Blood Bank System

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Abstract— There is a need to handle the blood bag systematically that is received from the available blood bank resource or the blood donation events. It is important to take the responsibility of the received blood bag as it is going to be source of saving life of a human being. By using this app the one who is need can easily search the blood banks related information of blood type, date of blood donation , available blood group and much more. After the search of information the app will help to find the accurate information about donor easily, as expected to be faster and reliable. The main aim is to improve and spread the study of online blood bank management system. Keeping the view of all the computing technology and the work of distributed client server this project has been developed. The available agent at the organization is to provide the information related to donating of blood. The one who is ready to donate the blood can go and visit the organization or register online.
Keywords: Blood Bank System

I. Introduction

The aim is to involve the efficient use of more and more resources of blood in many areas as possible because there is twenty percent of reduction of sustainable blood resources.

Introduction to Blood Bank Management System is, it will gather, preserve to its required temperature and provide as per need. The one who is willingly ready to donate blood is collected by these blood banks. The further process of sorting the blood by its blood group, verifying the blood is free from diseases and store to the required temperature.

The most important part of this blood bank is to provide the facilities like providing the blood to the other health care organization and the hospitals. Blood has to be collected from the human that is donors by itself because it cannot be created in the universe by any means but it is a challenging task to collect from safe donors and monitoring it carefully. Without adequate blood neither the hospital, government nor the blood bank can support Health care.

The problem is not about the insufficient donor but finding it at the right time hence the basic aim is to provide the service to city by the means of blood donation. The main aim is maintaining information about blood donors, blood group available in different blood banks which will help faster for a better future of saving lives along with the quality and safety of the patient.

II. Significance of the Problem

The findings of this study will benefit blood banks in managing blood donation donors, activities, and blood bags. This will allow the hospital to take decision if a particular type of blood is needed and currently unavailable in the hospital, however, available in another nearby hospitals. Furthermore, managing the blood bags in the blood bank will be much easier because each blood bag has information about the donor, donation activity details, and the expiration date. Also, doctor can use this system to serve blood bags to their patient and monitor the details of the donor.

System advantages are as followed:

- The donor details can be easily find by the blood bank staff when needed.
- The system views the expiration of blood bag from where it has be provided
- The availability of blood bags is issued to the hospitals so that they can be aware of the preserved stock.
- It keeps all records of the registered blood donors and the activities performed by them.

Till now the awareness of blood donations has been increased in percentage by the people who are donating blood those in need. The blood is managed thoroughly so no negative effect is found in the blood when received by the receiver.

III. Proposed System

The campus information is handled by the system

This project contains 3 modules

- Admin
- Donors
- Acceptors

A. Admin

Donors & acceptors are both focused in this module. A user, id, password is been provided to both donor and acceptor which identifies uniquely.

A login form is been provided to the member, enters user id and login details.

The options are:

- Change the Password
- Maintain details for donor
- Maintain details for acceptor
- Update details for donor
- Update details for acceptor

B. Donor

A user id and password is provided to each member in a donor which can be identified uniquely provided with a login form. He / She enter user id, login details and password.

The options provided to each member are:

- Change the password
- Find Blood group.
- Why to donate blood

C. Acceptor

Information about acceptors can be stored.

- Change the password
- Find blood group.
- Who is in need of blood

IV. SYSTEM ANALYSIS

We have designed a system in android application called "Blood Bank Management System". Data is stored in MySQL database. Each database is maintained for the android application system which mainly includes of the registered donor's details, the database of hospital web application which includes of the records of available blood group samples. The database of this blood bank web application which includes of records of the blood group samples and their respective quantity available in every blood bank. The database of the android application is co-related with the database of the web application in our "Blood Bank

V. RESULT

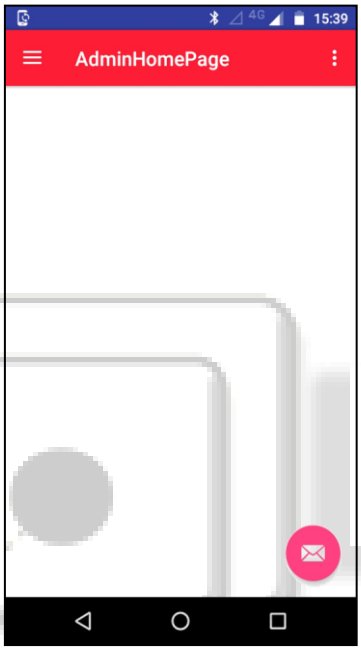

Fig. 1: Admin Home Page

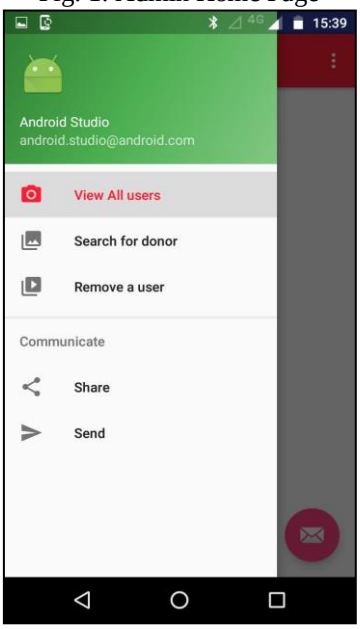

Fig. 2: First Page

Fig. 3: Blood Bank Detail Update

VI. CONCLUSION

Thus, we have studied about Python programming and the architecture of Android Studio Code. We also learnt about working principle of an Application System as well as Application Learning. As we have the contact numbers of the donors we can contact that particular donor when necessary comes or in emergencies. The main objective of our project Blood Bank Management System is to develop an emergency application for the people who need blood in emergency cases for patience.

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It gives us a great pleasure to finalize this project on "Application" domain with title.

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