

BLOOD DONOR SYMBIOSIS

I) INTRODUCTION

a. Purpose:

The primary objective is to bolster the availability of blood and blood products within the healthcare system. By encouraging and facilitating blood donation, the project aims to reduce shortages and ensure an adequate supply of blood for patients in need. The project seeks to promote public health by raising awareness about the importance of regular blood donation. Educating the public about the role of blood donors in the healthcare system helps create a healthier and more informed community.

By fostering a sense of symbiosis between blood donors and recipients, the project aims to reduce the dependency on emergency blood drives and ad-hoc appeals for donations. A sustainable supply of blood can lead to a more efficient healthcare system.

Encouraging community participation is another significant purpose of the project. It seeks to create a sense of unity and responsibility within the community, where individuals see themselves as active contributors to the well-being of others.

b. Scope:

Blood Donor Symbiosis is a software developed with the intension of searching for required blood group, maintaining emergency requests on homepage and maintaining details of donors and blood banks. Apart from maintaining the database blood donor project also aims to increase the number of voluntary donors by spreading awareness.

Efforts to recruit new blood donors and retain existing ones are within the project's scope. This includes strategies to educate the public about the importance of donation and create a sense of commitment among donors to contribute regularly along with trying to create a sustainable and symbiotic relationship between donors and recipients to meet the ongoing and emergent healthcare needs of the community.

II) PROJECT DESCRIPTION

a. Project overview

Blood Donors Symbiosis is basically an idea to spread awareness about blood donation of blood donation as a significant amount of people don't participate and some people who are enthusiastic about it are not aware about the chances when and where they can donate. It needs the hospital management to blindly search through network for a blood donor during emergency cases.

For example: In earlier days if a person needed a certain blood type then it would be sent through text, but it greatly delays the process and could only reach to some a limited extent. To overcome this drawback, in the blood donors symbiosis the people can search for the required blood group very easily through internet, if the required donor is available, they are contacted through recorded information in the database. All these tasks will be done with in short span of time however if the required donor is not available, required blood group and contact number in the emergency request which is displayed on home page.

b. Major project functionalities:

- Registration for every individual who are willing to donate
- Special accounts for Blood Donation camps (NGO), and Hospital
- Emergency requirements on home page

III) SYSTEM FEATURES AND FUNCTION REQUIREMENTS

1. Security and Accounts Module: This specification is provided with privacy to prevent access to the unauthorized user accounts. This can be enhanced with a Pretty Good Privacy to provide security to various accounts.
2. Bulk mail: In this module the blood donation camp organizer will send mails to all the donors who are registered with our website so that the donors can come to know where the blood donation camps are going to be held.
3. Search: In this module, the user can get the details of donors according to particular blood group wise. Through this module we can get the information of required donor very easily. The patients can search for the details of the blood banks.
4. Emergency request: In this module the patients can request for blood, the request will be displayed on the home page of the website. So that any general visitor of the website can respond to the particular emergency request.
5. Doctors and blood camp frontend: This module includes the doctor's homepage. Here the doctor can post the articles and spread awareness about the blood donation. This module provides the information about when and where the blood donation camps are conducted.
6. Admin control panel: Administrator plays a very vital role. In this module the Admin uploads the information of blood donation camps, blood bank details. And it also uploads the doctor's information. The admin has all rights to perform manipulations on information. And administrator creates the accounts for doctors, blood camp organizations and adds up those account details to the database.
7. Donor: the donor can log into the website with his username and password. If they are already a present user, log is maintained of the user.

Blood Donors Symbiosis is basically an idea to spread awareness about blood donation. Its a common fact that, many people do not know about the importance of blood donation and equal number of people who are aware about it, are unaware about the chances when and where they can donate.

This website serves to 5 kinds of people. The unaware people, people who are willing to donate but do not know when and where to donate, hospital managements who blindly search through network for a blood donor during emergency cases, blood donation camps and doctors who want to spread awareness.

