IJARCCE

ISSN (Online) 2278-1021
ISSN (Print) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

Vol. 10, Issue 4, April 2021

DOI 10.17148/IJARCCE.2021.10454

Donar's Portal

Prof. Mr.Sunil.Sonawane [1]

, Viraj Jagtap[2], Pratiksha Nikalje[3] , Rohit Marekar[4] , Aniket Sable[5]

Lecturer, Dept. of I.T., AISSMS College of Polytechnic, Pune, India 1

Final Year Student, Dept. of I.T., AISSMS College of Polytechnic, Pune, India[2]

Final Year Student, Dept. of I.T., AISSMS College of Polytechnic, Pune, India[3]

Final Year Student, Dept. of I.T., AISSMS College of Polytechnic, Pune, India[4]

Final Year Student, Dept. of I.T., AISSMS College of Polytechnic, Pune, India[5]

Abstract: 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.

Keywords: Smart phone application, Plasma donation information system, optimization, distance calculation, java development platforms

I. INTRODUCTION

There are many websites are available on the internet related with the blood banks but, it is not easy to find out which one is helpful. And security of the user is less. They only show the blood banks available in the area or city. Sometimes it is more difficult to find out the plasma donors & plasma banks; we hardly know one or two. Either we found there are fewer possibilities of availability.

In case of emergencies, it is very hectic for the patient to search for donors. What happens when someone needs plasma, blood, organ & does not understand what to do? For lessen their efforts in search of donors, we are studying a mobile application using Android OS. By using some technologies like OTP, and CAPTCHA, which will help seeker for faster search. The website and Android app helps to find out plasma banks & plasma donors, organ donors, blood donors who are available in that particular area where the user is looking for with their exact locations. For using this application, the user only needs to do is register. "When someone signs donor form, he is signing a lease of life for someone else". The android app will be made is on latest OS for providing great user interface. The propose systems consist of OTP technology to authenticate user for his security point. A user distinctively selects weak passwords. Weak passwords are easy to hack. OTP uses user's permanent mobile number and sends a code by using telecommunication service providers.

II. LITERATURE REVIEW

P Priya, V Saranya, Shabana, Kavitha Subramani, [1 February 2014] has suggested an all-encompassing web android application to opportune & refresh the data with respect to all the contributors, the acceptor & the patients amongst which the manager gets the entire data about the red blood donation center administration framework. Also, the proposed work has enough security, to ensure the contact as the subtle elements of the giveaway/donors for the web android application where it tends to be abused by the outsiders. Likewise, it keeps up the measure of each accessible blood group around, the load of a specific blood, amass lower than the needed sum and then the suggested technique advises the benefactors to give away the blood, not with string web application, an android versatile android app proposed to look through the givers/donors who are accessibly close-by in the amid of the crisis cases, for example, mischances. The electronic android application is promptly adaptable, effective & versatile in order to meet the intricate need of the blood donation center which scratches the facilitators for the social insurance area. A Survey Paper on E-blood Bank and the idea to use it on the Smartphone. The blood is a critical angle for each one of the single living things ends up being to be the life-saving segment event of the crisis necessity. None of the online the blood donation center still offers the immediate contact info among the contributors & the red blood donation center i.e., the givers. This is the real downside of the current framework. Existing frameworks are now tedious; and require more inflated.

This work is licensed under a Creative Commons Attribution 4.0 International License

IJARCCE

ISSN (Online) 2278-1021
ISSN (Print) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

Vol. 10, Issue 4, April 2021

DOI 10.17148/IJARCCE.2021.10454

The optimization of the blood donor information & management system by Technopedia talks about the blood saver of every current life who should arise an occurrence of crisis needs.

Tushar Pandit, Satish Niloor&A.S. Shinde, [2015] has presented examination between the existing framework & the enhanced framework. The new thought can also enhance the current framework & can move from the ordinary work area framework to the portable framework. E-blood donation Centers incorporate the blood 18 donation center computerization framework. The fundamental motivation behind E-donation center is to interconnect all the red blood donation Centers of the region into a solitary system, i.e., an android application oval, stockpiling & flow of different live information & the data by utilizing the calculation innovation. The information which puts away on the registering gadgets can then help the general society for a simple access to the blood accessibility status of the red blood donation centres on finger tips so that he can put out a dam or tell specifically there's a blood Centers adjacent to the blood donation Center spare is a profitable life.

Vikas Kulshrestha Research Scholar, Dr Sharad Maheshwari, [1, MARCH-2015]

has presented an audit of the primary highlights, the benefits & the negative marks given away by the current Web-Based information System for the blood Banks. The blood is all around perceived as one of the most valuable components which continues to life spares on endless lives over the world on an assortment of conditions. The blood donation centres place is structured particularly for a capacity of the blood & the blood items. The term "blood bank" regularly mentions to a partition of a healing centre lab wherever the capacity of the blood android application & where the android application testing is performed to lessen the danger of the transfusion related occasions. Large coolers hold these samples at a steady temperature & they are also accessible at a moment's see. The blood donation centre administration data framework offers functionalities to android application to access the giveaway/donor records gathered from the different parts of the nation. This empowers observing of the outcomes and the execution of the red blood bank action to such an extent which is important & also quantifiable destinations of association which can be checked. They are giving a productive pursuit of who needs the blood based on their very own city as quickly as could be expected under the respective circumstances.

