

Android Blood Donor-Receiver Contact Forum Application.

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1st Ayush Sharma

dept. of Electronics and Telecommunication.
Sardar Patel Institute of Technology.
Mumbai, India
ayush.sharma2@spit.ac.in

2nd Suraj Sarje

dept. of Electronics and Telecommunication.
Sardar Patel Institute of Technology.
Mumbai, India
suraj.surje@spit.ac.in

3rd Sara Sheth

dept. of Electronics and Telecommunication.
Sardar Patel Institute of Technology.
Mumbai, India
sara.sheth@spit.ac.in

Abstract—Blood may be a saver of all existing lives just in case of emergency wants. The task of bank is to receive blood from varied donors, to watch the blood teams info and to send the desired blood throughout the necessity to the hospital just in case of emergencies. the matter isn't scant variety of donors, however finding a willing donor at the right time. we wish to make a network of individuals United Nations agency will facilitate associate degree other throughout an emergency. This application timely updates data—the knowledge—the data concerning the donors wherever the administrator accesses the total information concerning bank management system. Donor are going to be prompted to enter a personality's details, like name, signaling, and blood group. within the pressing time of a blood demand, you'll be able to quickly check for blood banks or hospitals matching a particular or connected blood type and reach intent on them through the App. bank App provides list of blood banks in your space. an oversized variety of blood donors square measure attracted mistreatment associate mechanical man application. Since nearly everybody carries a portable with him, it ensures instant location trailing and communication. solely a registered person, with willingness to gift blood, are going to be ready to access the service. during this application we have a tendency to square measure mistreatment the GPS technology that will be accustomed trace the thanks to the bank. The user can get the route to succeed in the specified location and he will not have to raise manually, thus time will be saved.

Index Terms—Android Studio, Blood Donor- Receiver.

I. INTRODUCTION

Blood is a specialized bodily liquid that delivers necessary substances to the body cells such as nutrients, oxygen, etc. Blood banking is a bank of blood or blood components, gathered as a result of blood donation, stored as well as preserved for later use in blood transfusions. Adding to it, 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 a lack of interrelationship in form of a networked database among the blood banks which leads to the lack of knowledge of updated records 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 emergencies. In this Android app one will get clear access to blood in real-time and right place

II. LITERATURE SURVEY

A. (i) *The Optimization of Blood Donor Information and Management System by Technopedia.*

Blood saves the life of all existing lives in case of emergency needs. P. Priya, V. Saranya, S. Shabana, Kavitha Subramani has proposed an extended web application to timely update the information regarding the donors, acceptor and patients where the administrator access the whole information about the blood bank management system. Also, the proposed work has security which basically protects the contact details of the donors in an application where it can be misused by third parties. It helps in maintaining the amount of each available blood groups, if the stock of a blood group is lesser than the required amount then the proposed method notifies or aware the donor to donate blood. In addition to web application, an android mobile application is proposed to search the donors who are available near to individual during the emergency cases such as accidents. The android application is readily scalable, efficient to meet the complex need of a blood bank that is key facilitators for the healthcare sector.

B. A Survey Paper on E-Blood Bank and an Idea to use on Smartphone.

Blood is a crucial aspect of all living things. It proves to be a lifesaver component in case of emergency requirements. None of the online blood banks offers direct contact between donor and blood bank. This is the major drawback of the existing system. Existing systems are time-consuming; require more manpower and it is costly. Tushar Pandit, Satish Niloor, A.S. Shinde have introduced a comparison between the systems existing and the systems that are improved. The innovative idea will improve the existing system and it will move from a conventional desktop system to a mobile system. E-blood bank is an integrated blood bank automation system. The main purpose of E-blood the bank is to interconnect all the blood banks into a single network, validation, storage, and circulation of various data and information by using technology. The data which is stored on the computing devices will help the Individual for easy access to the blood availability status in blood banks on fingertips so that he can place a request or notify a particular blood group in nearby blood banks to save a valuable life.

C. Blood Bank Management Information System in India

Vikas Kulshreshtha Research Scholar, Dr. Sharad Maheshwari has introduced the review of the most features, merits, and demerits provided by the prevailing Web-Based data system for Blood Banks. Blood is universally recognized because of the most precious element that sustains life. It saves innumerable lives across the planet in a variety of conditions. A bank may be a place designed especially for the storage of blood products. The term "blood bank" refers to a division of a hospital laboratory where the storage of blood products occurs and where proper testing is performed to scale back the risk of transfusion-related events. Large coolers hold these products at a continuing temperature and that are available at a moments notice. The bank management information system offers functionalities to quick access to donor records that are collected. It monitors the results and performance of the blood donation activity such relevant and measurable objectives of the organization are often checked. They are providing an efficient look for who needs the blood in their own city as fast as possible.

