

Web Based Online Blood Donation System

Abstract:

Blood donation is required during an organ transplant, accidents, cancer treatment etc. For blood donation, one needs to check for a donation camp or needs to visit blood bank. The Manual Blood donation system has many disadvantages which includes, it is too time consuming, often leads to error prone results, consumes lot of manpower, lacks donor information, retrieval of data takes a lot of time, percentage of accuracy is less. In the time of emergency, it becomes difficult to approach the right donor. Rare blood groups are not available all the time at all blood banks and recipients find difficulties to track the right blood donor.

There are many blood donation management systems, but these systems only maintain the information of blood banks and donors. The proposed system which not only maintains the information of blood banks, but also maintains information of blood camps which makes blood transfusion process easier. This **ONLINE BLOOD DONATION MANAGEMENT** system maintains the list of blood donors and helps the recipients to track and search the right donor easily. It has two modules namely **Admin** and **User**.

Admins can add hospitals having blood banks and can also add various blood donation camps. He/she can also view the list of donors of a particular area with proper Blood cross match. He/she can also check for blood requests and in case of emergency he/she can send notifications to blood donors as per the requirements.

Users can register and make a request. Users can also register as a donor. Donors can check for Blood camps and hospitals for blood donation and will be getting notifications in case of emergency. They can either accept or ignore it. This project aims at maintaining all information regarding blood donors, different blood groups available in blood banks as wells as blood camps and help them manage in a better way.

❖ **Modules:**

The system comprises of 2 major modules with their sub-modules as follows:

1. **Admin:**

- Add hospital: Admin can add hospitals and blood donation camps.
- View list: Admin can view the list of camps and hospit
- View donors (filter by area & blood group)
- Check Request
- Send notification as per requirements

2. **User:**

- Register
- Create Blood Request
- Register as Donor
- View Camps / Hospital
- View Blood Request (accepts/deny)

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