BLOOD BANK MANAGEMENT SYSTEM

PROJECT BY :-

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FACTS

- Type O-negative whole blood can be transfused to people with any blood type, but this type of blood is rare, and supplies of it are low.

- Just 1 donation can save up to 3 lives.

- More than 38,000 blood donations are needed every day.

- Type AB plasma can be transfused to patients with all other blood types, but it's also in short supply.

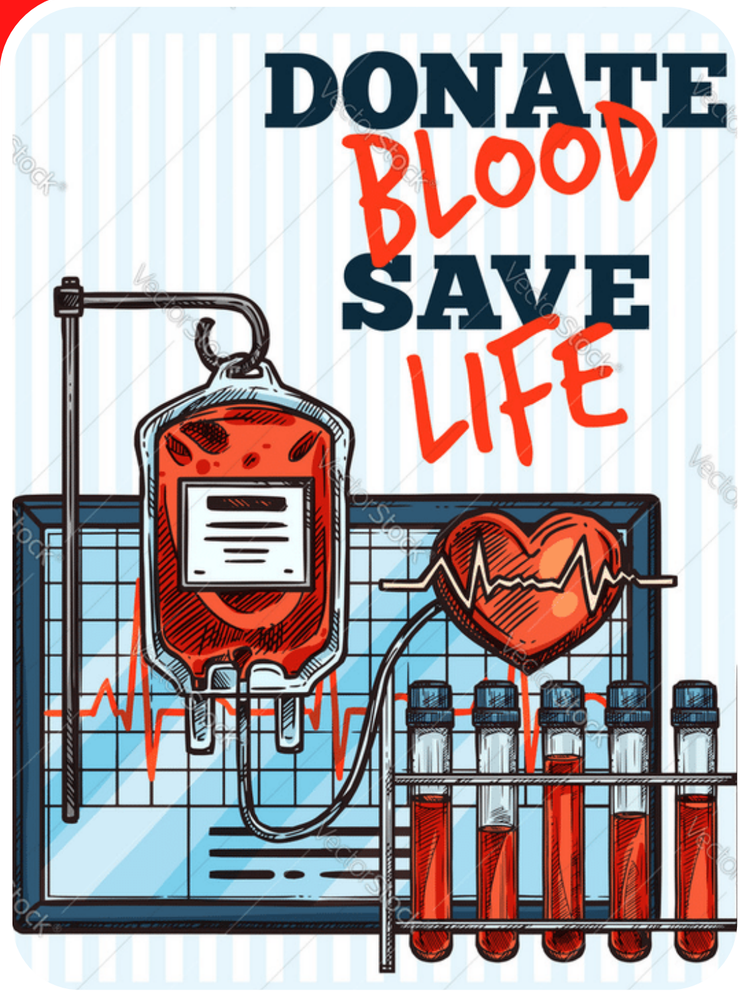
OUTLINE

- Introduction
- Overview and Description
- Functional Requirements
- System & Hardware Requirements
- Benefits and Characteristics
- UML Diagrams
- Architecture and ER Diagram

INTRODUCTION

This project is developed to manage the blood stock in the "BLOOD BANK" and the information of the donors and the receivers are maintained in the database.

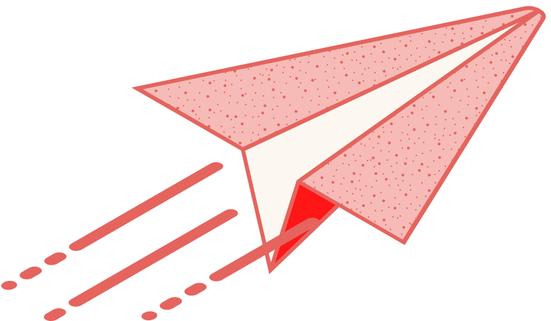
It will be helpful for those who are in need . It will have the contact details of the blood donor with all the blood groups. It will show the results based on the location.



OBJECTIVE AND SCOPE

- To bridge the gap between blood banks, hospitals, volunteer donors and needy people, through this system.
- To facilitate the search process for needy people and make it easier than before.
- To use GPS service for locating the centers and volunteer donors to know if the seeker is near to or not.
- To provide dynamic database that is storing donors information and can communicate with them easily.

