# PIEAS Blood Chapter - Centralized Blood Donation Management Portal

## 1. Blood Availability Dashboard

Live status of available blood groups (e.g., A+, B−, O+). Tags:  Available / ⚠ Low / Urgent

Admins can update manually with timestamps.

## 2. Donor Registration Form (No Login Required)

Mobile-friendly form to collect donor data (e.g., name, blood group, city, last donation date).

Should support Google Forms or embedded surveys.

Auto-save to backend + Excel.

## 3. Smart Blood Request System

Automatically filters donors by required blood group.

Sends alerts only to relevant donors via email, WhatsApp, or dashboard.

Admin can override filters as needed.

## 4. Donor Tracker Panel

Shows name, contact, group, city, last donation date, and days since last donation.

Includes filter by batch, city, group, and activity.

Admin can update or remove entries.

## 5. Request Status Tracker

Top section of portal with  Current Requests,  In Progress,  Completed.

Each request includes location, urgency, focal contact, and timestamps.

## 6. Case Closure Log

Closed requests logged with donor, date/time, patient name, remarks.

Searchable and exportable to Excel for reporting.

## 7. Automated Thank You Emails

System sends automated appreciation emails after donation confirmation.

Boosts motivation and encourages repeat donations.

## 8. Admin Dashboard & Permissions

Admins (OBS/focal persons) can manage all data, approve requests, and control access.

All entries and edits stored with date/time.

## 9. Excel Upload & Graph Generator

Upload Excel in predefined format to auto-generate charts.

Shows group-wise donors, donation frequency, and case stats.

Downloadable for reporting.

## 10. Event Memories & Archive

Upload media and summaries of past events.

Organized in a timeline view for documentation.

## 11. WhatsApp Integration

Enable click-to-chat with donors or focal persons.

Templates for forwarding requests easily to groups.

## 12. Registration & Approval System

Admin-approval required for donor/member registration and blood unit requests.

Includes checks: emergency level, relation, or exchange approval.

## 13. Automatic Eligibility Checker

System checks last donation date and marks donors as 'Eligible' or 'Not Eligible' based on standard gap (e.g., 90 days).

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## 14. Donor Location Tagging

Allow donor to enter current city or location.

Helps in filtering donors nearby to patient in emergency.

## 15. SMS Alert Integration

Optional feature to send alerts via SMS in addition to email/WhatsApp.

Useful when WhatsApp is not available. (Using APIs like Twilio or local gateways).

## 16. Printable Donor Certificate

After donation, system generates downloadable thank-you certificate (PDF).

Encourages social sharing and personal achievement.

## 17. Public Stats Dashboard

Display read-only stats like total donations, requests completed, blood group availability.

Motivates community and increases visibility.

## 18. Urgency Tagging for Requests

Requests marked as Normal (24 hrs), Urgent (6 hrs), or Emergency (Immediate).

Helps donors self-filter based on their availability.

## 19. Quick Export / Reporting Tool

One-click export of logs and charts for monthly or event-wise reports.

Helps in record keeping and presentations.