BLOOD BANK MANAGEMENT SYSTEM

Presented by -

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BLOOD BANK MANAGEMENT SYSTEM

FOUR PHASES THAT OUR SYSTEM WILL GO THROUGH-

- Planning
- Analysis
- Design
- Implementation

BLOOD BANK MANAGEMENT SYSTEM-WHY?

- Huge demand for blood due to increasing accidents and population boom.
- 4.8 million people in Bangladesh carrying Thalassemia according to WHO
- Existing system being analog and inefficient in emergency situations.
- Creating a community consisting of blood banks, common people and donors.

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FEASIBILITY ANALYSIS-

How successfully a project can be completed, accounting for factors that affect it such as -

- Economic
- Technical
- Organizational

Blood Management System's feasibility analysis shows why this is a project worth investing in.

BLOOD BANK MANAGEMENT SYSTEM

TECHNICAL FEASIBILITY-

Blood Donation System is possible for implementation because -

- Based on a database system that can be handled with ease.
- Huge labor force not needed to implement the project.
- Developers are familiar with the technology used for implementation.

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ECONOMIC FEASIBILITY-

Blood donation system should be implemented because it will break even. The reasons are -

- Minimal costing in the production time.
- Ad revenue to break even the costs.
- Revenue from sponsors which are estimated around 8 lacs per year.

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RETURN OF INVESTMENT-

ROI = **195220 / 23804780 = 0.82%**

BREAK EVEN POINT-

BEP = **2 + (127000-68220) / 127000 = 2.46 YEARS**

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ORGANIZATIONAL FEASIBILITY-

Blood donation system will be organizationally feasible because -

- Extremely user friendly.
- Easily adaptable and reviewable.
- It would be incorporated in organizations due to the increasing health codes.

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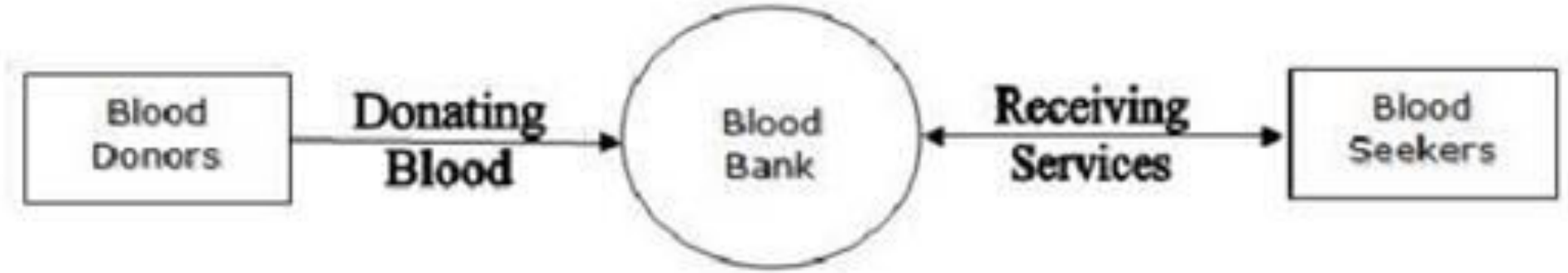
HOW THE SYSTEM WILL WORK-

- Admin panel
- Donors
- Donors Registration
- Acceptors
- Life Saving Contacts



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REQUIREMENTS GATHERING-

How did we gather?

- Taking interviews
- Survey
- Report
- Joint Application Development(JAD)

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REQUIREMENTS-

Functional requirements-

- Security
- Concurrency & Capacity
- Reliability
- Maintainability
- Usability
- Documentation

Non-Functional requirements-

- Admin login
- Password change
- Donor registration
- User & hospital registration
- Connection between Blood-banks

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REQUIREMENTS-

Hardware requirements-

- Intel core-i7 7th generation
- 8gb DDR4 RAM
- 1TB hard drive
- Internet
- External hard drive

