REVIEW ON BLOOD BANK MANAGEMENT SYSTEMS

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ABSTRACT

Blood is present in every human but sometimes they needed it from outer sources and if they don't get that in time then it may cost a life. To overcome this problem blood bank management systems are introduced. These systems store data of blood donors and as well as blood stored different blood banks and hospitals. So that whenever blood is required they can get access to blood easily.

Keywords: Online blood donation, Online blood requesting, maintain database.

I. INTRODUCTION

As we all know about value of blood so now its became very important to fulfill its need when its required in the minimum possible time. So now with the help of these blood bank systems it will be easy to find blood and its product in near by areas. These systems also update the data time to time so that there will be no mistake.

In blood bank management systems there is a database which have all information of blood donors and blood banks so whenever any receiver wants blood then the system checks all compatible blood availability in the database and works according to that. This (Fig.1) is a example of a normal blood bank management system. The below figure is just showing working of a normal system but many researchers made many advancement in their own systems to make this process more easy and more efficient. I have seen many different kind of systems and from them a few are explained in this paper.

II. LITERATURE SURVEY

In literature survey some of the projects are explained. All these projects are on blood bank management systems means how to manage blood banks how can a recipient can access to blood more easily then previous old traditional methods.

Many peoples try to improve blood bank working in their own ways and these are some them.

a. In “Short message service (SMS) based blood bank” by G. Muddu Krishna & S. Nagaraju(2016)[1], They proposed a system in which services of blood bank will be accessed via SMS. If someone needed blood then
they have to request for blood via SMS and then packet count module of their system will check for availability of blood and response will be given by data processing module.

b. In “Automated online blood bank database” by Muhammad Arif; S. Sreevas; K. Nafseer; R. Rahul (2012)\(^2\). They come up with direct call routing technique by using asterisk. In this every blood bank consist of a database and that will be managed by central server. When someone in need of blood call on their toll free no. they will directly get connected to a donor and after receiving blood from that donor name of that donor will be kept on hold for 8 weeks.

c. In “Benefits of management information system in blood bank” by Dr. Sharad Maheshwari and Vikas Kulshreshtha \(^3\). They discuss about the beneficiaries of the blood bank management information system. They show advantages and benefits of these systems.

d. In “MBB: A life saving application” by Ramakant Gawande; Narendra Gupta; Nikhil Thengadi \(^4\). They come up with a system to link all donors and help in controlling blood transfusion process. Their system will also maintain database which hold data of donors and blood according to their city and further by their locality.

e. In “Blood donation and life saver: blood donation app” by Anish Hamlin M R; Albert Mayan J \(^5\). They introduced a system where when someone wants blood they login into their app and by GIS they can get details of near by blood donors. They also can donate blood by registering themselves.

f. In “Android blood bank” by professor Snigdha, Pratiksha Lokhande, Siddhi Kasar and Pranita More\(^6\), came up with an android app in which updates information about donors time to time and also it shows all the blood banks near to user location. In this admin controls and have all information of the app.

g. In “A study on blood bank management system” by A. Clemen Teena, K. Sankar, S. Kannan \(^7\). They made a system through which they can manage information about donors and patients. So that whenever blood is needed they can use this information as blood bank authorized officers have access to this information.

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<td>2.</td>
<td>Automated online blood bank database by Muhammad Arif, S. Sreevas, K. Nafseer and R. Rahul</td>
<td>Contact donor via Toll free no.</td>
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<td>3.</td>
<td>Benefits of management information system in blood bank by Dr. Sharad Maheshwari and Vikas Kulshreshtha</td>
<td>compare between all existing Blood bank management systems</td>
<td>Talks only about advantages</td>
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<td>4.</td>
<td>MBB: A life saving application by Ramakant Gawande, Narendra Gupta and Nikhil Thengadi</td>
<td>To link all Donors and help controlling in blood transfusion process</td>
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<td>5.</td>
<td>Blood donation and life saver: blood donation app by Anish Hamlin M R and Albert Mayan</td>
<td>Login in app and get information of blood donors</td>
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<td>6.</td>
<td>Android blood bank by Professor Snigdha, Pratiksha Lokhande, Siddhi Kasar and Pranita More</td>
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Now we have many researches on blood bank management there are many different ways to help people by technology as these systems are example of that. But as we can see there are many options available to get blood but still many peoples can’t get blood in required time. Most of the blood bank management systems works only for regular blood groups not for special blood groups like ‘HH’ and most of them don’t have centralized form of systems. Some of them works only for donors and some of only for blood banks but a blood unit have major three resources donors, blood banks and hospitals. So it is necessary to make a system which combines all these three units into a system and create a database which have record of all blood units in hospitals, blood banks and as well as all donors who wants to donate blood.

IV. REFERENCES


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


[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