

BLOOD BANK MANAGEMENT SYSTEM THROUGH ONLINE

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Abstract-The title of the project is “**BLOOD BANK MANAGEMENT SYSTEM THROUGH ONLINE**”. In this paper we focus on systems that can support health care in the very challenging aspects where the large majority of the world’s population reside. Data will be hosted in the Internet and medical staff, donor and needy can find it wherever and whenever they want. Application is made for Blood Bank Management System for providing fast service blood at the notify message. Alike in many countries, India is facing a deficiency of blood donors. If more eligible donors arise for donating the blood, the difficulties could be lessened. This online application is the beginning to assist people to reach the right blood donor at the right moment. It instantaneously connects a large group of blood donors in the locality with those who are in urgent need of blood for their companions and relatives.

Introduction In many different situations like in anaemia and accidents, there could be a crucial requirement for a particular blood group. As compared to the percentage for which the blood is required, very less number of people donate the blood, hence the need for the blood increases. Donating the Blood and Blood Transfusion Services (BTS) is significant for saving the lives of people.

Today’s generation is more depended on advanced technology than any other aspect. Today, most of people use advance technologies in their daily life like Internet and Smartphone. So, the proposal has been mentioned in this paper that will make the process of blood bank system very less time-consuming. The blood Bank Management The system provides services to quick access to donor records that are collected from various regions of the country. It monitors the performance of the blood donation activity such that the relevant purpose and the objectives of the organization can be checked.

The blood bank system consists of various connected blood centres which store, distribute and collect human blood and hospital blood banks charging of transfusion-related services.

During the process of updating and maintaining the data and information on the daily intervals, various errors which are impossible to avoid lead to significant risks in the mentioned procedure of blood donation and transfusion service. Errors at the time of administration of blood or blood components and sometimes the wrong entry of blood groups are the most frequent documented site of error this leads to storage or accumulation of wrong data in the records.

Literature Review

In this work, they have designed and developed an android application known as the blood bank. This application saves the lives of many people who need blood. People can search the nearest blood banks centres and volunteer donors who have registered. It is a slow procedure to search blood groups by manual process. This application helps to check out the available blood groups in the blood banks and also search the donors from the place where we are. It saves many lives during emergencies.

The study has expanded to an online platform which has made the bridge between the blood receivers and the blood donors during the necessity. Based on the Age specifications it enables blood receivers to get more prospective blood contributors within the limits of blood donation criteria. Due to the use of sorting algorithms the more prospective contributors are registered in top rows of the result table which helps in the selection of blood donors by the blood receivers.

The aim was to establish the system which will save the time which is required to gather the donor details. Their proposed system provides an easier method for the one who is in urgent need of blood.

The proposed system focused to supply the lifeblood as immediately as possible by searching the nearest blood bank centres and nearest blood donors. Also, when the blood donor requires the blood the concession is given to such person.

They have proposed such a system which will be different and one step ahead as compared to the other blood donation systems. Blood receivers can communicate the blood donor directly by using this system. An algorithm was proposed to find the appropriate donor based on the blood type and location.

Problem Statement

Like many countries, India is facing a deficiency of blood donors. Its focus on systems that can support health care in the very challenging aspects where the large majority of the world's population reside. This online application is the beginning to assist people to reach the right blood donor at the right moment.

Goals And Objective

- Access from anywhere of the world
- Access at any time
- Quick Search
- Better Communication
- Optimize to Volunteer
- Time Optimize
- Cost Optimize
- Easy to handle patients record's
- Information on the donors' stores permanently
- The software reduces paperwork
- A patient does not need to wait in a long queue

Stakeholders

- System Owner
- System Users
- Administrators
- Staffs of Blood Bank
- Public

Data

1.Data about Donor and recipients

- Donor/ Recipient Id Name
- Date of Birth
- Gender
- Blood Group

- Address
- Contact Number
- Email Address
- Diseases (if any)
- Blood Id
- Event Id

2.Donation program

- Organizer
- Event Id
- Date of Donation
- Venue
- Volunteers
- Amount of blood collected

3.Blood

- Blood Id
- Blood Group
- Date of collection
- Expiry date

4. Staff

- Staff Id
- Name
- User Name
- Password
- PROJECT APPROACH ROUTE
- Problem Identification
- System Design
- System Building
- Testing and Implementation

MANAGERIAL APPROACH

- Team Building Consideration
- Each of the team members will be given a job
- The work division shall be based on expertise
- The progress shall be synchronized on a weekly basis
- Training requirements
- PHP programming
- AWS Cloud Computing
- Web Designing

Conclusion

In this work, we have proposed an application which is called a blood bank management system. This application saves the life of many people who need blood. The work focusses on creating such application that can be accessible to worldwide and making the application extensible, such that everyone can utilize this application and to make the process fast as many lives will be saved during an emergency with the help of this application. As India is facing a deficiency of blood donors, it will also result in diminishing the death ratio, particularly in India.

References

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