Software requirements-

- Windows 7 of after
- HTML
- CSS
- JavaScript
- PHP
- SQL

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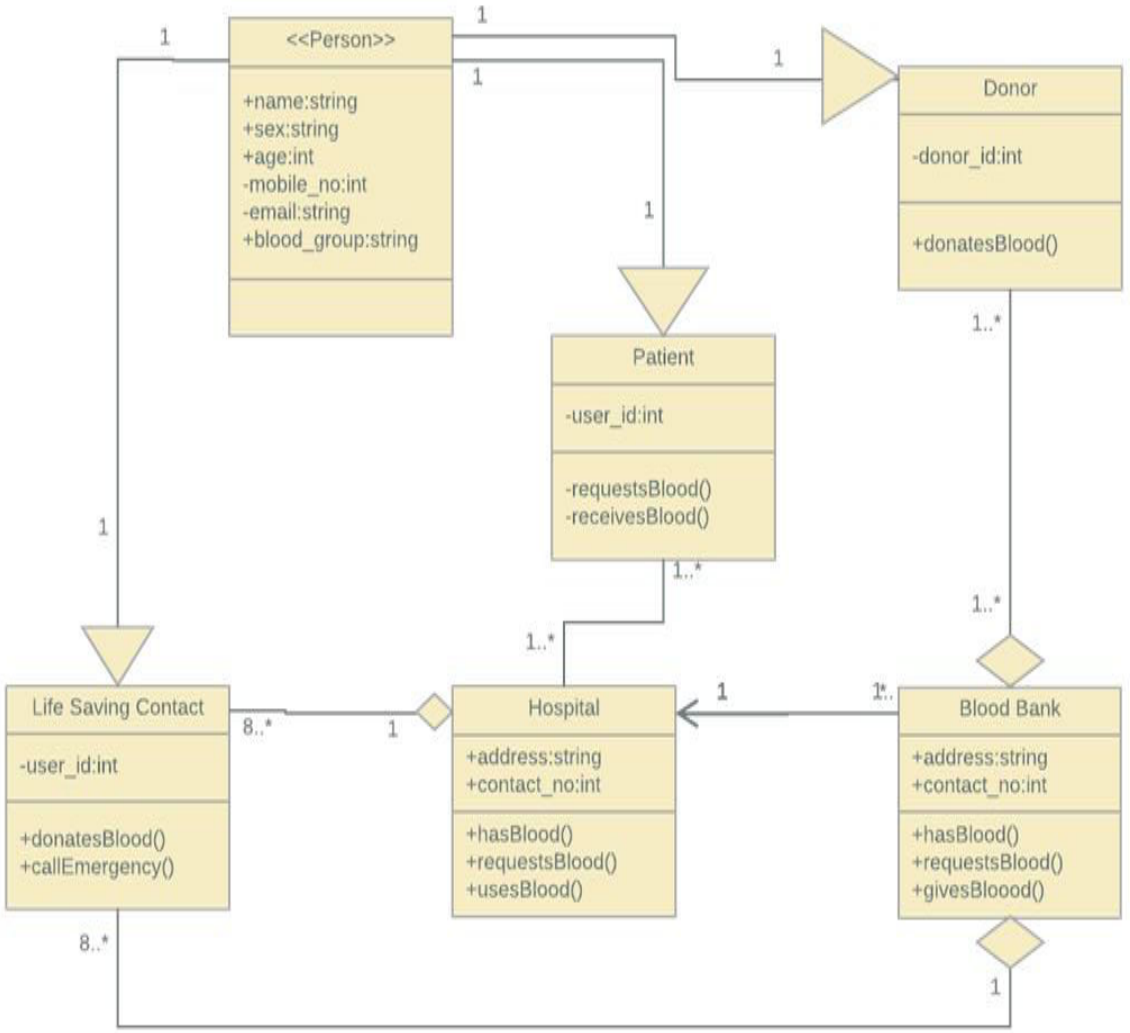
CLASS DIAGRAM-



