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RAKTSETU: Blood Management System

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Abstract: The timely availability of blood is crucial in medical emergencies, yet many regions still face challenges due to inefficient blood donation and management systems. This paper presents RAKTSETU: A Blood Management System, a centralized platform that connects donors, hospitals, and blood banks to streamline the blood donation process. The system enables real-time tracking of blood availability, facilitates emergency blood requests, and notifies potential donors instantly, ensuring rapid response in critical situations. It also includes features for managing blood donation camps, donor profiles, and locating nearby blood banks and hospitals. An interactive chatbot further enhances user experience by assisting with navigation and providing guidance on blood donation and health. By improving communication, transparency, and accessibility, RAKTSETU aims to address the limitations of traditional systems and contribute to a more efficient and life-saving healthcare infrastructure.

Keywords: Blood Request, Blood Donation, Blood Management System, Blood Camp



