

### **BLOOD BANK MANAGEMENT SYSTEM (BBMS)**

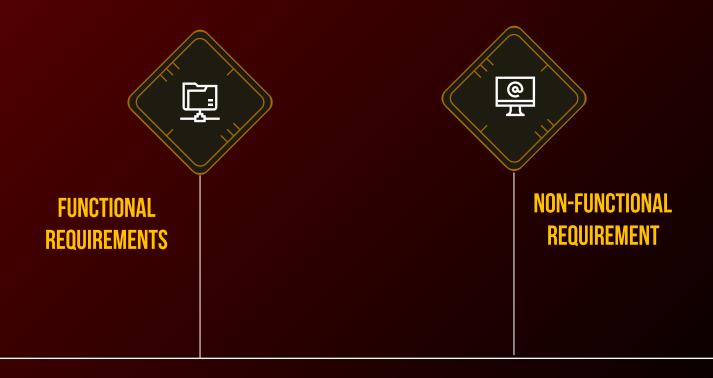
#### Problem Statement :

- Managing blood during critical moments is increasingly challenging.
- Finding blood donors can be inefficient and yield few results.
- Locating a ready donor or the nearest blood bank is often time-consuming.
- This situation causes anxiety for individuals caring for patients in urgent need of blood.

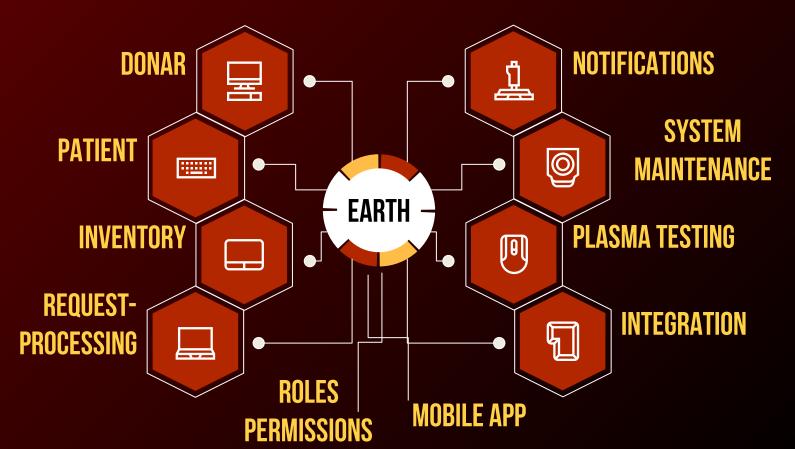
### **BLOOD BANK MANAGEMENT SYSTEM (BBMS)**

- User Stories :
- •System: Secure authentication, comprehensive databases, and analytics reports.
- Staff: Manage donors, inventory, and generate reports.
- Donors: Schedule donations, track history, and receive notifications.
- •Patients: Search inventory, request blood, and track request statuses.

## **COMPUTER SCIENCE PROPOSAL INFOGRAPHICS**



# KEY FUNCTIONAL REQUIREMENTS



## **KEY FUNCTIONAL REQUIREMENTS**

#### **DONOR**

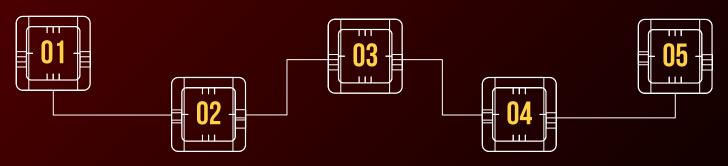
Track history, schedule donations.

#### **PATIENT**

Filter searches and manage requests.

#### **INVENTORY:**

Alerts for low stock and expiring units.



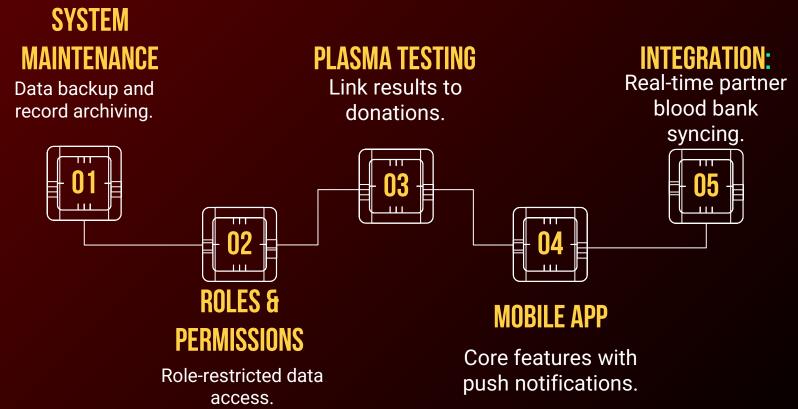
### REQUEST

Automated prioritization with overrides.

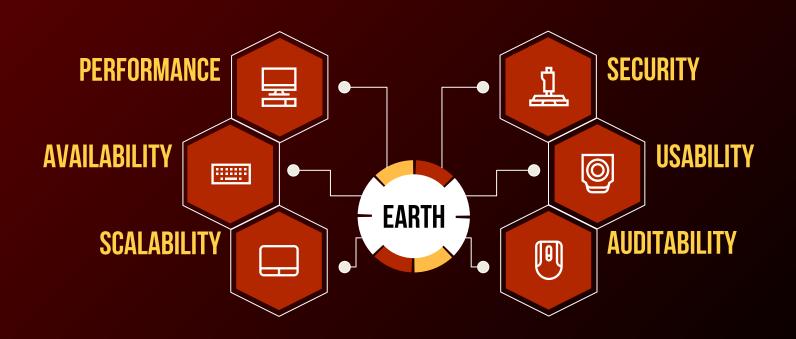
### **NOTIFICATIONS**

Updates for staff, donors, and patients.

### **KEY FUNCTIONAL REQUIREMENTS**



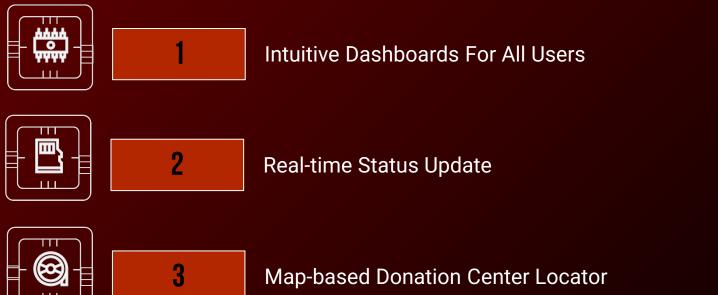
# NON-FUNCTIONAL REQUIREMENTS



### **NON-FUNCTIONAL REQUIREMENTS**

#### **AVAILABILITY SCALABILITY PERFORMANCE** 24/7 operation with Supports peak <1-second processing time for actions. 99.95% uptime. demand. **USABILITY SECURITY AUDITABILITY** Accessible in <3 AES-256 encryption clicks, responsive **Detailed activity** and session timeouts design. logs.

### **USER INTERFACE REQUIREMENTS**





Visual Alerts For Urgent Tasks

### **MOBILE APP UI**



**PROTOTYPE LINK** 

TOOLS





Ai





