A Review On Blood Donation Application

Monali Hire, SKN Sinhgad institute of Technology and Science, Lonavala , India,

monalihre61@gmail.com

Siddhi Shelar, SKN Sinhgad institute of Technology and Science, Lonavala, India,

siddhishelar88@gmail.com

Akanksha Jadhav, SKN Sinhgad institute of Technology and Science, Lonavala, India,

akankshajadhav2529@gmail.com

Abstract - The project Blood Donation Application is a real-world application based on Android. This application provides facility to acquire the help during emergency. We are focusing on developing Real world Application. Application aims to be helpful to the users as per their convenience. Blood Donation Application, it is the application through which user will get the help according to the priority. We are going to add the mobile numbers for example In case of any blood issue user can directly search the blood availability.

In case of Medical issue related blood user can take the action according to his situation. Likewise we will add some other features to become a helping hand for user. Most importantly what matters the most? Obviously the answer is Blood Donors and Who have need of the Blood so, we will provide option to the donors and user to add their contact number so that in case he wants to directly call and user can call. Also with this features we'll add map. Blood donors are being sent maps of the journey their blood has taken to a hospital. The maps are being created through Google Maps and sent out to donors via email, when their blood is issued. The maps show which hospital received the blood and where it was processed. People that are not able to see can open application by themselves as they have already knows most of the time that how to handle mobile but they don't know how to use applications because they are physically challenged.

It has the functionality of sending the required number by SMS to the users' number as well as via mail by providing the respective mail id. It also includes the feedback form service for any queries and will be answered through SMS. The moto of the application is *"Blood Donation Costs You Nothing, But It Can Mean The World To Someone In Need ".*

Keywords — Blood Bank, Donors, Recipients, Availability.

I. INTRODUCTION

The Main aim of this project is to spare existences of individuals by giving blood. A Blood donation seek App utilizing Android is grown with the goal that clients can see the data of close-by Donors. Our task is created on two point of view for example patient and benefactor

A. OVERVIEW

The project **"Blood Donation Application"** is a real-world application based on Android. This application provides facility to during emergency . Its primitive objective is to help the users during emergency.

B. MOTIVATION

Helping others is the one way of solution where satisfaction comes into life. The project is based on help where it has touched the line "Blood Donation". Our main motive is to give response to the request sent by the users on application.

II. OBJECTIVE OF LITERATURE SURVEY

- Help people to get emergency help.

- Help people to give them blood to select which help (type of blood) they need.

- To provide user's convenience.

III. METHODOLOGY

The Software application Blood Donation Application is the application which establishes it users facilities through programming language ANDROID. Application allows User's data to be maintained with in software using database. This application displays its functionality. Below is the methodology to develop the real time application called "Blood Donation Application".

When the user visit the "Blood Donation application". On the app we have created options for user. Here if user want to the emergency blood then user needs to click and user will be redirected to the emergency page. Users can give the Feedback and if any Query then they can contact us. About us page is also designed where team member details are displayed.

It was designed to be user-friendly, with a simple and intuitive interface. The app features an easy-to- use interface that allows users to register as a blood donor or receiver, and receive notifications about blood drives and shortages in their area.

The registration process involves providing basic information, such as name, blood type, email, contact information. The app also includes a notification system that alerts users of upcoming blood camp and blood drives in their area.

IV. RESULTS

As today blood is measure need. When and how the situation gets turning point its unpredictable so to provide help regarding content is concerned with our project. Following are the reasons:

- Increasing diseases towards safety is a measure concern where this application maintains the data that highlights how the help can be adapted.

- This application has interest in helping the users(Who have need of blood) through somehow ways that will protect person.

- The results of the study indicate that the mobile application is a feasible means of promoting blood donation among potential donors.

- The app was found to be user-friendly, and it effectively promotes blood donation by providing relevant information, reminders, and incentives.

V. ADVANTAGES

- When the Peoples visit the "Blood Donation application". The dashboard where people will be able to select the Many Options. In Dashboard there will be options as mentioned in next few points.

- In that Emergency section, It has maintained the accuracy over adding the numbers. In case of security

issue user can directly search the Blood which blood group he want, in case of Medical issue user can take the action according to his situation.

- Most importantly what matters the most? Obviously the answer is Blood Donors and Who have need of the Blood so, we will provide option to the donors and user to add their contact number so that in case he wants to directly call and user can call.

- It has the functionality of sending the required number by SMS to the users' number as well as via mail by providing the respective mail id. It also includes the feedback form service for any queries and will be answered through SMS.

- The moto of the application is *"to provide blood to save the patients life".*

- It has the functionality of sending the required number by SMS to the users' number as well as via mail by providing the respective mail id. It also includes the feedback form service for any queries and will be answered through mail.

It has the functionality of sending the required number by SMS to the users' number as well as via mail by providing the respective mail id. It also includes the feedback form service for any queries and will be answered through mail.

VI. APPLICATIONS

1. HOSPITAL:

This type of blood donation app is typically designed to help hospital and healthcare centers manage their blood supply.

2. ACCIDENTAL PRONE AREA:

The app may allow users to register as donors and receive request when there is a need of blood in their area.

VII. PROJECT DESIGN

MODULE DESCRIPTION:

- ★ Admin Module
- ★ User Module

ADMIN MODULE:

Admin will register himself/herself and create their account on application. After successful login, admin can add blood details. If they want/have blood they can post it. Admin has right to change his/her password. To login to the application admin need to enter the email and password if already have an account and if you don't have an account you can click on the create profile button. Assuming that you are new to the app you can click on the create profile button which will take you to the signup page of the app

and there you to have to specify your full name, hospital name, email, phone number, password and the confirm password and as you click on the create profile button your account will be created and it will be registered to the database.

