

DEVELOPMENT OF AN EMERGENCY WEB-BASED BLOOD BANK DONOR SYSTEM

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ABSTRACT

Hospitals and blood banks provide blood, receive blood from willing donors, store the blood and make it available for use in the event of an emergency. The problems envisaged in this process include; accessing safe blood in an emergency situation and finding a donor who is in close proximity and willing to donate blood. The development of an Emergency Web-based Blood Bank Donor System is capable of synchronizing communication between blood donors, recipients, hospitals, and/or blood banks. The application provides registered users access to request for blood, search for nearby hospitals/blood banks, and also locate nearby donors. The methodology adopted in this work deploys the Incremental Model Development Lifecycle to achieve multiple stand alone modules. The platform for implementing this system uses HTML5, CSS and PHP for web development and PhpMyAdmin for the database. This work will provide a timely and more efficient approach to tackle the urgent need for blood donation in emergency situations.

Keywords: Blood bank, Blood Donor, synchronized Communication, interface system.