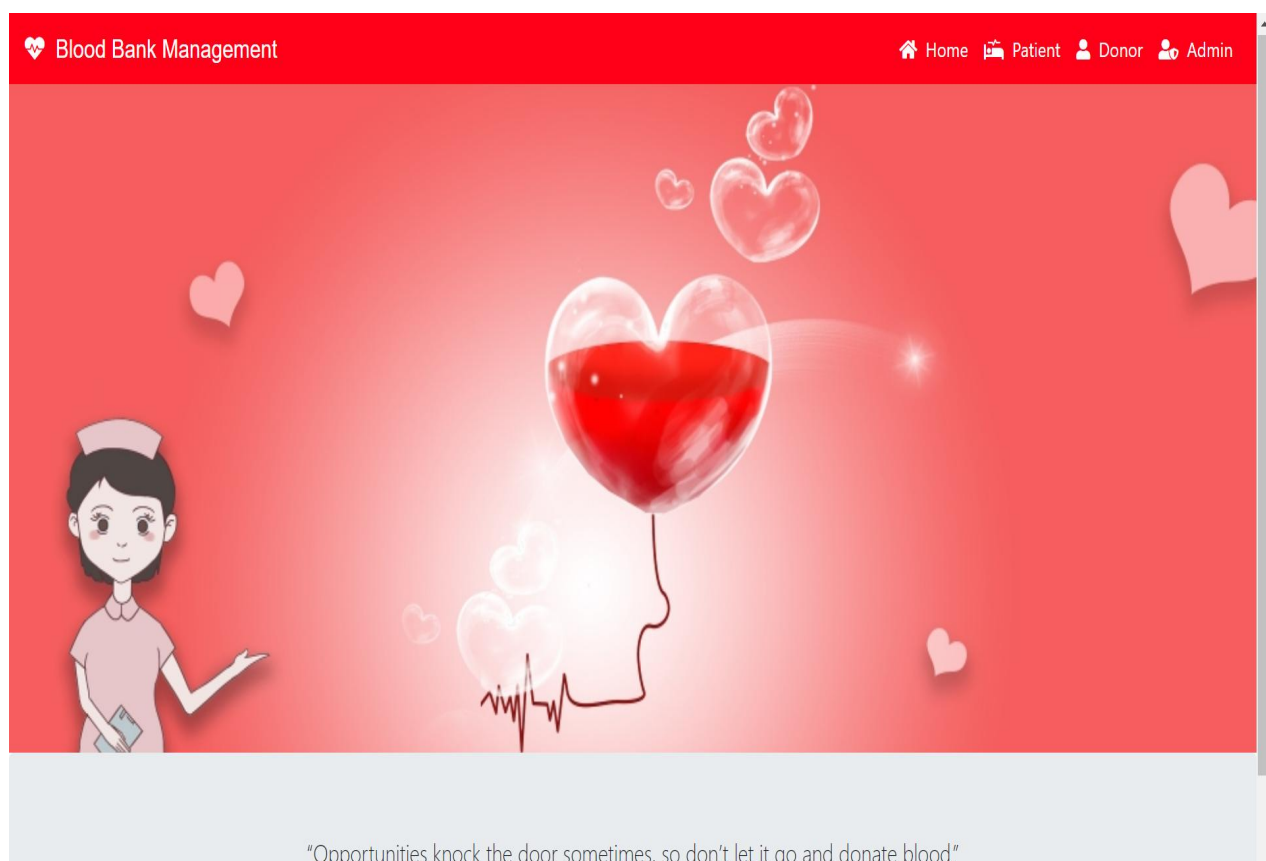
Manage blood inventory

The system uses a First-In-First-Out stock management, where the blood stock that is checked-in to the system first will be the first one given to the hospital when requested. When the blood stock is expired, the administrator is responsible for removing the stock from the inventory and updating the system

Blood requests

The hospital can request blood via e-mail and by calling to the blood bank.

OUTPUT SCREENSHOTS :



🏠 Home

👤 Donor

👤 Patient

👤 Donations

🔄 Blood Requests

🕒 Request History

👤 Blood Stock

A+🩸
1

B+🩸
2

O+🩸
37

AB+🩸
8

A-🩸
7

B-🩸
1

O-🩸
10

AB-🩸
32

Total Donors
3

👤

Total Requests
3

⬢

Approved Requests
2

✅

Total Blood Unit (in ml)
98

💧

Blood Bank Management System

Logout🔗

🏠 Home

👤 Donor

👤 Patient

👤 Donations

🔄 Blood Requests

🕒 Request History

👤 Blood Stock

BLOOD DONATION DETAILS

Donor Name	Disease	Age	Blood Group	Unit	Request Date	Status	Action
sumit	Nothing	24	O+	7	Feb. 14, 2021	Approved	7 Unit Added To Stock
sumit	Nothing	24	B+	3	Feb. 14, 2021	Rejected	0 Unit Added To Stock
sachin	Nothing	34	B-	3	Feb. 14, 2021	Pending	APPROVEREJECT
sachin	Nothing	20	AB-	7	Feb. 14, 2021	Pending	APPROVEREJECT
mona	Nothing	34	AB-	4	Feb. 14, 2021	Pending	APPROVEREJECT

Blood Bank Management System

Logout🔗

🏠

Blood Bank Management System

Logout

🔗

🏠 Home

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🕒 Request History

👤 Blood Stock

Blood Requested

Stock Doesnt Not Have Enough Blood To Approve This Request, Only 1 Unit Available

Patient Name	Age	Reason	Blood Group	Unit (in ml)	Date	Status	Action
sachin	30	fever	B-	2	Feb. 14, 2021	Pending	<div>Approve</div> <div>Reject</div>
mona	26	dengu	AB+	2	Feb. 14, 2021	Pending	<div>Approve</div> <div>Reject</div>



You Have Been Logged Out

Thank you for using our website

CONCLUSION

The main objective of this application is to automate the complete operations of the blood bank. They need maintain hundreds of thousands of records. Also searching should be very faster so they can find required details instantly.

The Blood Donation Management System 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 manage request blood online he can also make use of this site. Admin is the main authority who can do addition " deletion" and modification if required.