# ANDROID BLOOD BANK MANAGEMENT SYSTEM

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## ABSTRACT

The Main objective of this application is its important role in saving the lives of human beings and which is also its main aim. The application of Android Blood Bank system is developed so that users can view the information about registered blood donors such as name, address, and other such personal information along with their details of blood group and other medical information of the donor. This application also has a login page where the user is required to register along with google account and only then can view the availability of blood and may also register to donate blood if who wishes too. Thus, this application helps to select the right donor online instantly using medical details along with the blood group. The main aim of developing this application is to reduce the time to a great extent that is spent in searching for the right donor and the availability of blood required. Thus, this application provides the required information in no time and also helps in quicker decision making.

Keywords: Donor,Bloodbank, Medical,information,Availability

## I.   INTRODUCTION

The numbers of persons who are in need of blood are increasing in large numbers day by day. As blood is one in every of the important constituents of the physical structure.[1] So to help those who are in need of blood, "Online bank Application" is utilized effectively for getting the small print of blood donors having the identical people and within the identical city. With the assistance of "Online bank Application" those who are having the thought of donating blood can get registered in "Online bank Application" giving the desired details. "Online bank Application" application is obtainable to designed to mainly store, process, retrieve and analyse information concerned with the manager or the admin and inventory management along the bank. The main aim of this project is to maintain all the data regarding the blood donors, different blood groups available in each bank and which helps them to manage the system in a better way.

## II      OBJECTIVES

The administrator can add edit and delete marks for the client and donors. All the       users can see their available donors. The project Android Blood Bank system is developed so that users can view the information about registered blood donors such as name, address, and other such personal information along with their details of blood group and other medical information of donor. The project also has a login page where in the user is required to register and only then can view the availability of blood and may also register to donate blood if he/she wishes to. This project requires internet access and thus there is a disadvantage of internet failure. Thus this application helps to select the right donor online instantly using medical details along with the blood group. The main objective of Android blood bank application is it allows us to access the whole information about Software , readily scalable and adaptable to meet the complex need of Blood Banks who are key Facilitator for the Healthcare Sector , it also supports all the functionalities of Blood Bank

## III        EXISTING SYSTEM

Blood is a saver of all existing lives in case of emergency needs. The task    of blood bank is to receive blood from various donors, to monitor the blood groups database and to send the required blood during the need to the hospital in case of emergencies. The problem is not insufficient number of donors, but finding a willing donor at the right time. We want to build a network of people who can help each other during an emergency. The other part of the system is a web portal that allows member blood banks to upload their blood collection agency's blood drives to become visible to their blood donors. In this way Blood Donor Mobile enables blood collection centers to better connect with their donors and collect more of the type of blood (or plasma, or platlets) they need, when they have a need for them. According to WHO data, India faces a shortage of 3 million blood units. This shortage can easily be eliminated if only an additional 2% of India's youth donates blood.

## IV        PROPOSED SYSTEM AND ITS ADVANTAGE:

In our proposed system we have the provision for adding the details of the users by themselves. So the overhead of the donor authorities has become less. Another advantage of the system is that it is very easy to edit the details of the users and delete a user when it is found unnecessary. The donors are added in the database and so users can also view the donors whenever they want.

All the records and data received or used are computerized and are now persistent. Manual calculations are automated. Access to all or any sorts of records made it easy. this technique will reduce the complexity to create the supply of blood sufficient. It'll even be feasible to analyse what number users have donated similarly as hospitals who have registered and asked for blood units.
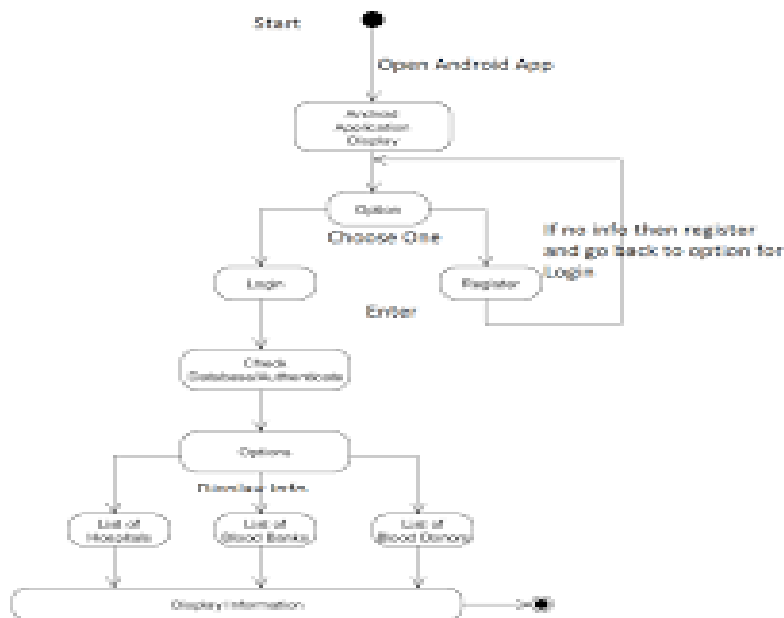
**Advantages of Proposed System**:

This system is User-Friendly as anyone can use it easily and interactive.

● This system helps to avoid wasting time to visit hospitals and to fill out blood donation forms. It is time saving with no complexities.

● It's a knowledge Security and backup facility and has easy navigation through records provided.

● Records/Information are easily approachable with 24 x 7 availability.

● It's a vital to higher component design to urge better performance at peak time. Creates and manages new users easily.

● Provides security to data through authorization.[3]

 **User Registration**: During this phase the user needs to first go through the registration process wherein he has to fill his details like name, registered address, contact number, blood type, age where he/she should fill his medical information within the form. [4] Request Blood: This is

 the second innovate which the user who is in need of blood needs to request blood by giving his/her details like required people, contact number of the user, current location of user (which are going to be fetched by the applying automatically), once requested, the list of the nearby donor's will get displayed and also are going to be notified Donor: This is the third innovate which the blood donor will get the notification of the blood request of the nearby blood requestor (user) and the contact details of the requestor are going to be displayed on the applying. Apart from this, the donor may donate the blood anytime as per his/her convenience on their will, by using the applying the second innovate which the user who is in need of blood needs to request blood by giving his/her details like required people, contact number of the user, current location of user (which are going to be fetched by the applying automatically), once requested, the list of the nearby donor's will get displayed and also are going to be notified.

## V       STAKEHOLDERS

Stakeholders are the folks who are accountable for the success of the organization. Stakeholders are the most source of information/knowledge to provide feedback and contribute to the development of the organization further. Following are the stakeholders of the organization:  **Admin** manages donors & System User & Hospital (Blood Bank). He/she can add or remove any user from the system anytime whenever required and also carry out other necessary actions required.[5] Each member is a donor & system user and blood banks are given with a user id and password, which helps to identifies him/her uniquely. Using the admin module, one can change donor details, also delete donors or change the password as per the need