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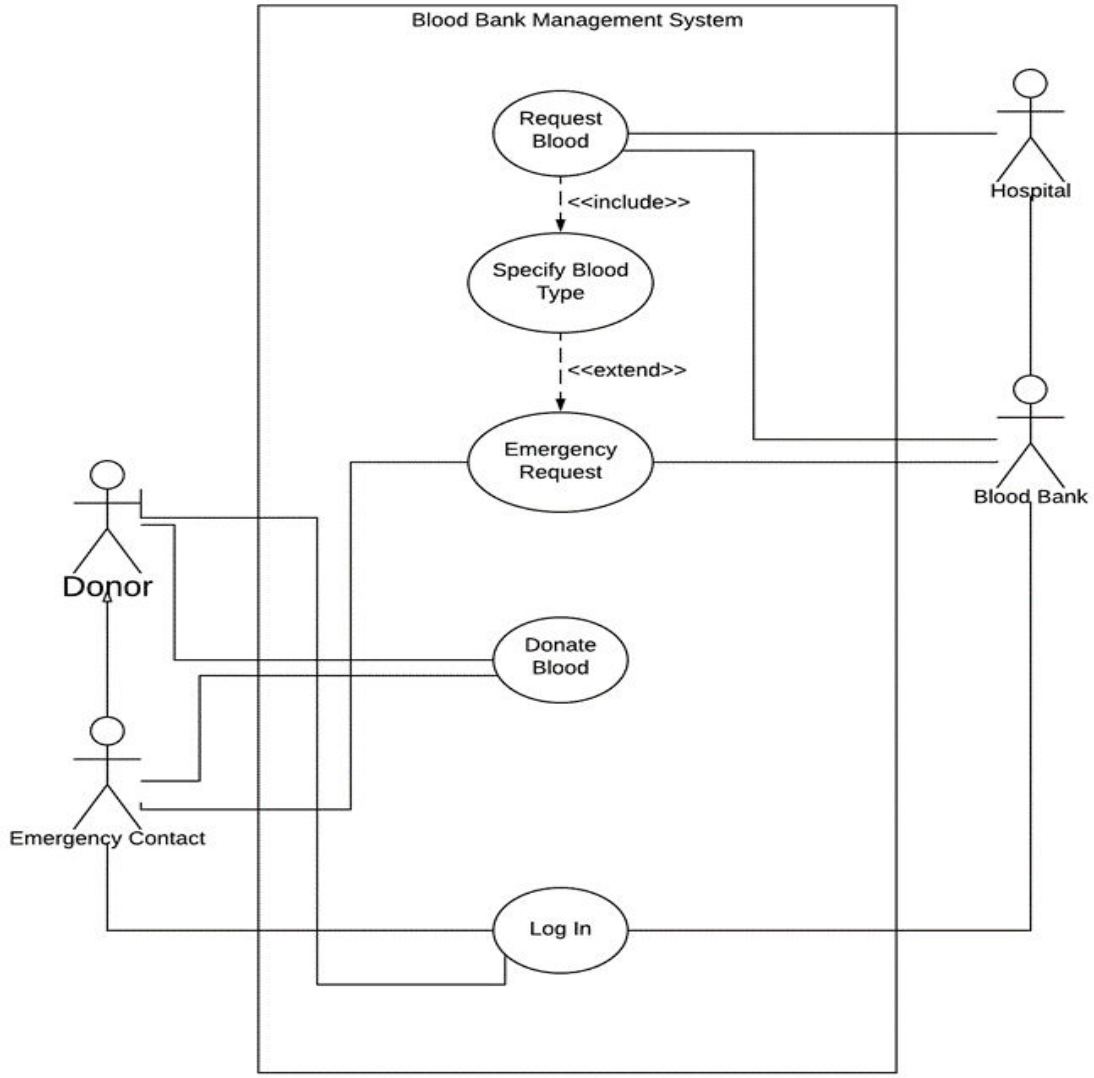
USE-CASE DIAGRAM-



