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Blood Donor: Web Application Based Voluntary Blood Donation

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Abstract: *The demand for blood has become a significant concern in the present context all over the world. In critical or emergency situations where accidents occur or during further treatment and surgery, etc., there is an urgent need for a specific blood group. It is difficult to arrange blood quickly whenever needed. It takes a lot of time to make blood available, and it is inconvenient during an emergency. Some rare blood groups are time-consuming and difficult to arrange. There are many online blood bank databases available, but none of them offers the capability for direct contact between the donor and recipient. In this project, we have proposed an effective way to overcome the problems in the existing system. This system will help the blood requester to find the donors of the requested blood groups in his/her nearby location quickly and protect from any disappointment. The user has to register as a donor on the system. The donor will be prompted to enter an individual's details like name, phone number, blood type, etc. During the urgency of blood, you can quickly check for all the possible contacts matching a particular or related blood group and reach out to them via Phone Call/Message. This proposed solution provides a reliable and efficient method of locating blood donors, especially in distant rural areas where few blood banks are available. For this, we are developing a Web application which is low in cost, convenient, and requires less time to find blood banks and donors.*

Keywords: Blood donation, Blood Donor, Blood Recipient, Web application, Blood Donation Awareness, Smart Blood Management, Blood Request, WhatsApp Alert Message.

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