

Web Based Blood Bank Management System

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Abstract: *The article demonstrates full coverage regarding the creation of a web-based blood donation system from development to deployment. The system contains front-end and back-end software technologies which work together to enhance the efficiency of blood donation operations. The user-friendly interface of the front end uses HTML and CSS and Bootstrap along with JavaScript to develop a responsive surface which depends on PHP at the backend for trusted database control and backend features. The primary purpose of this system targets a comprehensive platform which enables donor enrollment and quick blood searches together with blood request capabilities. The web-based system retains the core functionalities described earlier while providing an additional security measure for admin log in to properly handle protected donor and patient data. The system enables efficient blood donation management by improving its operative efficiency and information security*

Keywords: Web-based blood donation system, Blood donation management, Front-end development (HTML, CSS, Bootstrap, JavaScript), Back-end development (PHP), Database management, Donor enrollment, Blood search, Blood request, Admin login, Data security, System deployment, Responsive interface, Operative efficiency