D. (ii) Existing System:

E. Blood Connect:

No one can manufacture blood in factories; it can only come from generous donors. To cater to this demand, Blood Connect was launched on 1st April 2010 (as a project under NSS IIT Delhi) with an unparalleled the objective of solving the problem of blood shortage in India. According to WHO data, India faces a shortage of 3.65 million blood units. This shortage can easily be eliminated if only an additional 2.35 make this possible, Blood Connect acts as a channel connecting voluntary blood donors with those who need blood. It is an organization which is run by youth and provides free help and especially works to target the needy. Since its

inception, the organization has grown a lot in terms of working for this cause. Blood Connect has developed a The 360-degree solution to the problem of blood shortage. The model revolves around 4 focal points: Ensuring continuous, sufficient blood supply to the blood banks Improving awareness Helping those in need Establishing a network of youth

F. E- Blood Bank:

This application helps you find people donating blood in your area. You can contact them through phone number or email address. You can see the location of the user on the map and if register yourself with App, you can get a push notification in case your blood group matches the need for blood. You can find nearby hospitals and access them. Features: Find a donor with your specific blood group and with your respective states and cities. Send notification: This will help you know whom all are having the same blood group in your local area. Find nearby hospitals in maps. Provided helpline numbers in case of emergency.

III. PROPOSED SYSTEM

User has to install the application. After installing the app, registration appears. For registration basic details like name, address, contact, blood group, email id etc are required. If the person has already registered once, then he/she has to login. If he does not remember his password he can click on Forgot password button which sends SMS containing his username and password to the number registered earlier.

Block diagram

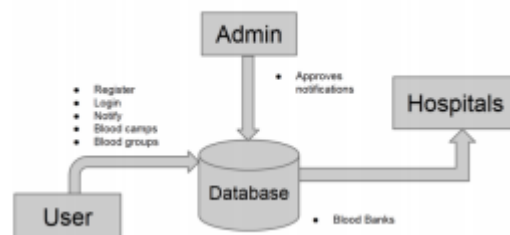


Fig. 1. PROPOSED SYSTEM BLOCK DIAGRAM.

IV. METHODOLOGIES

A. Android Studio

Android Studio is that the official integrated development environment (IDE) for mechanical man app development, based on IntelliJ plan. mechanical man Studio is meant specifically for mechanical man development. it's offered for transfer on Windows, mackintosh OS X and UNIX, and replaced as Google's primary IDE for native mechanical man application development. mechanical man Studio offers versatile Gradle-based build system, code templates to assist you build common app options, made layout editor with support for drag and drop theme redaction, constitutional support for Google Cloud Platform, creating it straightforward to integrate Google Cloud Messaging and App Engine and far additional. Android

Studio options a replacement and improved interface design perspective wherever you'll be able to read the interface you are performing on and its connected parts. Android Studio provides variety of program tools to assist you with making layouts, implementing vogue themes, and building graphic or text resources for your app. The mechanical man build system is that the toolkit you utilize to create, test, run and package your apps. The build system will run as Associate in Nursing integrated tool from the mechanical man Studio menu and independently from the statement.

B. PHP

PHP may be a server-side scripting language designed for net development however conjointly used as a all-purpose programming language. it's accustomed produce dynamic net pages, or websites that update and show data depending on the user's activity. PHP code is taken by an internet server with a PHP processor module, which generates the ensuing net page: PHP commands are often embedded directly into associate degree markup language supply document rather than vocation associate degree external file to method knowledge. . PHP can be deployed on most net servers and conjointly as a standalone shell on virtually each software system and platform, free of charge. There area unit four major benefits once victimization PHP: accessibility, compatibility, simplicity and in depth community support. as a result of PHP is open supply, access has no restrictions. Programmers inquisitive about victimization PHP only ought to transfer the scripts, while not paying one cent. Session support in PHP consists of how to preserve certain knowledge across sequent accesses. this permits you to build a lot of customised applications and increase the appeal of your information processing system. PHP is intended to figure well with the net, and then things like accessing the GET and POST and dealing with HTML and URLs ar built-ins within the PHP language. This makes it extremely crisp and easy to form a website. Any text editor is utilized in order to code PHP like Notebook++, jEdit, Emacs, Bluefish, or maybe simply pad of paper. Since PHP doesn't use a great deal of a systems resources in order to run, it operates a lot of quicker than alternative scripting languages. once used with alternative software package, PHP still retains speed while not deceleration down alternative processes.