OVERVIEW AND DESCRIPTION



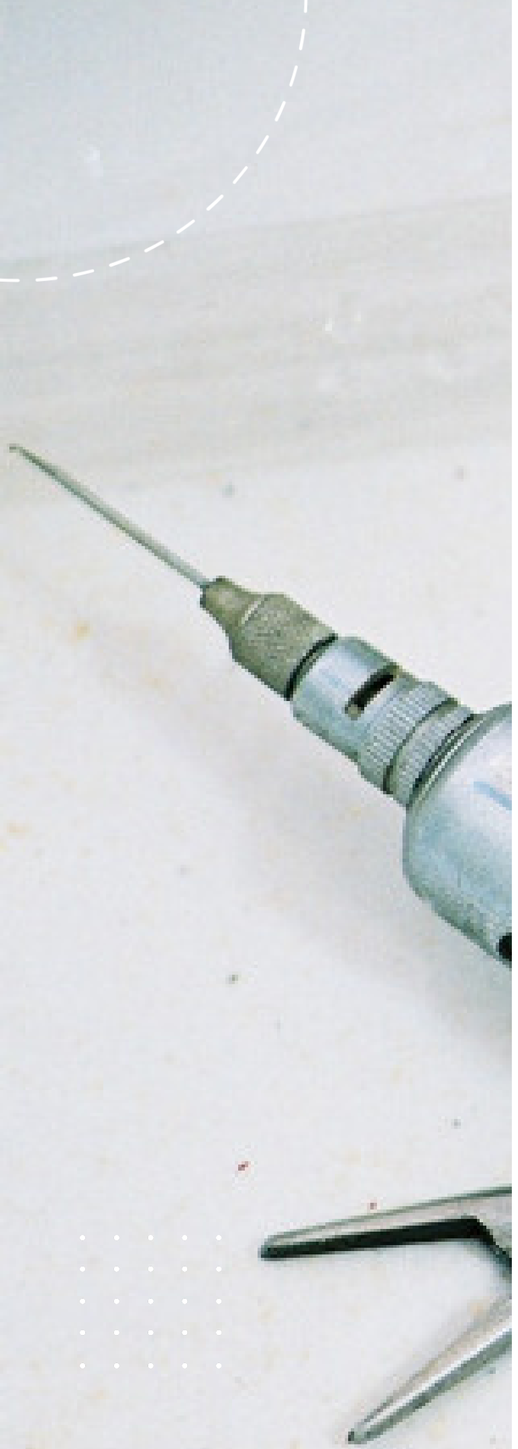
01 It will provide an efficient donor and blood stock management functions to the blood bank by recording the donor and blood details