Features:

- Complete blood donation awareness information online:

The updates of the blood donation camps, and its location will be updated on the website

- Registration for every individual who are willing to donate

The donor should compulsorily register for donation. When the donor is needed, they will be contacted.

- Anyone who is in need in emergency cases can drop the emergency need on the home page and will be directed to the donors and provide them with donor information to contact

- Bulk mail, to send mail to everyone together:

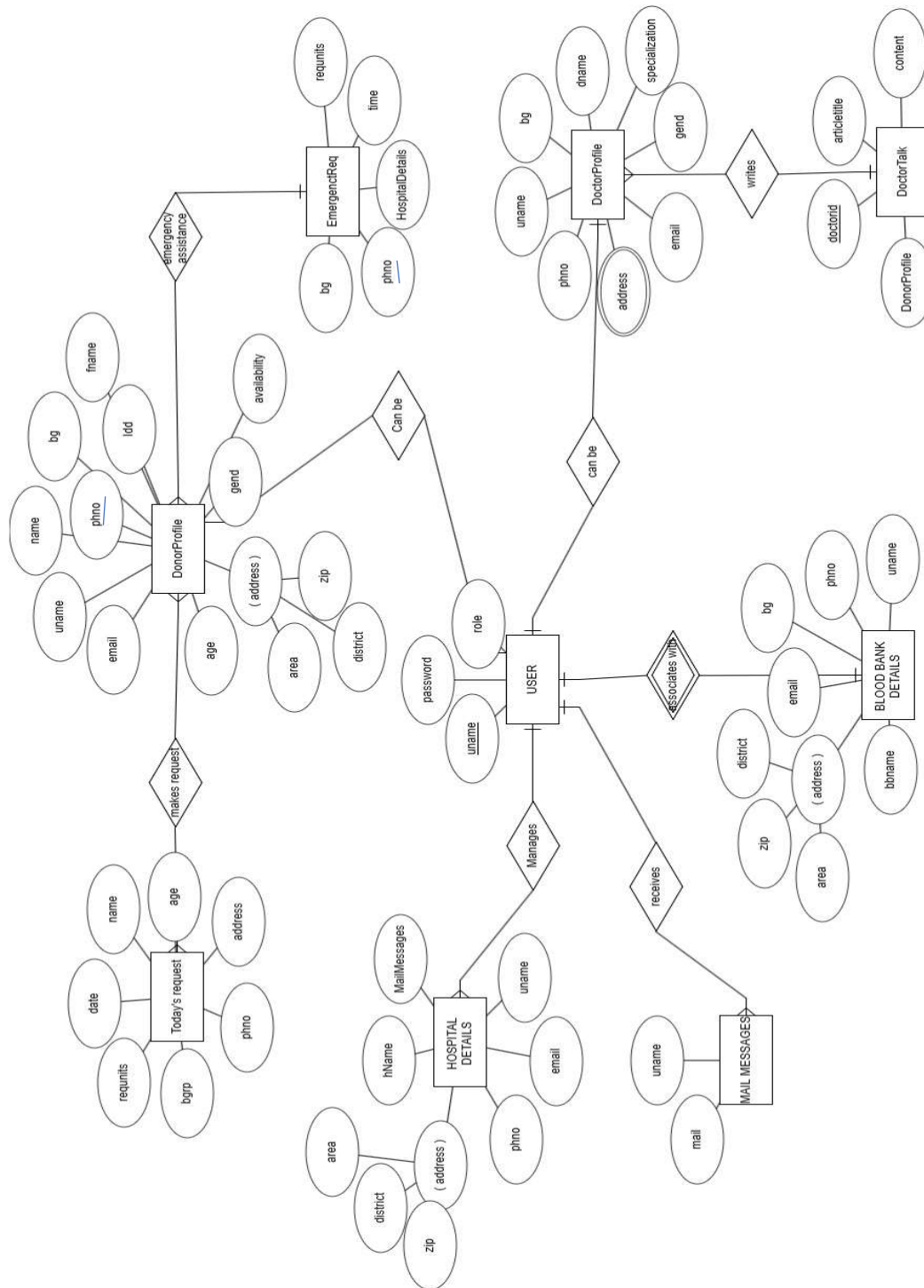
This is used to send mail to everyone like donors or to blood banks and hospitals when in need of blood.

