A Mobile Application for Blood Transfusion in Sri Lanka for Emergency Cases Based on Government Hospitals

KCM de Alwis[#], EMSK Ekanayake, MMNH Bandara and D Ganepola

Department of Information Technology, Faculty of Computing, General Sir John Kotelawala Defence University, Sri Lanka

[#]chamodidealwis@gmail.com

Blood is known as one of the most precious gifts that humankind can give to one another, and the need for blood is most felt when one begs for life from anaemia. In an emergency, the increase in the number of victims is uncontrollable and a victim may need more than 100 pints of blood. In today's challenging environment, a Mobile Application for the transfusion of blood is a great blessing, and the goal here is to find blood donors in the shortest amount of time. This paper is primarily concerned with the transfusion of blood in the shortest possible time in an emergency. The proposed Mobile Application allows blood donors to enter details, including blood type, the location used by Google Maps and contact information. This Mobile application enables hospital staff members to request blood from the donors in an emergency through voice input. Hospital staff can track where the donors are according to their predicted minimum time, and could contact them for blood needs. The hospital should be able to provide transport facilities to solicit accepted donors. This blood transfusion system is crucial in emergency blood distribution, because it allows for central and immediate access to donor data and location from any location. The primary goal of this paper is to maintain a well-informed group of blood receptors that can be used at any given time.

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