- Login
- Change password
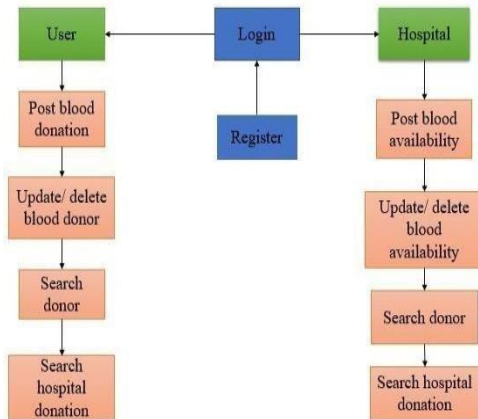- Post blood details
- My Profile
- Log Out

USER MODULE:

User will register himself/herself and create their account on application. After successful login, user can view blood details post by admin. User has right to change his/her password. To login to the application you need to enter the email and password if already have an account and if you don't have an account you can click on the create profile button. Assuming that you are new to the app you can click on the create profile button which will take you to the signup page of the app and there you to have to specify your full name, phone number, email, password and the confirm password and as you click on the create profile button your account will be created and it will be registered to the database.

- Login
- Change password
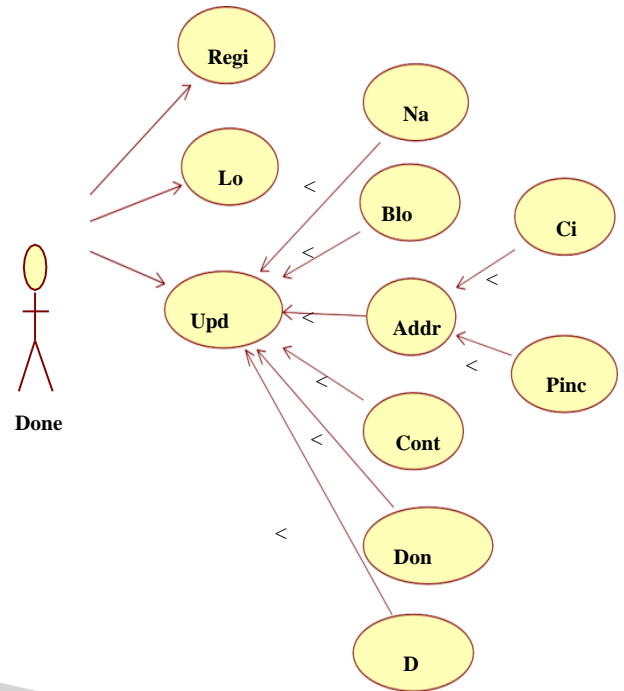- View blood details
- My Profile

FIGURE 1: ACTIVITY DIAGRAM.
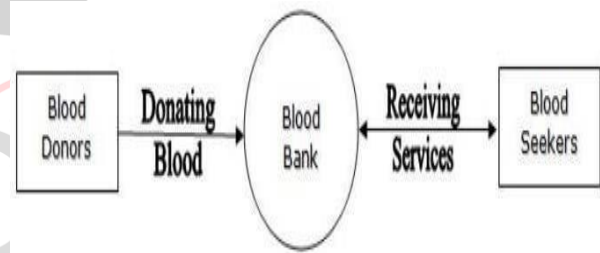

Figure 2: Use case Diagram-Donor
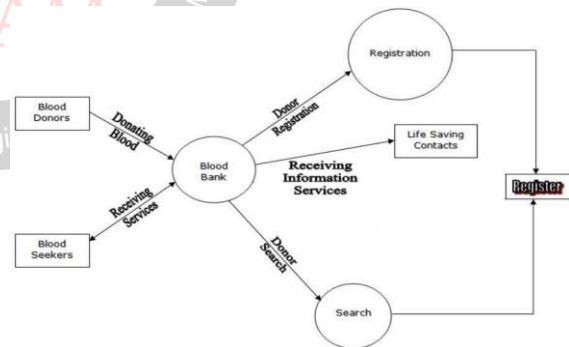

Figure 3: DFD Level 0 Diagram

Figure 4: DFD Level 1 Diagram

VIII. CONCLUSION

This paper reviews efficient and reliable android application for blood bank. When there is urgent need for blood, it may not be possible for people to communicate with the each and every hospital and blood bank. For that the application can fulfill their requirements in short time span so that it can overcome the death rate. Thus the proposed system can help everyone who is need of blood anytime and anywhere. This system not only used for the blood bank automation system but also used for organ

donation system. This system is very helpful for the smart city and smart nation purpose.

REFERENCES

[1] https://en.m.wikipedia.org/wiki/L ANDROID

[2] https://en.m.wikipedia.org/wiki/S

[3] https://en.m.wikipedia.org/wiki/_(front-end_framework)

[4] https://en.m.wikipedia.org/wiki/Java(programming_language)

[5] https://app.diagrams.net/

[6] https://www.visual-paradigm.com/solution/diagramming-tool-on-the-cloud/

[7] https://creately.com/

[8] www.firebase.com

[9] Mobile Application Development book

[10] Borkent-Raven, B., Janssen, M., Poel, C.: Demographic changes and predicting blood supply and demand in the Netherlands. Transfusion 50 (11), 2455–2460 (2010)Cross Ref Google Scholar.

[11] Aide-mémoire. Blood safety. Geneva: World Health Organization; 2002. [17 August 2012]. http://www.who.int/bloodsafety /publications/who_bct_02_03/en/index.html.