C. MySQL

MySQL is Associate in Nursing open supply electronic database management system (RDBMS) supported Structured source language (SQL). A information base electronic database —on-line database computer database electronic information service stores data in separate tables rather than golf shot all the info into one giant repository. The tables ar coupled by outlined relations creating it possible to mix knowledge from many tables upon request. MySQL runs on just about all platforms, together with Linux, UNIX, and Windows. though it will be employed in a large range of applications, MySQL is most frequently associated with web-based applications. MySQL is incredibly straightforward to US. With solely

many easy statements, you'll be able to build and move with MySQL. MySQL is climbable because it will handle any quantity of knowledge, up to the maximum amount as fifty million rows or a lot of. MySQL is incredibly friendly to PHP, the foremost appreciated language for internet development. MySQL supports sizable amount of embedded applications which makes it terribly versatile.

V. IMPLEMENTATION

A. Splash Screen

This page is the starting screen of the application which remains until 2500 msec on mobile screen and later promotes screen to next screen.



Fig. 2. Splash Screen.

B. Login screen

The first time users may click on sign up button and get registered themselves with basic information mentioned on registration paragraph while the already registered user can login and continue to make request or search donors.

C. Registration

This screen appears after sign up button so we have submit all the details asked here which will be visible to public.

D. Home Screen

This screen helps the user to navigate to either for blood donors available according to city and blood groups or to make specific requests which is shown on next screens.

E. Make Request Screen

Here, we can request so in message we can write all the eligibility of the type of the blood required with an image upload section to upload images from mobile phone's gallery.

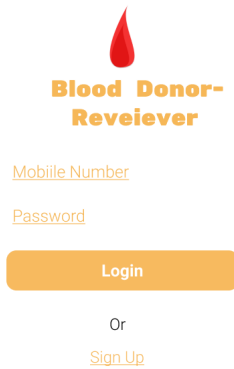


Fig. 3. Login Screen.

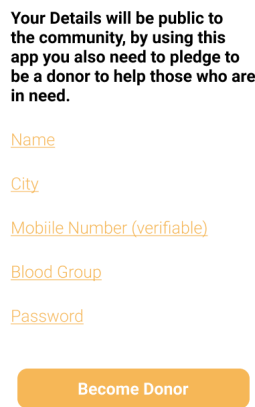


Fig. 4. Registration Screen.

F. Search Screen

Here on click search logo on home screen this search screen appears in which the city and blood group is required to search the results which is shown in next subsection of search results subsection.

G. Search Results

So in this the number of users from mumbai with particular blood group's are appearing as a result of the search done it shows the donors available.

CONCLUSION

The future work for this application is to develop this application in iOS platform. We have proposed an android blood application. The wireless internet technique enables the

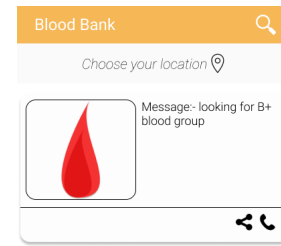


Fig. 5. Home Screen.



Fig. 6. Request Screen.

flow of information to be rapidly and conveniently. The service provided by the proposed system is valuable to health sector . The donor will get registered through these system. In case of requirement the blood donor can place a request.

REFERENCES

- [1] T.Hilda Jenipha*1 R.Backiyalakshmi*2, "Android Blood Donor Life Saving Application in Cloud Computing". Department of Computer Science and Engineering, PRIST University, Puducherry, India. e-ISSN : 2320-0847 p-ISSN : 2320-0936 Volume-03, Issue02, pp-105-108. Year 2014.
- [2] Vikas Kulshreshtha, Dr. Sharad Maheshwari, "Blood Bank Management Information System in India". International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 Vol. 1, Issue 2, pp.260-263.
- [3] Tushar Pandit, Satish Niloor and A.S. Shinde, "A Survey Paper on E-Blood Bank and an Idea to use on Smartphone". Dept. of I.T Sinhgad Academy of Engineering, Pune, India. Year 2015.

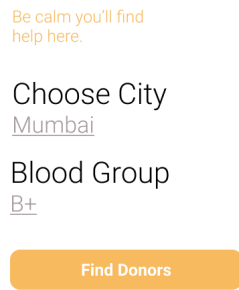


Fig. 7. Search Screen.

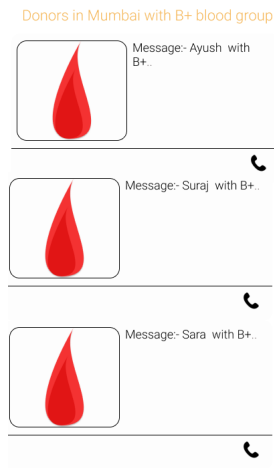


Fig. 8. Search Results Screen.

- [4] . P. Priya¹, V. Saranya², S. Shabana³, Kavitha Subramani⁴, "The Optimization of Blood Donor Information and Management System by Technopedia". Department of Computer Science and Engineering, Panimalar Engineering College, Chennai, India, Volume 3, Special Issue 1, February 2014