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BLOOD BANK APP

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Abstract— One of the most important components is blood and it is really referred to as the river of life. Where urgent blood is required, there are a variety of emergency situations. We suggested a Blood Bank Automation strategy in this paper using an Android application in which blood inventory can be handled and automated online. In this application, all information about donor-related blood bank management systems is accessed by the administrator. In the emergency situation, you can easily search for blood banks or hospitals, locate the matching of a specific or similar blood group and reach the specific location via the App. We can get a list of blood banks in nearby areas through this app.

Keyword - Android Blood Bank app, Donor, Blood Request.

1. Introduction

Our nation needs approximately 5.1 Crore blood units per year, only a mere 2.5 Crore blood units are available from each. More than 38,100

donations of blood are needed every day. A total of 31 million blood components are transferred every year. More than 1.1 million new people are diagnosed with cancer each year and need blood, often daily, during their chemotherapy treatment. A single car accident can involve up to 101 blood units; the average red blood cell transfusion is approximately 3 pints. The goal of this project is to establish online blood donation information along with the automation of blood banks using the android application and the website.

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A. Main Objectives

- Providing the blood bank with successful donor and blood stock management functions by providing the login feature to monitor and track workflow.
- 2. The current system offers validated and permitted functionality in which only authorised users may access private and confidential information.
- 3. To ensure that the tracking functions for each blood phase are correctly kept track of the blood stock.



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2.LITRATURE SURVEY

The goal is to minimise the amount of time needed to gather multiple blood groups in this paper. Donors record themselves. Donors record. The blood donor can make a request in cases of emergency. In an emergency, the blood bank will alert the donor. The blood bank extracts the blood from multiple blood sources. It also offers updates and notifies the donor or recipient of multiple activities in order to remind the recipient of the coordinated donation camps. The details from local hospitals, blood banks can be used by consumers in this document. This project has three aspects: hospital, blood bank and patient / donor. This project was planned. The authenticated users have been assured that new users must register in compliance with their views and current users have to login. This programme allows you to automatically pick the nearest hospital online via GPS monitoring. This paper also includes a warning mechanism for major injuries, since an ambulance is dispatched to your destination without wasting time using this feature. This application decreases the time taken by blood banks and hospitals for the necessary blood.

In this paper, we change the donor information immediately, as the administrator accesses all of the blood bank administration information. Donors are required to provide information such as name, phone number and blood type of a

donor. In periods of urgent blood demand, blood banks or hospitals belonging to a different blood or similar blood type will easily be tested and accessed using the app. In your region the Blood Bank App lists blood donations and donors. Most blood donors are directed to the application through Android. The programme is only available to a licenced citizen who is passionate towards blood donation. We use GPS technology in this application to chart the path to the blood bank. The user gets the path to the requested location and does not need to query manually, so you can save time. In this paper, we created an effective and secure knowledge and management system for blood donors, based on GIS embedded into the smartphone android programme. The benefit of this method is that it solves problems such as donor inaccurate or incorrect facts, misuse by third parties.

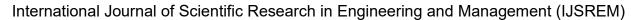
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3. Problem Statement

A manual method is the latest method used by the blood bank. The handling of donor records, blood supply supplies and the specifics of blood demands are complicated with the manual method.

Objectives and goals

- 1. This is the purpose of the online blood bank,
- 2. To strengthen the handling of blood.





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- 3. To solve the issue of blood shortage.
- 4. To supply a tracking position GPS device.
- 5. To offer donor credential uploading service to previous Blood donation.
- GPS is used to easily locate the nearest location through GPS for the User Checking Location.

4.PROPOSED SYSTEM

One of them has to download the application. If the application has been downloaded, one must register as a donor if they wish to donate blood. Some simple information such as name, address, touch, date of birth, blood type, email I d etc. are necessary for registration.

If you've already enrolled, he / she has to log in. The user may also order the blood needed by providing some small explanation. This request shall be sent to the administrator who approves or refuses the proposal. Accepted demands are made public by the admin. Victims can search local hospitals and blood banks by using GPS. The proposed framework consists mainly of five modules-Admin, Supporter, Acceptor, Device Storage, App.

