

## E-Blood Bank

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**Abstract**— E-Blood Bank is an associate work that brings interested blood donors and those in need of blood on to a common platform. The mission is to fulfill every blood request in the country with a promising android application and motivated individuals who are willing to donate blood. Entire communication takes place via App through message .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 Donor will be prompted to enter an individual's details, like name, phone number, and blood group. By using android App in urgent requirement the needy person get fulfill his requirement of particular blood groups blood from blood bank and hospital. Blood bank App give list of blood banks in your area. A large number of blood donors are attracted using an Android application. In this application we are using the GSM technology that will be used for communication. In existing blood bank system the blood bank manages the database and it takes much time for the donation of blood to recipient .we are proposing the system in which we are providing a link with help of message alert system.

**Key words:** Blood Bank

### I. INTRODUCTION

Blood saves the life. The main aim of this project to save life of people by providing blood. E-blood bank system using android is developed so that user can view the information of near by hospitals, blood banks.

E-Blood Bank tries to assist victims/patients/those in want of blood. It is an endeavor to achieve dead set these people in want of blood and connect them to those willing to donate. Blood bank, patient/donor. We have provided security for authenticated user as new user have to register according to their type of perspective and existing user have to login .

Barrier by providing a direct link between the donor and the recipient by using low cost and low power ARM-7 kit. It requires 3.3V power supply only. The world's most popular & fastest growing mobile platform. The proposed work aims to overcome this communication .Android powers hundreds of millions of mobile devices in more than 190 countries around the world. It's the largest installed base of any mobile platform and growing fast every day another million users power up their Android devices for the first time and start looking for apps, games, and other digital content.

Android gives you a world class platform for creating apps for Android users everywhere.

### II. LITERATURE REVIEW

1) 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 through a to health sector where a quality of the blood is considered for the safety of the patient systematic process by the blood management system.

- 2) In "MBB : A life saving application" by Narendra Gupta, Ramakant Gawande and Nikhil Thengadi [2] 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 . Further more people will be able to see which patients need blood supplies via the application. They will be able to register as donors and patient through a systematic process by the blood management system.
- 3) In "an android application for volunteer blood donors" by Sultan Turhan [3] a smart phones application for the volunteer blood donor to increase the willingness and accessibility with the purpose of providing a continuous blood supply is presented. This application helps health database.

### III. PROPOSED BLOCK DIAGRAM

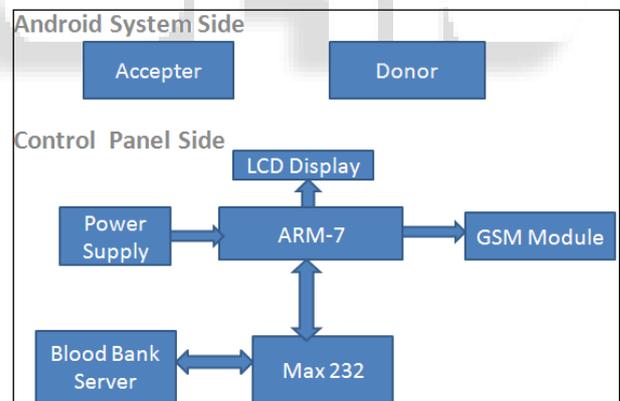


Fig. 1: Block diagram of E-blood bank

The android app will be have two buttons .first there will donor registration form through which the donor will be able to give details like name ,blood group ,weight and contact details the same data will be send to the donor server i.e database through message.

Secondly the another part of app is useful for user who is in actual need of blood through app he will enter name ,required blood group ,quantity ,contact details.

The demand of blood message will be send to the centralized system, the central system immediately connects to the area that particular blood bank and puts a blood request.

If the desired blood is available at the blood bank based on the confirmation from blood bank and the same information is shared with the user who has raise blood demand.

If any blood bank is not having the stock of the demanded blood then the centralized system automatically connects to the donor and filters the donor names of the particular area and request them whether they are ready for blood donation and the system sends the name, contact numbers of those donors who have agreed to donate the blood by message through app.

Thus in very less time the needy person will be able to get the desired blood and the life will be saved.

#### IV. CONCLUSION

Using this project one can get blood within the required time frame with the help of android application.

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