



Blood Bank Management System(DBMS)

Project Report

Course Code: CSE312

Course Title: Database Management System Lab

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Project Overview:

Blood Bank Management System (BBMS) is database system to link between the donors and blood banks and act as an interface for the patient to find his/her desired blood in a fast and efficient way. It will make the blood transfusion service and its management more reliable and efficient than the conventional system.

Transfusion of blood and blood components is an established standard way of treating patients who are deficient in one or more blood constituents and is therefore an essential part of health care. A blood transfusion service is a complex organization requiring careful design and management. Essential functions of a blood transfusion service are donor recruitment, blood collection, testing of donor blood, component preparation and supply of these components to the patients.

The organization of a blood transfusion service should receive utmost attention and care for smooth functioning of various components of the service. The goal of blood transfusion service is to provide effective blood and blood components which are as safe as possible and adequate to meet the patients' needs.

The basic functions of a blood transfusion center may be listed as follows - Recruitment and retention of voluntary and replacement blood donors, collection, processing, storage and transportation of blood and its components, laboratory procedures, participation in the clinical use of blood and blood components, teaching and training of personnel, research and development need for Blood Bank.

As a blood transfusion service deals with different functions related to donors and patients, it is imperative to keep in mind the safety of both donors and recipients. The blood transfusion service has to be planned and organized in such a way that it fulfils its ideal aims and objectives i.e. Recruitment of blood donors - voluntary & replacement, care of donor, donated unit and the recipient, maintain adequate blood stock, provide clinically effective blood components, optimal use of available blood.

In Bangladesh, Blood transfusion services are mostly hospital-based. In a hospital based blood transfusion service, each hospital runs its own blood collection programme with or without central regulation. This system utilizes existing institutions and does not require creation of separate blood transfusion centers. As the organization of voluntary blood donation in hospital-based system is usually unsatisfactory, replacement donors form the main source of blood supply in the hospital. Replacement donors are usually friends and family members of the patient and are under pressure to donate blood. A voluntary donor system is far more satisfactory as there is no compulsion and the donor is motivated to donate blood.

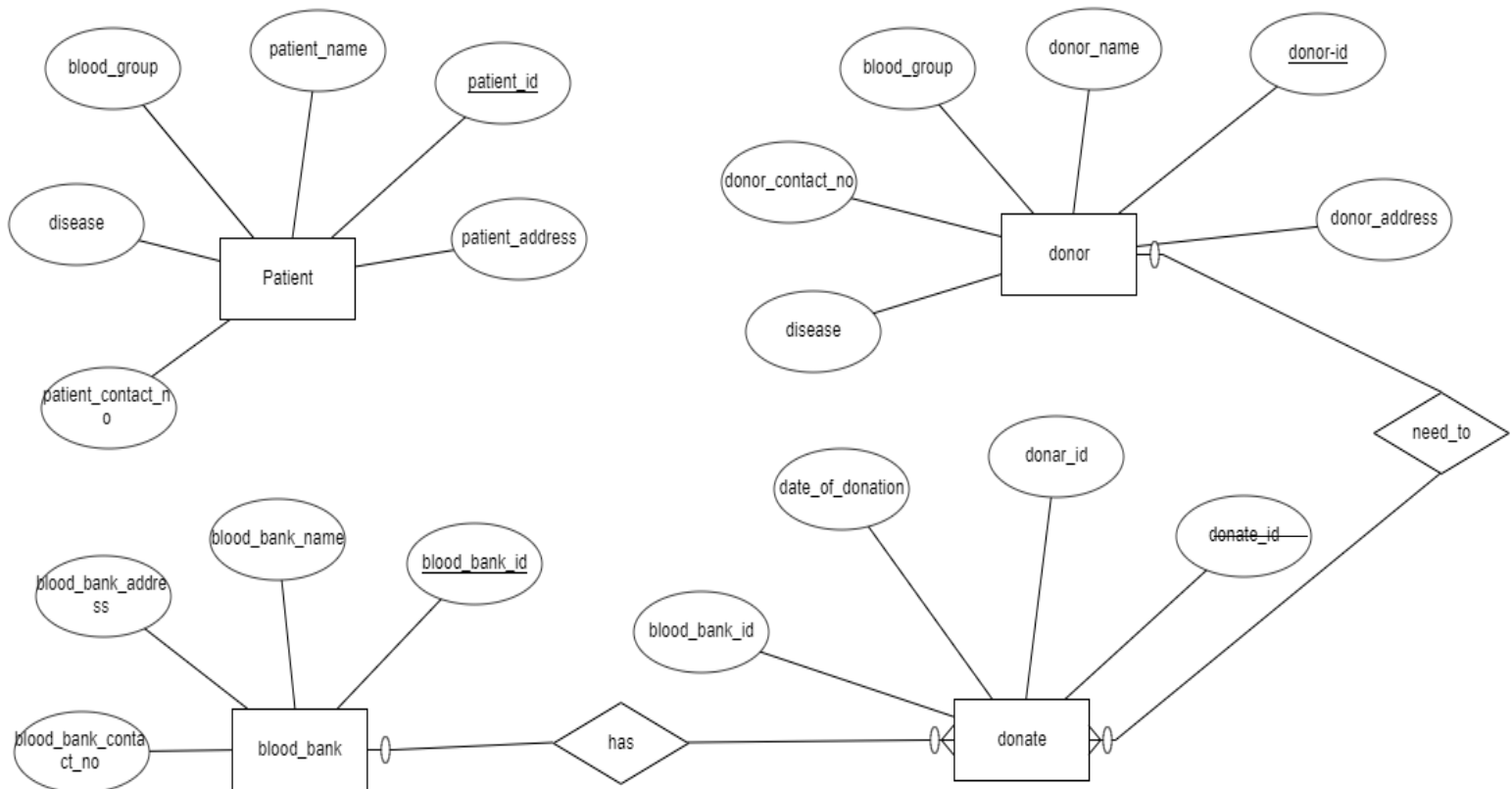
Objectives of the project is to Improve operational & Streamlining operations, maintain all the project, employee, project database, maintain global standards of the project development, reduce Manpower and manual paper works for maintaining the records offline, main the accuracy, integrity and consistency of the data, providing such a mechanism to make the man power fast to maintain all the information about the project, improved management and control of the inventory, sales, stock