Admin:-Admin is the person who controls the donor and acceptor-related records. Administrator can change the password, retain information of the donor. Maintain information of the acceptor, change donor data, etc.

Donor:-Each new Donor must register himself. Upon registration, exclusive identity of the donor user ID and password is given. Ach Donor has to fill in all the basic information such as name, date of birth, address, gender.

Acceptor:-Acceptor is the one who wants blood for someone linked to him or her. The prescription for blood may be made via the application and the database according to their blood type and criteria.

Device Database:-It holds all required and relevant information relevant to the donor, the recipient and the patient. There will be an ability to upgrade user-related software that can monitor and handle information.

Blood Donor App:-An smartphone app for blood requests by testing blood supply in various blood banks and blood donations. It is also used to search banks and hospitals nearby.



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5.RESULTS



Fig: start App

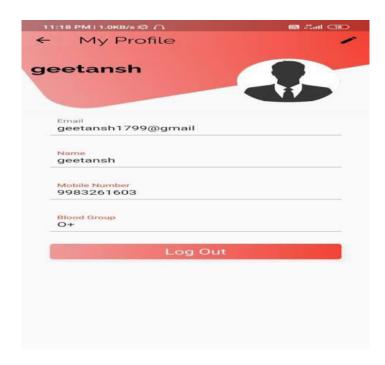
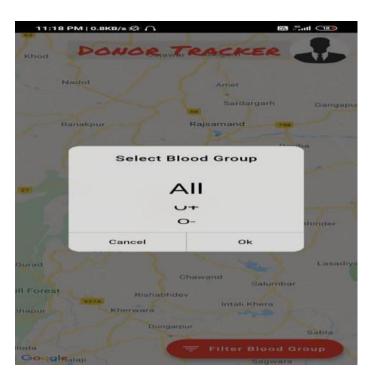


Fig: Home page



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Fig: filter blood group

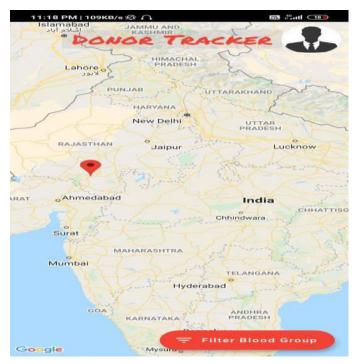


Fig: location

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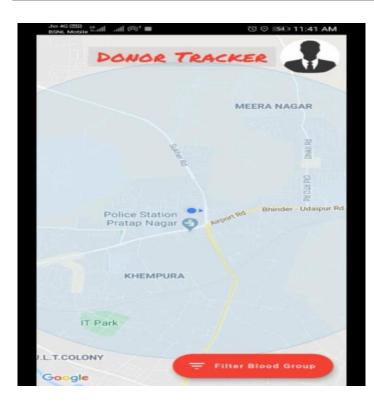


Fig: Donor Location

6.CONCLUSIONS

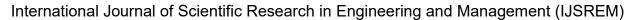
The aim was to create a method that eliminates the time it takes for donor information to be obtained. For the one in need of blood, our suggested method offers a simplified route. Proposed blood supply scheme by searching the nearest blood storage organisation and the nearest donor as soon as possible. Even the donor donated the blood, since that donor provided the blood, and the donor got a good deal.

7.ACKNOWLEDGMET

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8.REFERENCES

I. M. Geetha Pratyusha, P.V.V.N.D.P. Sunil , K. Tejaswi, P. Kanakaraj, Y.Ramya Sree Raspberry-Pi Based Embedded Blood Donation Application International Journal of Innovative research in Science, Engineering and Technology Vol. 5, Issue 4, April 2016.





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II. "Blood donor tracker by using GPS"International Journal of Innovative Studies in Sciences and Engineering Technology (IJISSET)

III. https://www.hawthorneattheridge.com/new s.aspx