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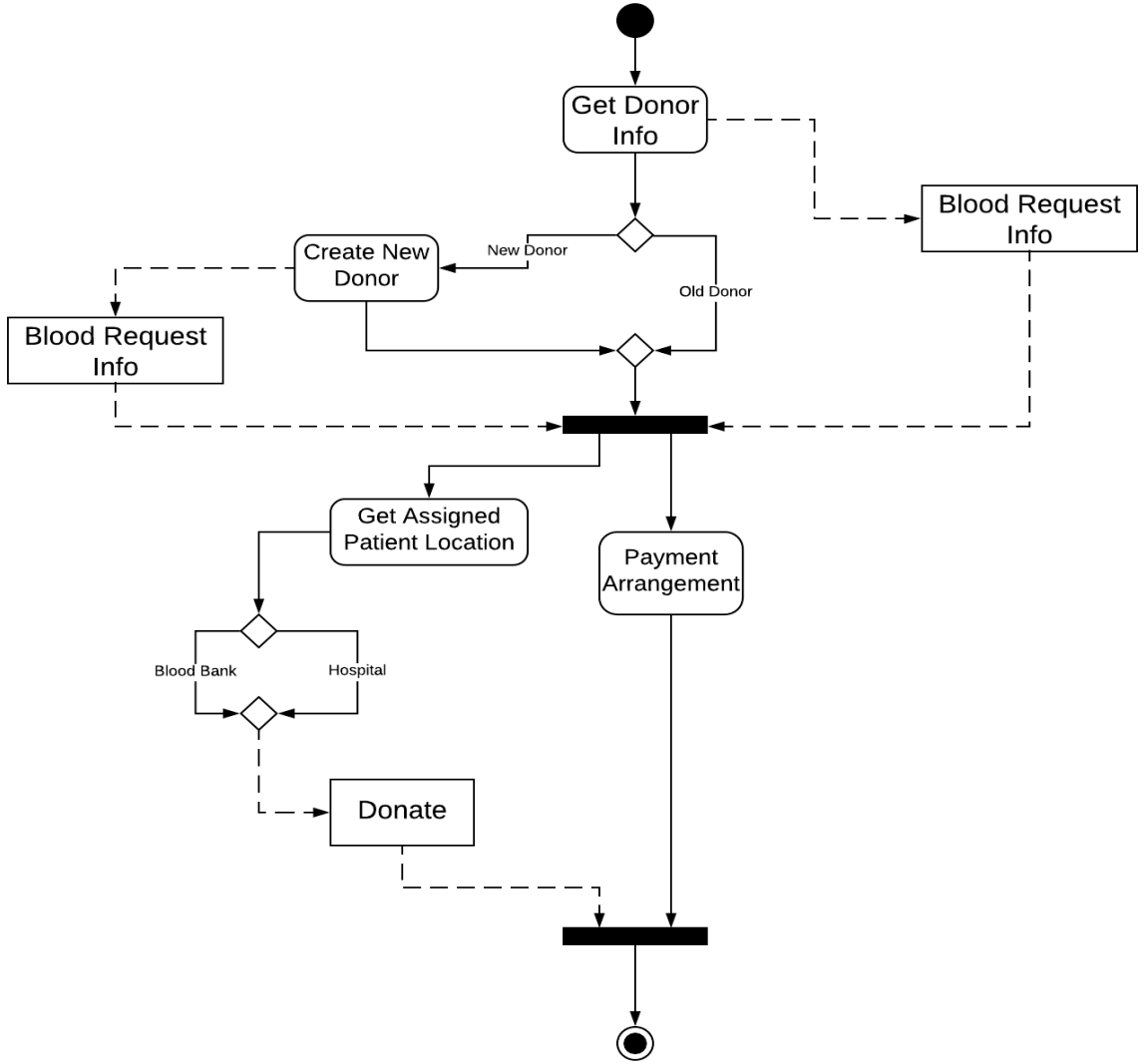
ACTIVITY DIAGRAM-