- Special accounts for Blood Donation camps (NGO), and Hospitals having units of blood and how to access them

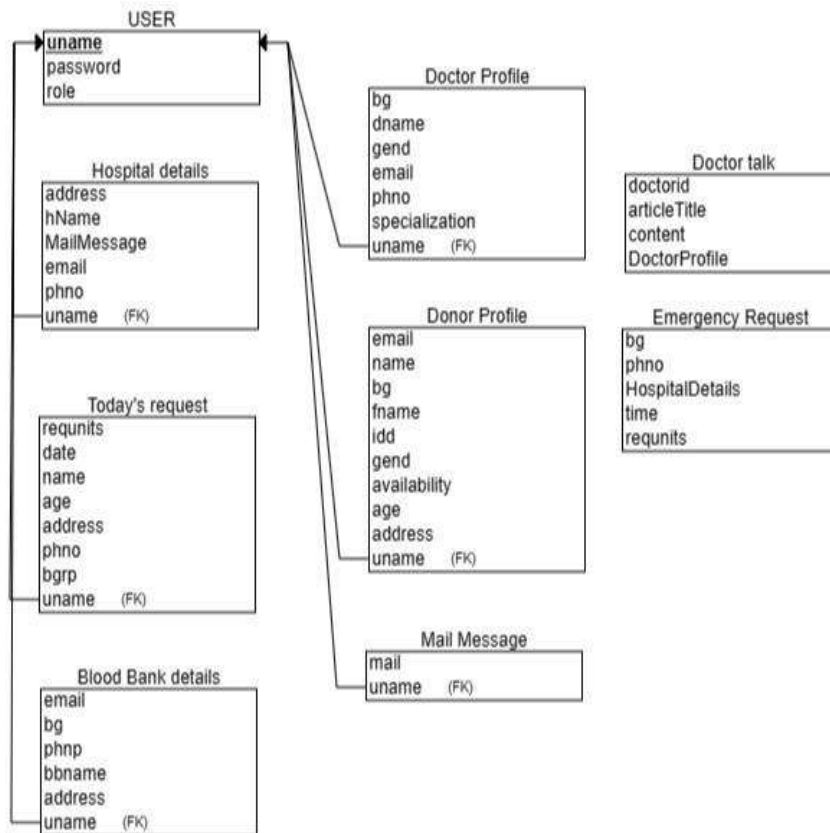
- Anyone can directly contact the doctor for further advise

- Doctor's Talk, doctor papers which are published can be accessed.

ER DIAGRAM:



RELATIONAL SCHEMA:



USER

uname	Password	Role
-------	----------	------

HOSPITAL DETAILS

Address	Hname	Mailmessage	Email	Phno	Uname
---------	-------	-------------	-------	------	-------

TODAY'S REQUEST.

Date	Name	Age	Requints	Address	Phno	Bgrp	Uname
------	------	-----	----------	---------	------	------	-------

BLOOD BANK DETAILS:

Email	Bg	Phno	Bbname	Address	Uname
-------	----	------	--------	---------	-------

DOCTOR PROFILE:

Bg	Dname	Gend	Email	Phno	Specializati on	Uname
----	-------	------	-------	------	--------------------	-------

DONOR PROFILE:

Email	Name	Bg	Fname	Idd	Gend	Availa bility	Age	Addres s	Uname
-------	------	----	-------	-----	------	------------------	-----	-------------	-------

MAIL MESSAGES:

Mail	Uname
------	-------

DOCTOR LINK:

Doctorid	Articletitle	Content	Doctorprofile
----------	--------------	---------	---------------

EMERGENCY REQUEST:

Bg	Phno	Hospitaldetails	Time	Requints
----	------	-----------------	------	----------