02 Information of available blood donors for a particular blood group.

03 It will provide immediate storage retrieval of data and information

04 Nearby blood donation, center location.

05 It will reduce the data entry process



FUNCTIONAL REQUIREMENTS

Sign up

Login as Blood Donor or receiver

Register the donor/receiver by himself

Add personal details

Forget password if necessary

Change profile details if required

Withdraw registered details by the donor

Search the location of nearby centers

SYSTEM REQUIREMENTS

Operating system

Windows 7

Front End

Android studio

Language

Java , XML

Database

MySQL

HARDWARE REQUIREMENTS

Intel P4 1.5Ghz or above

512MB ram

80 GB HDD Minimum

Requirements

Capacity, Scalabilty and availability

Maintainability and security

Performance Requirements

Should run on 500 Ghz, 64 MB machine

Should have a proper internet connection

Response time for occurs a change will be no more than 4 seconds

Response time for accessing the database will be no more than 5 seconds

BENEFITS AND ITS CHARACTERISTICS

01

BLOOD DONATION MANAGEMENT

02

BLOOD PROCUREMENT

03

ROUTINE BLOOD TRANSFUSION

04

EMERGENCY ISSUE OF BLOOD

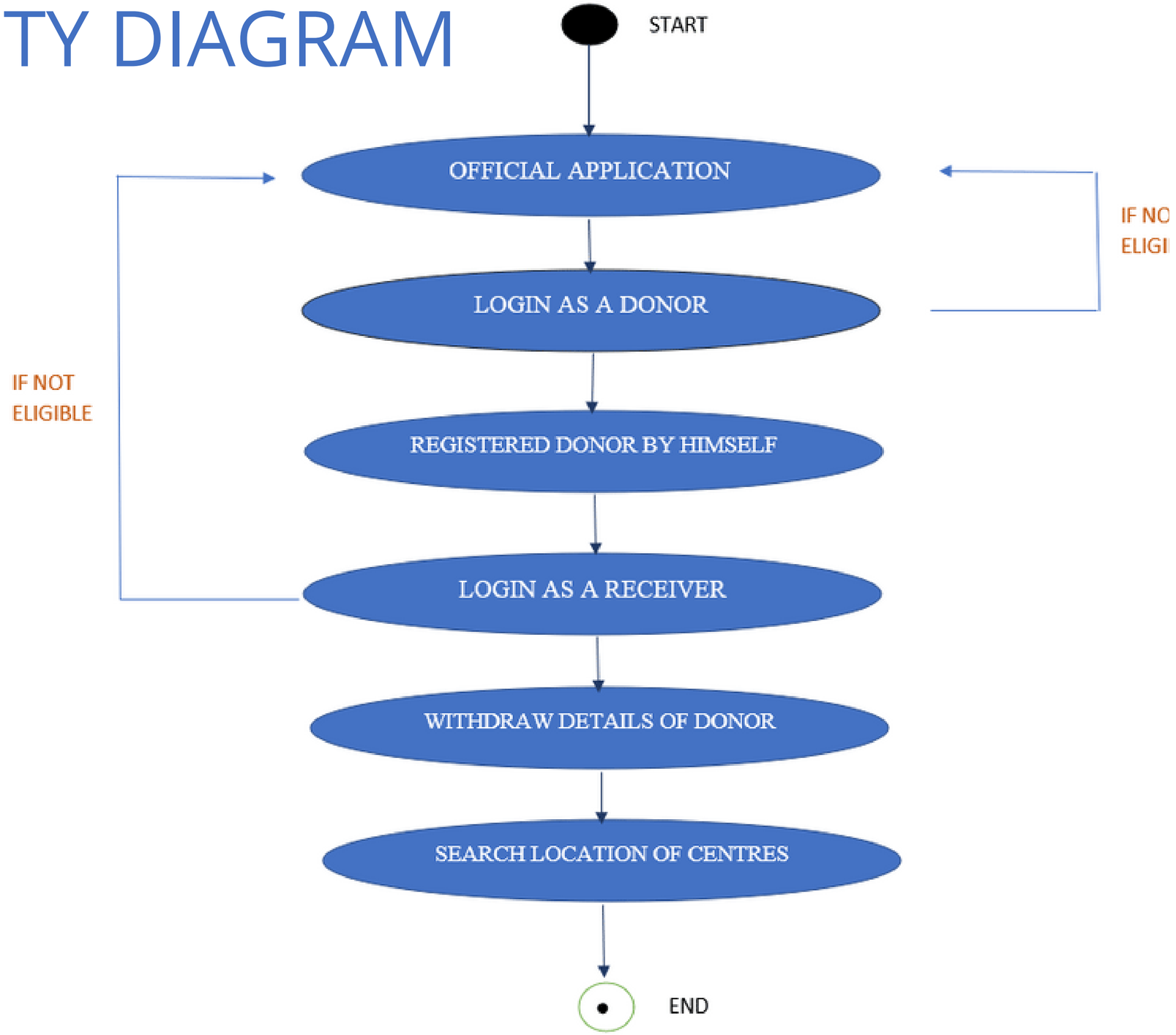
05

BLOOD COMPONENT STORAGE AND DISTRIBUTION

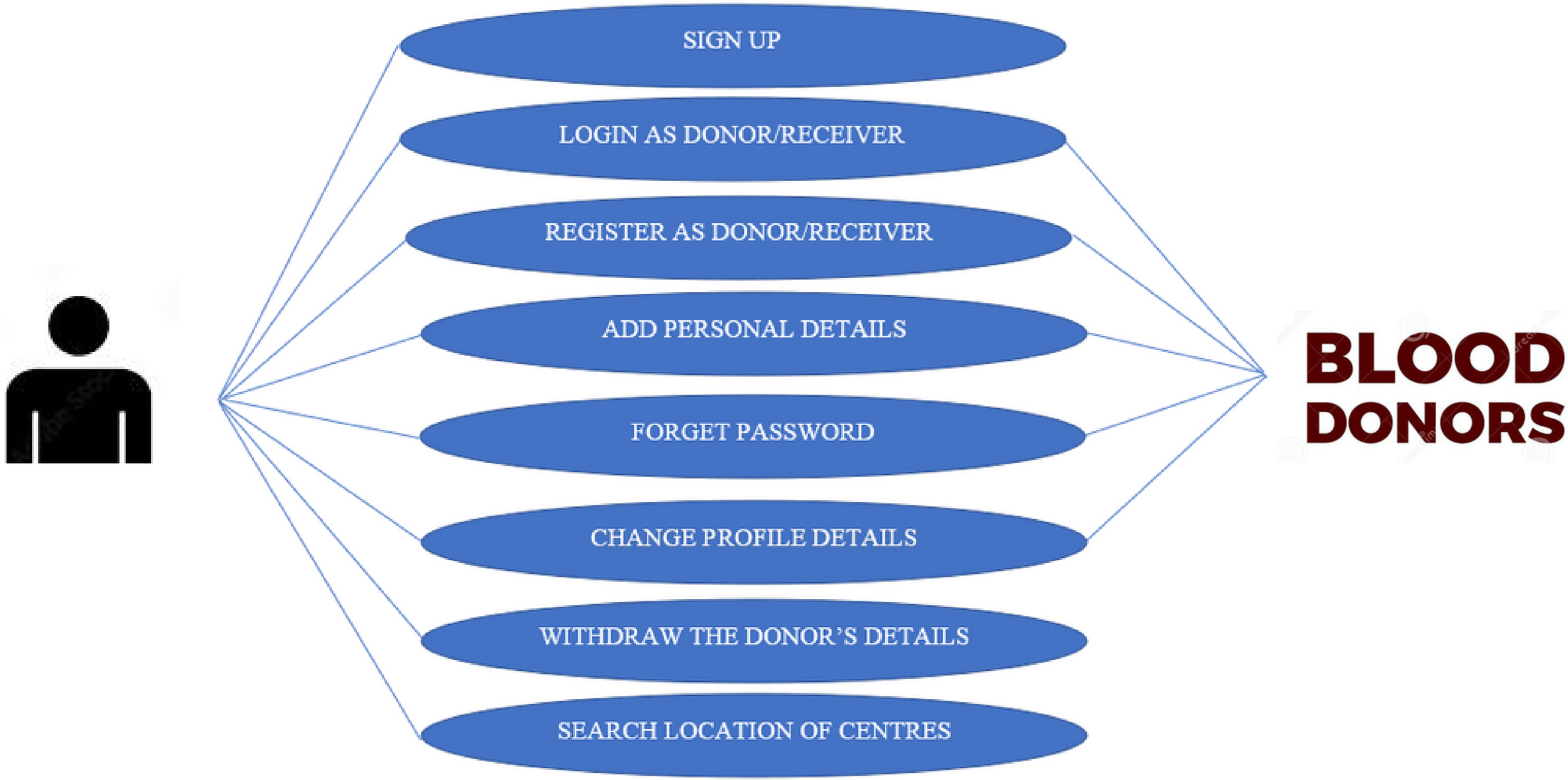
06

PROVIDE ONLINE INFORMATION FLOW FOR THE MANAGEMENT OF BLOOD DONORS AND RECIPIENTS

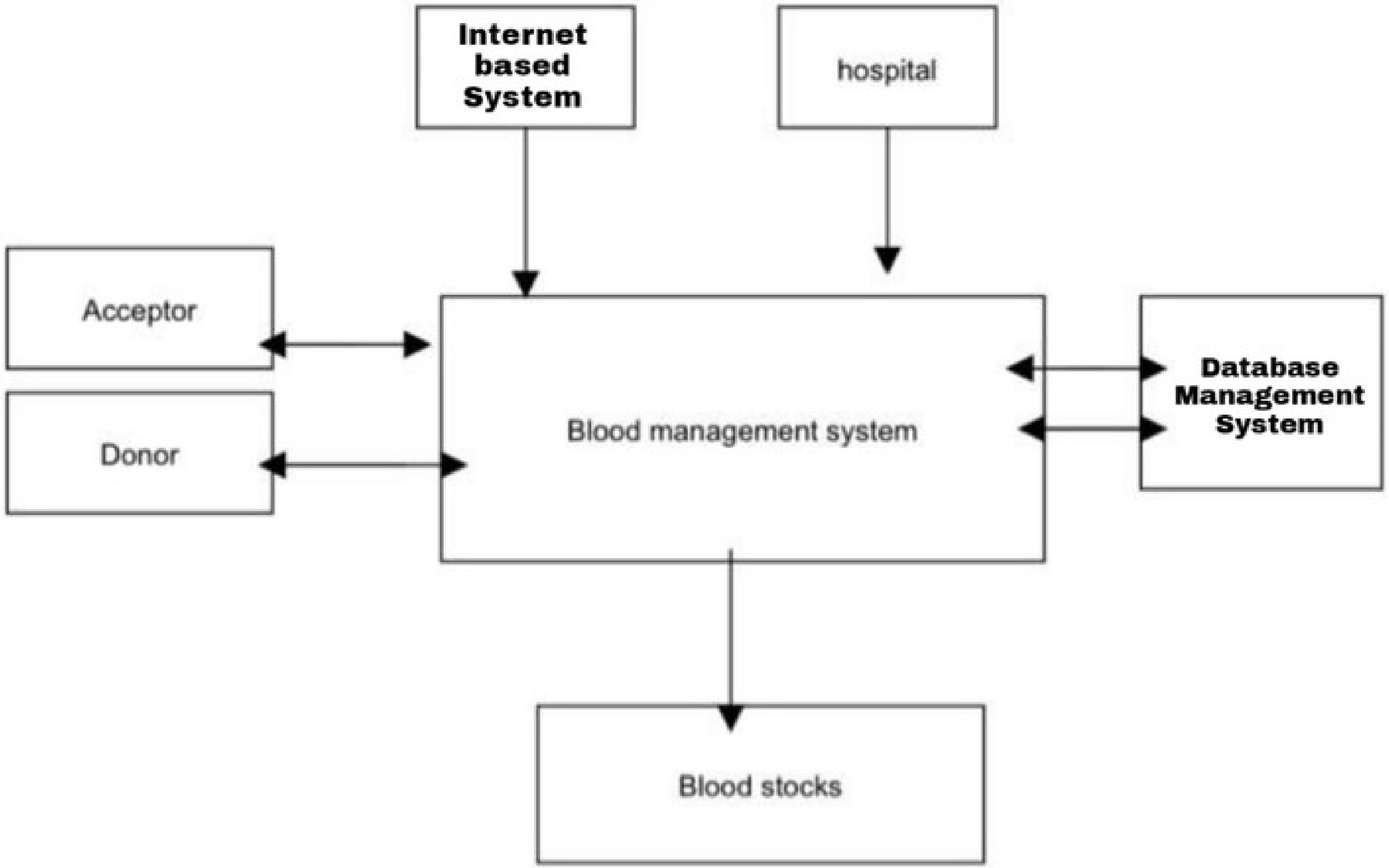
ACTIVITY DIAGRAM



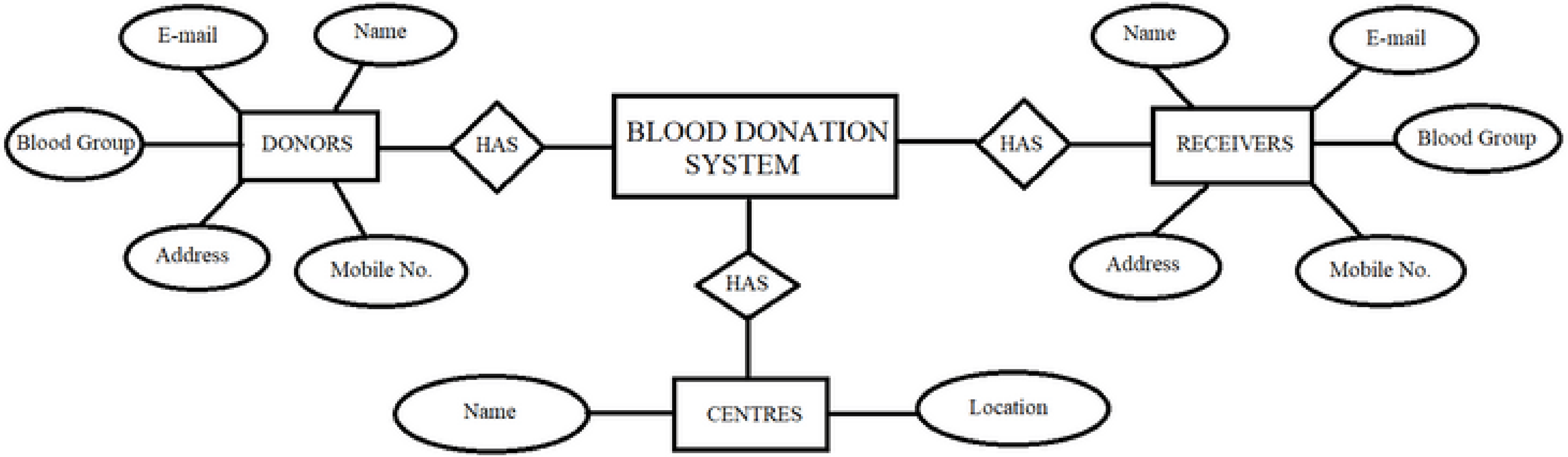
USE CASE DIAGRAM



Architecture Diagram



ER Diagram


E-mail
Name
Blood Group
DONORS
HAS
BLOOD DONATION SYSTEM
HAS
RECEIVERS
Name
E-mail
Blood Group
Address
Mobile No.
HAS
Address
Mobile No.
Name
CENTRES
Location

Thank you!