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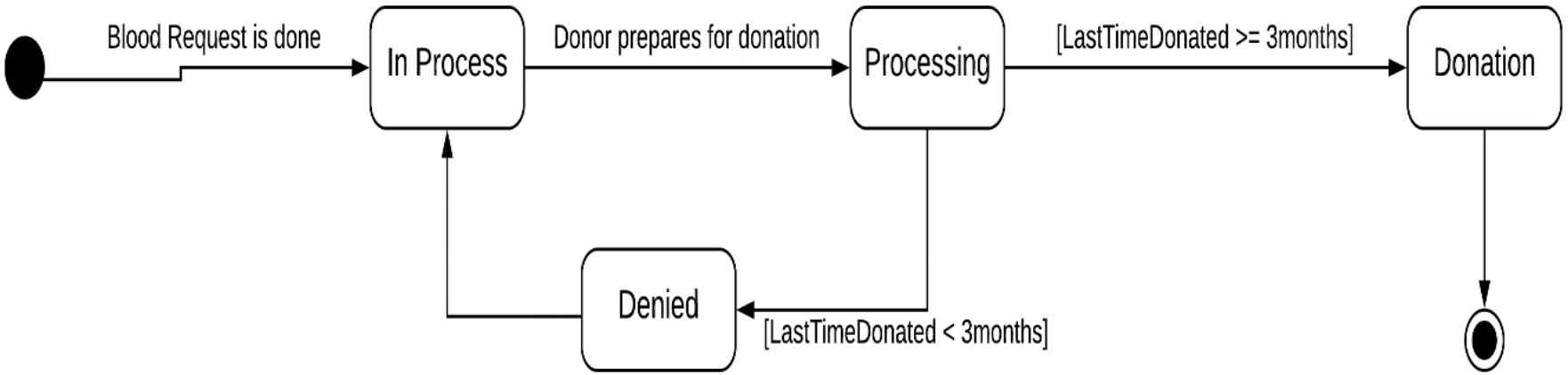
BEHAVIORAL STATE MACHINE DIAGRAM-



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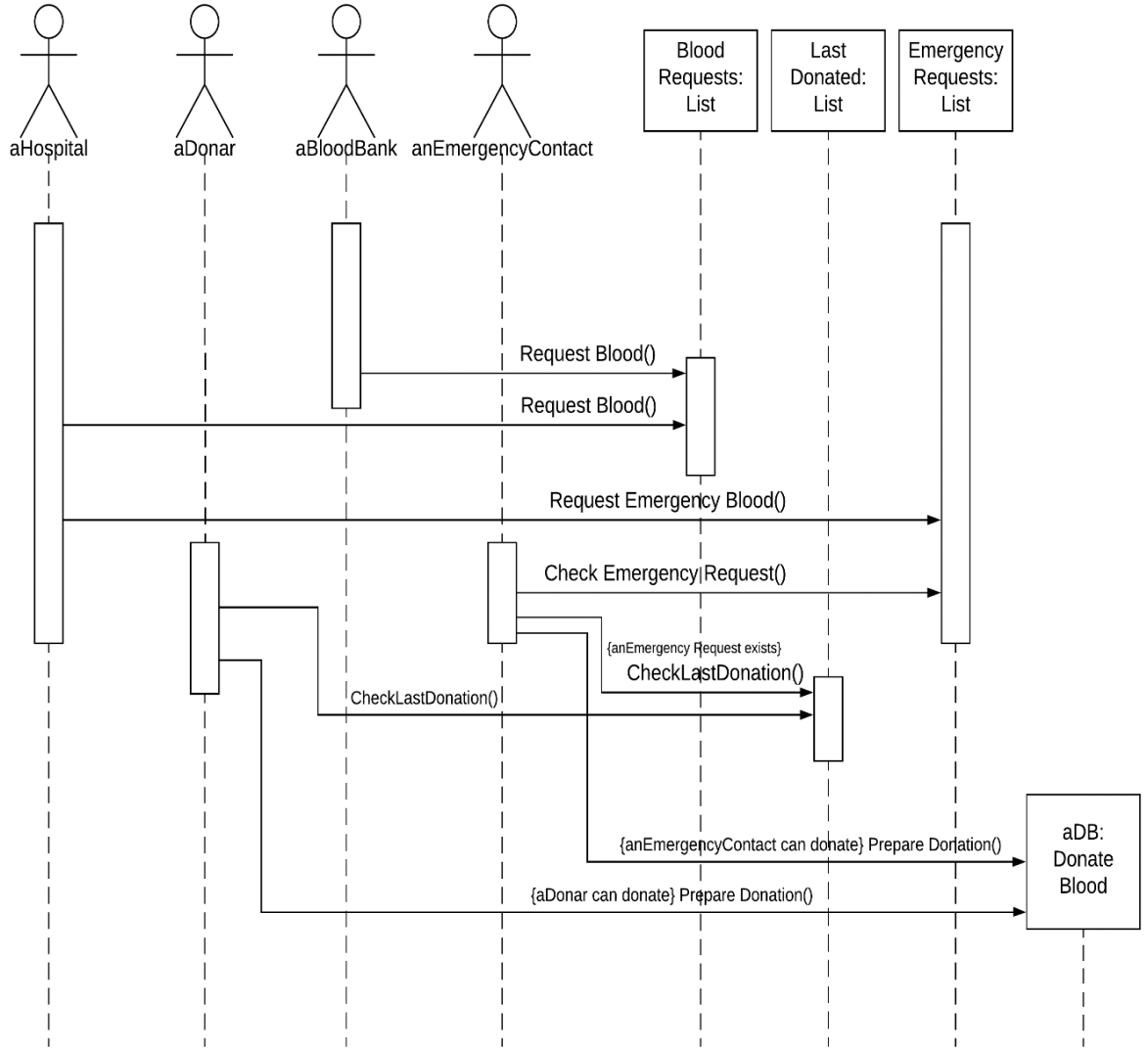
SEQUENCE DIAGRAM-



