

# ANDROID BLOOD BANK

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## I. INTRODUCTION

### A. Overview

The blood is specialized bodily fluid that delivers necessary substances to the body's cells such as nutrients and oxygen. Blood banking is a cache or bank of blood or blood components, gathered as a result of blood donation, stored and preserved for later use in blood transfusions. In addition to this, the blood type of patients also needs to be determined for compatibility sake for a blood transfusion. It is possible in some situations that the patient is unable to get the required amount of blood at right time due to lack of interrelationship in form of a networked database among the blood banks which leads to the lack of knowledge of updated record of all blood donors. Today mobile and mobile based applications have become a part of our day to day life. With the revolution in mobile computing many great features were added to the field and the mobiles got smaller, faster and better as the decade passed. This Android application is developed to easily search for blood in nearby areas for emergency. In this Android app one will get clear access to blood in real time and right place.

### B. Literature survey

In "The Optimization of Blood Donor Information and Management System by Technopedia" by P. Priya and V.Saranya [1] have proposed an efficient and reliable blood donor information and management system based on GIS integrated in android mobile application. The service provided by the proposed system is needed and valuable to health sector where a quality of the blood is considered for the safety of the patient through a systematic process by the blood management system. This system will be the solution for the problems such as wrong information of donors, misuse by third parties and updating the donated blood by the donor which replaces the older systems. The proposed system is a web based android application helps us to reduce the human mistakes which are done in the existing system. The wireless internet technique enables the flow of data to work more rapidly and conveniently. This is integrated framework which has a cloud-based application on mobile devices. The future work of the system is to extend this application to process through SMS services. By this the contact is hidden from other members. Some other text or number will be generated on behalf of the original phone number or email. This can be done without using the internet service where the acceptor sends blood request to donor by web but whereas the donor receiving the request is just a simple SMS in mobile. By this there will be secure BTS where strangers can't misuse the details of donors and where strangers can become helping hand for life at emergency situation. In "MBB:A Life Saving Application" by Narendra Gupta, Ramakant Gawande and Nikhil thengadi have proposed the

system that will link all donors. The system will help control a blood transfusion service and create a database to hold data on stocks of blood in each area as data on donors in each city.

### C. Existing system

The present system is ineffective in logging and maintaining all the details of donor's and consumer in a convenient manner. The traditional way of maintaining these details causes errors and results in slow processing. In the existing manual system a lot of time is spent in communicating the information across different blood banks. There is a need for an integrated automated system, which has some centralized control over the entire process. Want lot of time to take action

### D. Proposed system

This system is used to maintain whole information about Blood bank system.

In this project mainly 3 modules are there.

- Admin
- Users
- Blood bank Members

## II. PROBLEM STATEMENT AND SCOPE OF THE PROJECT

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. This application timely updates the information regarding the donors where the administrator accesses the whole information about blood bank management system. Donor will be prompted to enter an individual's details, like name, phone number, and blood group. In the urgent time of a blood requirement, you can quickly check for blood banks or hospitals matching a particular or related blood group and reach out to them through the App. Blood bank App provides list of blood banks in your area large number of blood donors are attracted using an Android application. Since almost everyone carries a mobile phone with him, it ensures instant location tracking and communication. Only a registered person, with willingness to donate blood, will be able to access the service. In this application we are using the GPS technology that will be used to trace the way to the blood bank. The user will get the route to reach the desired location and he won't have to ask manually, therefore time can be saved.

### III. MISSION AND VISION OF THE PROJECT(OBJECTIVES)

Blood Bank Management system is a browser based system that is designed to store, process, retrieve & 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 to manage in a better way. Aim is to provide transparency in this, make the process of obtaining blood from a blood bank hassle free and corruption free and make the system of blood bank management effective. 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.

### REFERENCES

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