EASY BLOOD

Give blood

In this rash world where accidents and injuries are day to day encounters of life,
So we give you an easy solution
EASY BLOOD

The Idea is
To provide contact details of matching donor nearest to the person in need, to make blood accessible to him safely and immediately from a reliable source.

Description
This in an incampus project for students.

We ask the person in need of blood to fill out the following details:

- Name
- Blood group
- Department
- Undergraduate year
- Hostel number
- Preference: containing the following options
  - Class friends in hostel
  - Class associates
  - Hostel mates
  - Anyone with matching blood group

Now we compare the entered data with a college students database containing the details of all students in college like name, blood group, contact number, department, year, hostel number, etc.

First of all we find the students with matching blood group and then According to the preference we further classify the students based on their year department and hostel number.
Then we give user the contact details of the matching students.

The moto here is to provide the user the best possible match in his/her campus and make blood available to him safely and securely.

KEY POINTS

EASY AVALIABLITY OF BLOOD

NEAREST BLOOD CONTACTS

TRUST WORTHY SOURCE

GIVE BLOOD SAVE LIFE

WWW.EASYBLOOD.COM

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SRS DOCUMENT

I. Purpose

The purpose of the “EASY BLOOD” system is to simplify and automate the process of searching for blood in case of emergency and maintain the records of blood donors within the Campus or Society.

II. Background

A) Problem Statement

At present, the public can only know about the blood donation through conventional media means such as radio or News paper . There is no information regarding the blood donation programs available on any of the portal.

The current system that is using the blood bank is a manual system.
With the manual system, there are problems in managing the donors' records.
The records of the donor might not be kept safely and there might be missing of donor's records due to human error or disasters.

Besides that,
Errors might occur when the staff keeps more than one record for the same donor.
There is no centralized database of volunteer donors to keep the donors' records. So, it becomes really tedious for a person to search blood in case of emergency. The only option is to manually search and match donors and then make phone calls to every donor.

B) Project Goals and Objectives

The goals and objectives of the “EASY BLOOD” are as follows:

1. To provide “Easy Blood” to a person in case of any emergency.
2. To allow the probable recipients to make search and match the NEAREST volunteer donors, and make request for the blood by displaying their details.
3. To provide an efficient & secure donor by recording the donor details.
4. To provide synchronized and centralized donor database.
5. To provide easy & immediate retrieval of data and information.

C) Product Description

The system that is going to be developed is EASY BLOOD MANAGEMENT SYSYTEM (EBMS). This is a web-based database application system that is to be used by individuals in need of blood as a means to advertise the Nation wide blood donation events to the public and at the same time allow the public to make communication and request for the blood.
The system keeps the record of all the donors, recipients, blood donation programs. For internal works and activities intranet is used and for interaction with public internet
is used.
This system also has the ability to keep track of the donor's donation records .
This project intends to computerize the blood and donor management system
in order to improve the record management efficiency due to the grown size of
records of data.

III. Scope

The system can be used for maintaining all the process and activities of blood management system. The system can be extended to be used for maintaining records of hospital, organ donation, online blood bank management and other similar sectors. While developing the system, there shall be space for further modification.
There shall be a proper documentation so that further enhancement becomes easy.
As a whole the system is focused to work with Easy blood management system and on additional modification it can be also used as management systems of similar organizations.

A) Stakeholders

1) System Owner: Open Source Software
2) System Users:
- Administrators: has full privilege on the system's functions
- Public: can donate or can make requests for donation
(Donor and Recipients fall under this category).

B) Data

1. Data about Donor and recipients

- **Donor/ Recipient ID**
- **Name**
- **Date of Birth**
- **Sex**
- **Blood Group**
- **Department**

- **Undergraduate year**
- **Address(hostel no.)**
- **Contact Number**
- **Email Address**
- **Diseases (if any)**

➢ Preference: containing the following options

- Class friends in hostel
- Class associates
- Hostel mates
- Anyone with matching blood group

C) Processes

• Login

The system provides security features through username-password matching where only authorized user can access the system with different authorization level.

• Donor Profile Registration

This allows healthy public to register as volunteer donor.

• Online Request for Easy blood

This allows the probable recipients to make online request to the donor. After the request has been filed donors are matched and the request is displayed on screen with necessary details.

• Donor/Recipient Management

The records of all donors/recipient and their history are kept in one centralized database and thus reducing duplicate data in the database. The record of donation is maintained by the system.

Project Approach

Route:

- Problem Identification
- System Design
- System Building
- Testing and Implementation.

Deliverables:

The main deliverables of the projects are as follows:

- Requirement Specification
  - Use-Case Model

- Analysis Model will be used to show the realization of all use-cases conceptually

- Design specification will be used to specify the design for the realization of all use-cases including class diagrams

- Implementation model
  - Code and System.

- Documentation and Manual.

Managerial Approach

- **Team Building Consideration:**
  - Each of the team member will be given a job
  - The work division shall be on the basis of expertise
  - The progress shall be synchronized on weekly basis.

- **Training requirements:**

Web development languages.

  - HTML/CSS.
  - PHP
  - JavaScript.

Meeting Schedules

The meeting of the working team members shall be done on weekly basis.
This shall follow an objective of synchronized working and progress description.

Reporting Methods

Every one should prepare a report on the module upon which he is working. This report shall be used for documentation and manual preparation.

Constraints:

- GUI will be only in English , User Interactive & Easy to Access.

Technology

The technologies used for the development of the system are as follows:

1. Operating System: Windows.
2. Database Management System: MySQL
3. Programming Language: PHP, JAVASCRIPT
4. Web-framework: HTML/CSS
5. Browser: Mozilla Firefox, Google Chrome, Internet Explorer.

Bibliography

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