Database Structure:

In this database consists of four tables. The main tables are the patient, donor and bloodbank tables. The remaining table 'donate' is the relational table which links 'donor' and bloodbank tables with its foreign keys.

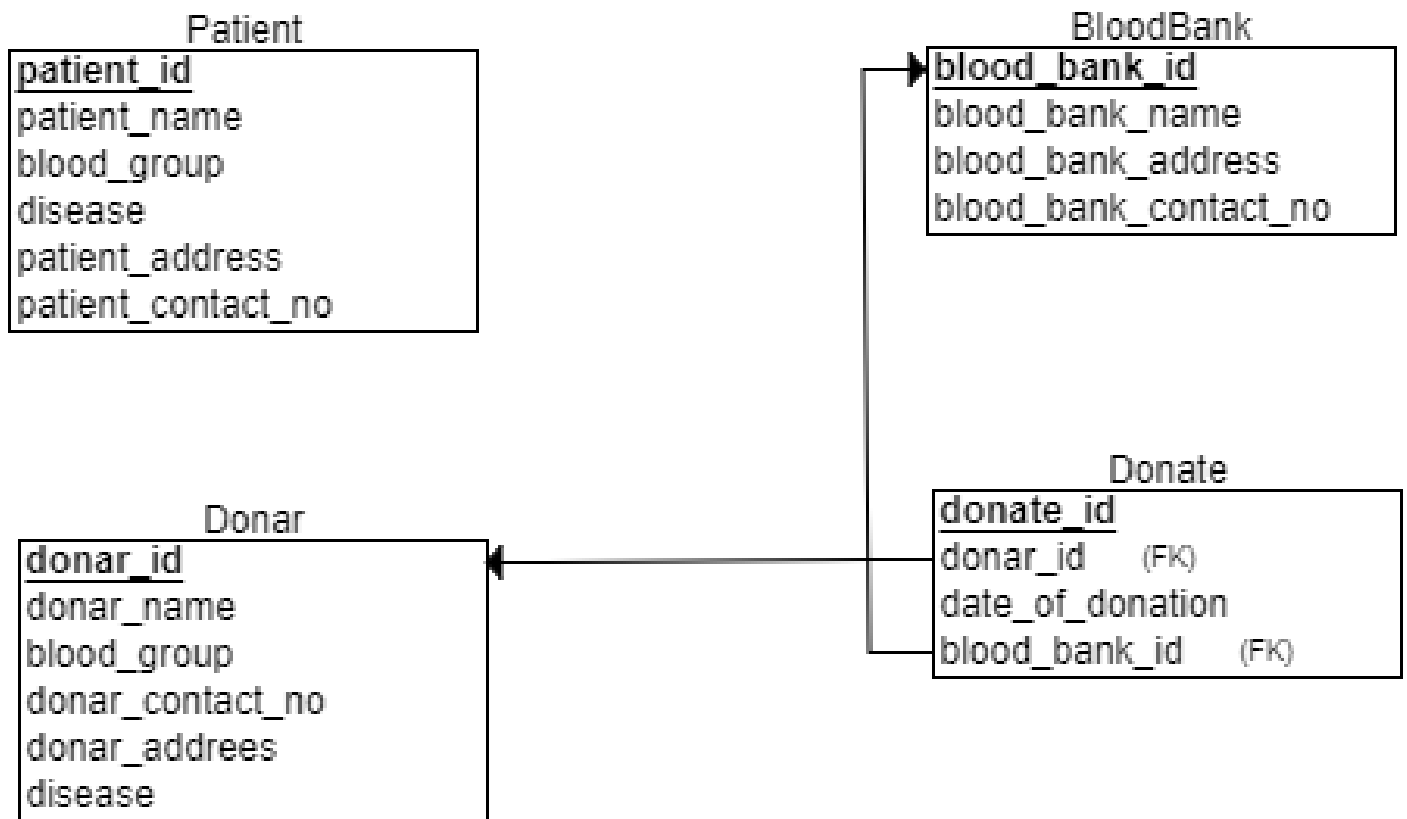
Database Table	Description
Patient	Contains all of the patient's information.
Donor	Contains all of the donor's information.
BloodBank	Contains all of the blood bank's information.
Donate	The table 'donate' is the relational table which links 'donor' and 'bloodbank' tables with its foreign keys.

ER-DIAGRAM:



ER-Diagram: Blood Bank Management System

Schema Diagram:



Schema Diagram: Blood Bank Management System

Thank You for open our project.....

If You have any question. Then contact with us:

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