

Essential Features of Automation System for Bangladesh Thalassaemia Samity

Blood Donor Management: Rashed

- Registration and profiling of voluntary blood donors, including their contact information and blood type.
- Tracking of donation history, including the frequency and volume of blood donated.
- Automated reminders for blood donation appointments and donor eligibility checks.

Financial Donation Receiving & Tracking System:

- User-friendly online platform for accepting monetary donations from individuals and organizations.
- Secure payment processing with integration with popular payment gateways.
- Donation tracking and acknowledgment system for donors.
- Allow patients to request for financial assistance for treatment costs.
- Track source of donation given to each patient.
- Track each donation distributed to whom and the purpose.
- Track how all donations were distributed or utilized.

Blood Transfusion Management:

- Management of blood transfusion orders, including patient details, blood type requirements, and transfusion history.
- Verification of blood compatibility and transfusion consent management.
- Real-time monitoring of transfusion processes and adverse reactions.

Blood Bank Management:

- Inventory management of blood units, including storage conditions, expiration dates, and blood type compatibility.
- Real-time tracking of blood donations, withdrawals, and transfusion orders.
- Automated alerts for low blood stock levels and expiration reminders.

Patient Management:

- Registration and management of thalassemia patients with detailed demographic and medical information.
- Tracking of patient appointments, treatments, and medication schedules.

Appointment Scheduling:

- Online appointment scheduling system for thalassemia treatments, blood donation sessions, and blood transfusions.
- Calendar management for staff scheduling and resource allocation.

Prescription Generation:

- Allow doctors/ admin to create electronic prescriptions for medications.
- Options for specifying medication details such as dosage, frequency, and duration.
- Keep record of prescriptions issued against each patient to monitor the drugs they consumed.

Reporting and Analytics:

- Generation of reports on blood donation trends, blood utilization rates, and patient outcomes.
- Analytics dashboards for monitoring key performance indicators (KPIs), such as donation volume, transfusion success rates, and patient wait times.
- Management view for tracking the proper utilization of donations and allocating resources efficiently.

Billing and Invoicing:

- Generation of invoices for thalassemia treatments, blood transfusions, bill for medicine and other medical services.
- Transparent billing system to demonstrate the proper utilization of donations.

Executive Committee Member Database Management:

- Store and manage Executive Committee Member information such as names, contact details, membership status, and renewal dates.
- Maintain a searchable database for easy access to member records.

Member Self-Service Portal:

- Enable Executive Committee Members to update their profiles, register for events online.
- Provide access to resources, forums, and community discussions.
- Store and share important documents such as bylaws, meeting minutes, and member directories securely.
- Allow members to access relevant documents through login process
- Mobile-responsive interface for members to access the system on-the-go.

Employee Database Management:

- Store and manage employee information including personal details, contact information, employment history, and job roles.

Leave Management:

- Allow employees to request different types of leaves (e.g., vacation, sick leave, maternity/paternity leave) through the system.
- Manage leave balances, approvals, and tracking of leave history.

Event Management:

- Organize events, conferences, and meetings.
- Manage event registrations and ticket sales.
- Generate attendee lists and badges.

Security and Compliance:

- Role-based access control to protect sensitive patient and donor information.
- Data encryption and regular security audits to ensure data integrity.

Communication and Outreach:

- Communication tools for sending appointment reminders, health education materials, and donation appeals.
- Integration with social media platforms and email marketing tools for donor engagement and community outreach.

Mobile Access:

- Mobile-friendly interface for patients, donors, and staff to access the system from smartphones and tablets.

By implementing above automation system, the charitable thalassemia Samity / hospital can efficiently manage its operations, ensure the proper utilization of donations, and provide quality care to thalassemia patients while fostering a supportive community of voluntary blood donors.

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