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FUNCTION POINT-

Estimated system size-

TUFP: 665
Total Processing complexity: 20
Total Adjusted Function Points (TAFP): 565.25

Effort that will be required-

For JAVASCRIPT: **1.4 * 14.63 = 20.482 p/m**
For PHP: **1.4 * 17.95= 25.13 p/m**

Time the project will require-

For JAVASCRIPT: **3.0 * $20.482^{1/3}$ = 8.208 (months)**
For PHP: **3.0 * $25.13^{1/3}$ = 8.78 (months)**

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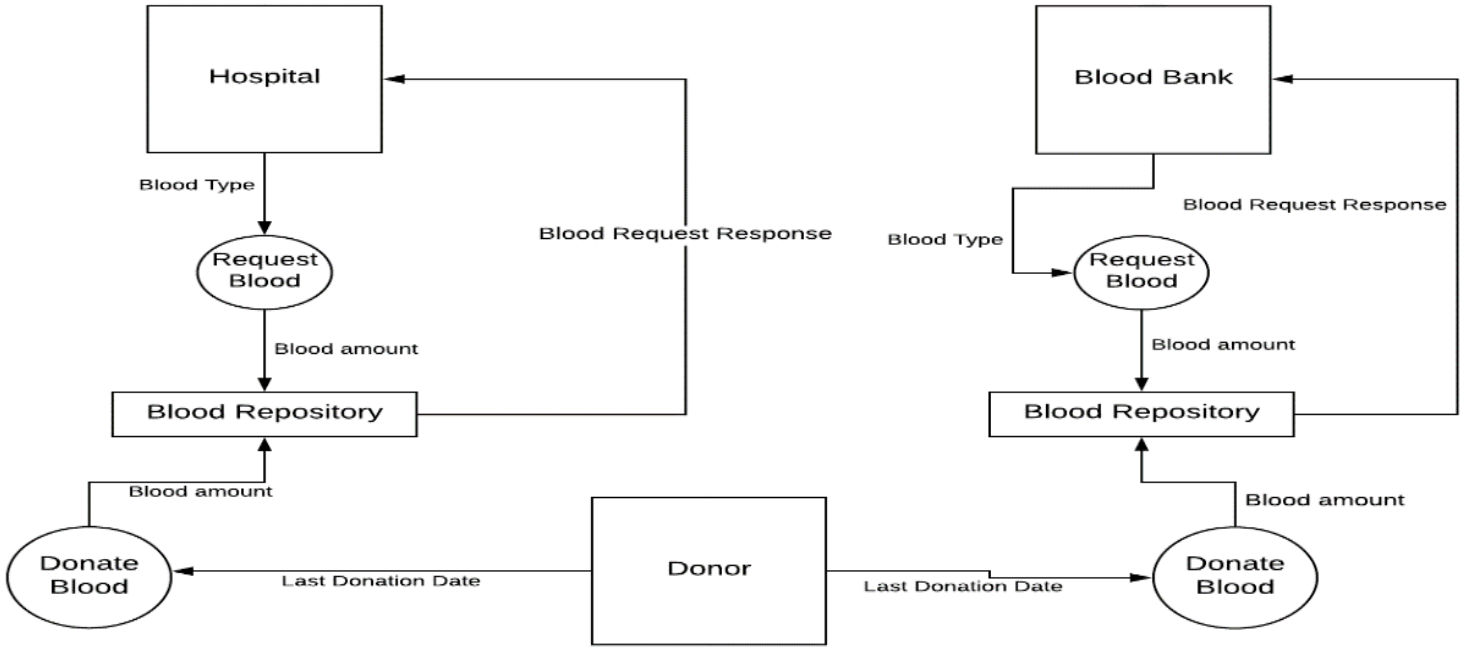
DATA FLOW DIAGRAM-



