

Blood Bank Management System

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Fourth Year Students Project

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Introduction

Blood donation saves millions of lives

Modern blood bank systems improve:

- Donor experience
- Blood supply management
- Hospital responsiveness

System Users

Three core user groups:

- Admin / Staff
- Donors
- Hospitals

Each with tailored features and tools

Admin / Staff Functionalities

- Login / Logout
- Register donors & hospitals
- Post campaigns & updates
- View blood stock by type
- Manage users & permissions
- View analytics & reports
- Respond to hospital blood requests
- Ensure data security & privacy

Donor Functionalities

- Register & manage profile
- View donation history
- See top donors
- Track last and next donation dates
- Generate QR code post-donation
- Receive reminders
- View campaigns & donation process
- Locate donation centers
- Receive rewards
- Provide feedback
- Access AI assistant
- Subscribe to newsletter

Hospital Functionalities

- Register & manage profile
- See available blood stocks
- Send blood unit requests
- View request history & track orders
- View analytics
- Access AI assistant

Technology Stack

Frontend: HTML, CSS, Bootstrap, Tailwind, React.js

Backend: Node.js

Database: MongoDB

Security: Encryption, access control

Reporting: Charts, Dashboards

Mobile Compatibility

Benefits & Impact

- Enhanced donor engagement
- Faster response to hospitals
- Transparent blood inventory tracking
- Encourages repeat donations
- Leverages modern tech for health impact

Thank You / Q&A

We appreciate your time and attention.

Any questions?