

A Research Paper on Blood Donation Management System

Satvik Dubey¹ and Anurag Dhoka²

Students, Department of Computer Science and Technology¹

Assistant Professor, Department of Computer Science and Technology²

Acropolis Institute of Technology and Research, Indore, India

Abstract: Blood donation and transfusion has been an ever-serious issue and the shortage of blood throughout the world has caused many people to lose their life. The lack of a centralized system for blood donation is majorly responsible for those losses. Now in the era of online and digital processes, the conventional methods of collecting blood are absolute. An automated system is required to manage the centers and to showcase the information to the interested parties. We have developed a website that singlehandedly solves all these issues related to blood donation and reception. We have designed a SQLite database as an integral part of the integrated framework to store historical blood donation data in a centralized database for analytical processing. The proposed system would enable people to register as a donor to make themselves available whenever in need of their blood type. We have introduced a search tab to search available people ready to donate. In our proposed system in the donor registration, health-related details would be updated in the blood management system database for all to see.

Keywords: Blood Donation, transfusion, centralized system, conventional methods, automated system, analytical processing

REFERENCES

- [1] Sibinga CT. Existing and recommended legislative framework for a national blood transfusion policy. Global Journal of Transfusion Medicine. 2017 Jul 1;2(2):89.
- [2] Sinha S, Seth T, Colah RB, Bittles AH. Haemoglobinopathies in India: estimates of blood requirements and treatment costs for the decade 2017–2026. Journal of community genetics. 2020 Jan;11(1):39-45.
- [3] Kulshreshtha V, Maheshwari DS. The blood donation centre Management Information System in India. international Journal of Engineering Research & Android applications (IJERA) SSN.:2248-9622.
- [4] Priya P, Saranya V, Shabana S, Subramani K. The optimization of blood donor information and management system by Technopedia. International Journal of Innovative Research in Science, Engineering and Technology. 2014 Feb;3(1).
- [5] Kulshreshtha V, Maheshwari S. Benefits of management information system in blood bank. International Journal of Engineering and Science. 2012 Dec;1(12):5-7.
- [6] “Android Blood Bank” by Prof. Snigdha1, Varsha Anabhavane2, Pratiksha lokhande3, Siddhi Kasar4, Pranita More5 Lecturer, Information Technology, Atharva College of Engineering, Mumbai, India 1 Student, Information Technology, Atharva College of Engineering, Mumbai, India 2,3,4,5
- [7] “A Study on Blood Bank Management System” by A. Clemen Teena, K. Sankar and S. Kannan, Department of MCA, Bharath University, Selaiyur, Chennai-73, Tamil Nadu, India
- [8] Gupta N, Gawande R, Thengadi N. MBB: A Life Saving Application. International Journal For Research in Emerging Science And Technology. 2015 Mar;2(1):326-30.
- [9] Ekanayaka EM, Wimaladharma C. Blood bank management system. Technical session-computer science and technology & industrial information technology. 2015 Jan 29;7.
- [10] Esah, P., & Ab Rahman, S. (2011). Blood Bank Management System.
- [11] A Survey on Blood Bank Management System Prof. Animesh Tayal, Harshad Gahare ,Akshay Patel,Sagar Jog Pratik Jain ,Jaya Dhawale Department of Computer Science & Engineering S. B. Jain Institute of Technology, Management and Research, Nagpur