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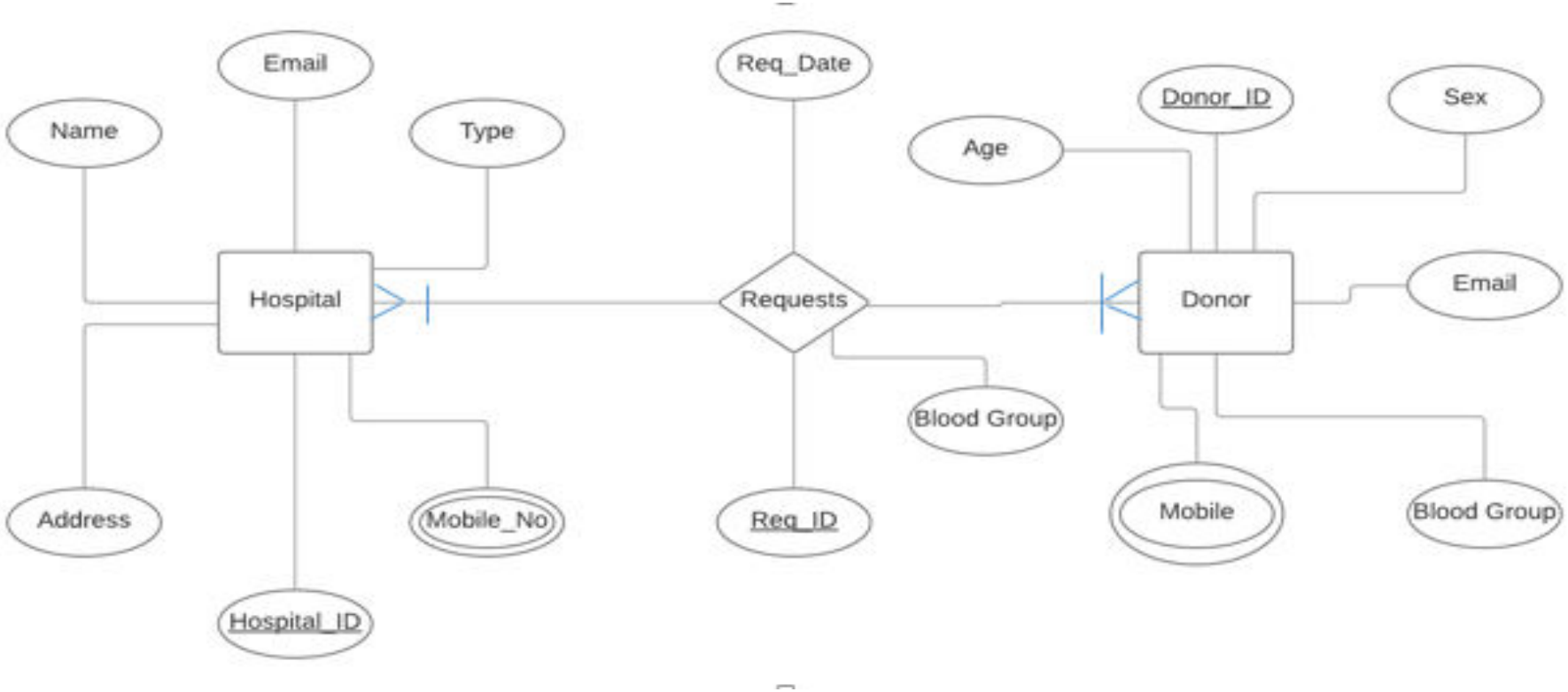
ENTITY RELATIONSHIP DIAGRAM-



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FUTURE PLAN-

- Save more time, money and hassles
- spread the system in whole country
- Review system for the users
- Upgradation of the system

QUESTIONS???