B4BLOOD Blood Donation Application

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Abstract: With rapid increase in the usage of social networks sites across the world, there is also a steady increase in blood donation requests as being noticed in the number of posts on these sites such as Facebook and twitter seeking blood donors. Finding blood donor is a challenging issue in almost every country. However, more reliable applications that meet the needs of users are prompted. Here I am proposing new android application named as "B4BLOOD". The main advantage of this application is that the requested person can view the donor (who are available to donate blood) in around 5km range. User can register to donate blood through this app. And also we can request for blood from the app. If the user is not approved by the admin (because of some specific reason) then he can request for blood, as a gust. User can gain rewards by the number of donating blood through this application. GPS facility is used for tracking the location of donor. Modules are as follows. Admin, User, Guest, Hospital

Keywords: Blood donation, B4BLOOD

I. INTRODUCTION

Today in the developed world, most blood donors are unpaid volunteers who donate blood for a community supply. In some countries, established supplies are limited and donors usually give blood when family or friends need a transfusion (directed donation). Many donors donate as an act of charity, but in countries that allow paid donation some donors are paid, and in some cases there are incentives other than money such as paid time off from work.

There is an expectation that the blood will always be there when it is really needed. Blood donor volunteers constitute the main supply source in an effective blood supply chain management. They feed blood stocks through their donation. In an emergency situation, if the stocks are insufficient, the only source of blood supply will be the people who come to the health center and donate the blood on a voluntary basis. It is certain that time is a very important component in such situation. For this reason, the health care center should call the nearest available donor in order to ensure to get the service as quickly as possible. A smart phone application is developed to facilitate the identification of the nearest available blood donor volunteer and the communication with him/her in the emergency situations where the blood can"t be supplied through the blood banks" stocks.

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II. BACKGROUND

Technologies used in this Project:

- **PHP**: PHP (Hypertext Pre-processor) is a server-side scripting language designed for web development but also used as a general-purpose programming language. PHP is a widely used open source general purpose

scripting language that is especially suited for web development and can be embedded into HTML. Instead of lots of commands to output HTML, PHP pages contain HTML with embedded code that does something. The PHP code is enclosed in special start and end processing instructions <? php and ?> that allow you to jump into and out of PHP mode.

- What distinguishes PHP from something like client-side java script is that the code is executed on the server, generating HTML which is ten sent to the client. The client would receive the results of running that script, but would not know what the underlying code was. You can even configure your web server to process your entire HTML file with PHP, and then there really no way that users can tell what you have up your sleeve.
- **ANDROID:** Android is a mobile operating system developed by Google, based on a modified version of the Linux kernel and other open source software and designed primarily for touch screen mobile devices such as smart phones and tablets. In addition, Google has further developed Android TV for televisions, Android Auto for cars and Wear OS for wrist watches, each with a specialized user
- **Interface**. Variants of Android are also used on game consoles, digital cameras, PCs and other electronics.

III. EXISTING SYSTEM

A) How it Actually works

In this section, we will discuss the existing system and some of their drawbacks which force us to plan this whole idea of developing online Blood bank management system. Let us take an example:

Suppose there is some patient who needs blood urgently then how you come to know about this condition, you will not even able to reach to the patient. People will go from one blood bank to another to get the blood which is time consuming and sometimes not able to reach at the time. In some blood banks, sometimes we get the blood but that is not sufficient so we need to search for another blood bank for more blood. If some person wants to donate the blood he/she need to come to the bank and need to fill the form, then the first doctor will check his blood group after that he will allow donating.

B) Drawbacks of the Existing System

- Time Consuming Process.
- There may be change of violation in authenticity.
- May be the date of need is expired

IV. PROPOSED SYSTEM

A) How it Actually Works

The proposed system is designed to help the Blood Bank administrator to meet the demand of Blood by sending and/or serving the request for Blood as and when required. The proposed system gives the procedural approach of how to bridge the gap between Recipient, Donor, and Blood Banks. This Application will provide a common ground for all the three parties (i.e. Recipient, Donor, and Blood Banks) and will ensure the fulfilment of demand for Blood requested by Recipient and/or Blood Bank. The proposed system consists of the following goals and has the scope as follows:

a) Goals

- To ease the process of blood donation and reception.
- To improve the existing system.
- To develop a scalable system.
- To be highly available Scope:
- Ensure that all the functionalities of a manual blood bank are covered
- To include all the blood banks at least within a city.
- Make sure the program is simple and easy to use.

b) Advantages of proposed System
1. User friendly.
2. More flexible than existing system.
3. Provide high security features.
4. Less time consuming.

V. RESULTS AND DISCUSSIONS
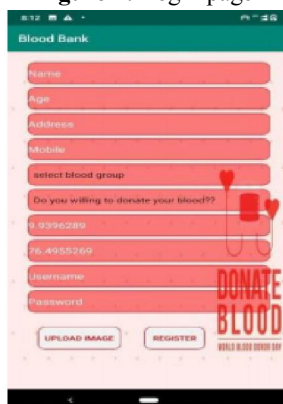

Figure 1: Login page
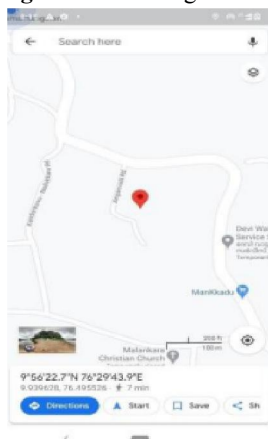

Figure 2: User Registration

Figure 3: Locating on Map

VI. CONCLUSION

B4BLOOD BLOOD DONATION application which provide blood donation services for those who are willing to give blood and those who need blood immediately. This application gave a path to request blood from the hospital blood bank and also for a guest user. Thus the web application there by help people to donate their blood and it make a social commitment and also enhances humanity

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