III.PROPOSED METHODOLOGY

Plasma or Blood Donation System is an android based system that is designed to store, process, retrieve and analyse information concerned with the administrative and inventory management within a blood bank. This project aims at maintaining all the information pertaining to blood donors, different blood groups available in each blood bank and helps them to manage in a better way. Aim is to provide transparency in this field, make the process of obtaining blood from a blood bank hassle free and corruption free.

In order to develop the software, we did extensive research on internet and by meeting various doctors, blood banks and market exports in this field. We collect the data from different sources and stored it on centralized server in specific predefined format such that it is readily available for analysing e.g., segregating data as per blood groups, organs etc. and allows updating actual demand of each type.

The app in its current form is available only on the android device.

The app is for two categories of people – donors, who can register themselves and the treating physician/hospital, which can access the data. Once the donor registers, they will have to enter in all their details which include:

1. Name
2. Contact details (e-mail, phone number)
3. Place of residence
4. Upload a copy of your diagnosis
5. Mention if you were symptomatic/asymptomatic
6. Last date on which you were symptomatic

According to the guidelines, a person is eligible to donate plasma fourteen days after they have tested negative for COVID-19 or twenty-eight days after the patient was last symptomatic.

This work is licensed under a Creative Commons Attribution 4.0 International License

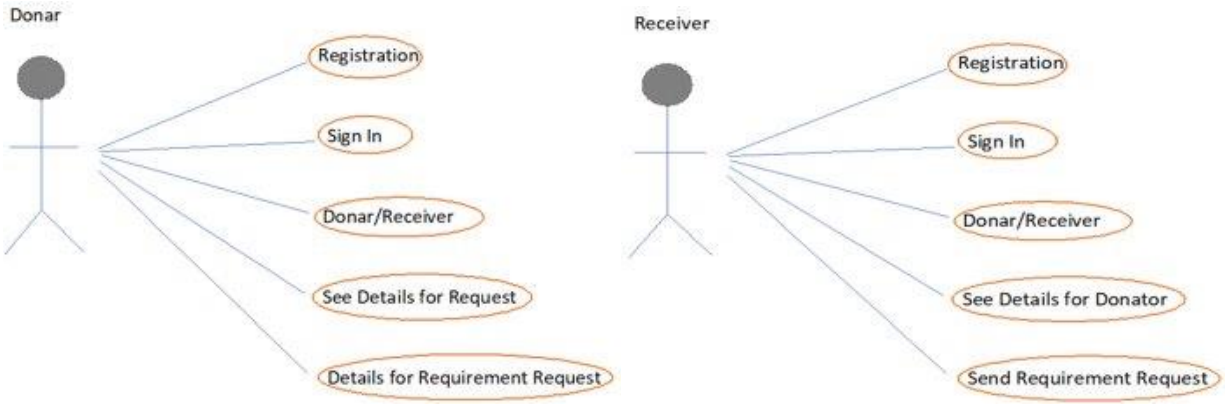
IJARCCE

ISSN (Online) 2278-1021
ISSN (Print) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

Vol. 10, Issue 4, April 2021

DOI 10.17148/IJARCCE.2021.10454



IV. CONCLUSION

The android application for Plasma donation can be used by a lot of people and will help a lot of different communities like the doctors, donors, receivers and other general public. The user can be a blood donor as well as a recipient, this user can use the features of the application. The goal of the application is to provide solution to the existing deficit of plasma, blood, organ and will connect the donors and the receivers who need plasma, blood, organ. This application will solve the current problem that the world is facing, and hence save a lot of lives. This is the solution that we have for the existing problem.

V. FUTURE SCOPE

To bridge the gap between blood banks, hospitals, volunteer donors and needy people, through this system.
To facilitate the search process for needy people and make it easier than before.
To reduce the data entry process.
Some blood types are rare so the system can find the required donors with the required blood type easily from the huge database by using search feature in the android app.
To provide dynamic database that is storing donors Information and can communicate with them easily.

References

[1] The Optimization of Blood Donor Information and Management System by Technopedia P. Priya1, V. Saranya2, S. Shabana3,Kavitha Subramani4 Department of Computer Science andEngineering, Panimalar Engineering College, Chennai, India1, 2, 3, 4

[2] MBB: A Life Saving Application Narendra Gupta1, RamakantGawande2 and Nikhil thengadi3 1, 2, 3 Final Year, CSE Dept., JDIET, Yavatmal, India.

[3] AN ANDROID APPLICATION FOR VOLUNTEER BLOOD DONORS by Sultan Turhan.

[4] Arif. M. Sreevas. S. Nafseer. K. and Rahul. R.(2012), 'Automated online Blood bank database', India Conference (INDICON),Annual IEEE, Print ISBN: 978-1-4673-2270-6, pp. 012 - 017.

[4] Spyropoulos. B., Botsivaly. M., Tzavaras. A., and Spyropoulou, P (2009), 'Towards digital blood-banking', ITU-T Kaleidoscope: Innovations for Digital Inclusions, .K-IDI.E-ISBN: 978-92-61-12891-3, Print ISBN: 978-92-61-12891-3, pp.I- 8.

[5] A Survey Paper on E-Blood Bank and an Idea to use on Smartphone Tushar Pandit, Satish Niloor and A.S. Shinde, Dept. of I.T Sinhgad Academy of Engineering, Pune, India.

This work is licensed under a Creative Commons Attribution 4.0 International License