BLOOD BANK MANAGEMENT USING HTML

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Abstract:*Blood is a paramount to save the lives of human. Blood Bank approximately perform 35 to 50 transactions of blood bags per day. They maintain the details of the transactions along with the donor and receiver information. They maintain all this information using manual system, which is not efficient. This document briefs up the project titled "BLOOD BANK MANAGEMENT SYSTEM."As stated in Wikipedia.*

According to the medicinet only 10% of people in need of the blood actually get the blood. Although there are many blood banks available. A system with every required factor for blood donation is the thing that will improve the statistic.

Hence, we have created. A system where there will be different logins for hospitals, donors and seekers of the blood. They can login and put forward the request for the blood with the required blood group and amount. User can also see the Blood bank with there contact number so that they can directly contact to the blood bank. Hopefully this project will improve the overall statistics of accidents because of blood unavailability.

Key Words: Blood Bank Management, Blood Bank, Hospital, Donor, Erecipient.

I.   INTRODUCTION

In the kidshealth.org it says that Blood is a necessary element in the human body. Without blood, the human body is incomplete. Blood is about 7% to 8% of human weight, according to scientists. Blood is donated in the conventional way by blood donation services or blood bank. Blood bank is defined as an area where blood is obtained as a result of donor blood donation operation that is processed and preserved for subsequent transfusion (maximum twenty-eight days). Many Indian blood banks don't help the online database of blood donors. A huge amount of blood units are donated on average every year in countries like India. Approximately five lakh units of blood were registered as donated in India, the value of which increased to seven lakhs in the following five years, according to statistical study in 2011. Because of this enormous amount of donor data there must be an efficient and successful way of managing data that could make the online blood donation site a pavestone. It is a clear sign that blood donors rise with population growth. In addition to the blood handling issue, there is a possibility that data is obsolete and the process of data retrieval is also hindered by conventional manual operator's data entry techniques. The project is Factors such as gender, age, last blood donation date and other modern traditional methods, Blood donation frequency per year is not registered, which is of vital importance in this project and used as recruiting criteria for blood donation. The main aim of this project will therefore be to find more effective ways of managing the database of blood banks and blood donors and establish a forum for people connected to potential blood donors in the region. The donors of blood are recruited using a recruiting algorithm that is also a target of project.

II.   PROPOSED SYSTEM

- The system must provide user friendly interface.
- No need of any manual registration and form.
- Immediate information retrievel.
- Basic eligibility test for donators.
- Avoid monotony.
- Avoid loss and misuse of data.
- It is also secured as only registered administrators of the blood bank can have access to the application.
- Our new system covers all the aspects of the existing system.
- Features for the existing system such as. Bill provision etc.

The new system is been developed keeping in mind the current and future requirements of this organization. This system consists of following goals and has the scope as follows:

a) Goals:

- To simple the process of blood donation and reception
- To improve the existing system
- To be available every time.

b) Scope:

- To mechanize the complete operations of the blood bank.
- To advertise the nationwide blood donation events to the people and at the same time allow

the public.

- To make the online reservations and requests for the blood.
- The ability to keep track of the donor's information's and the blood stock in the blood bank.

To the ever-growing requirements of blood supply due to accidents and various health problems.

Module 1: Hospital Website

In this module the beneficiaries has to make use of hospital id which is registered in the hospital's database. It comprises of the cycle of how beneficiaries will demand for the necessary measure of blood from the blood donation center. The beneficiaries can check availability of blood of all blood groups in all the registered blood banks available in the system so that the request is not sent to a blood bank which is insufficient of the necessary blood.

Module 2: Blood Bank Website

This module comprises of the interaction in which how the requests from beneficiaries for the necessary blood are served. The bank will first check whether the request is a significant one. The blood donation center module additionally comprises of mentioning the blood when desperately required from different banks promotion from the enlisted givers who have saved their status as accessible for additional contact.

Module 3: GUI

A GUI (graphical UI) is an arrangement of intuitive visual parts for PC programming. A GUI shows protests that pass on data, and address moves that can be made by the client. The articles change tone, size, or perceivability when the client cooperates with them. It incorporates GUI objects like symbols, cursors, and catches. These graphical components are at times improved with sounds, or special visualizations like straightforwardness and drop shadows. Utilizing these items, a client can utilize the PC without knowing commands.

Module 4: Database

Separate database are maintained for the hospital and blood bank web which mainly consists of the registered donor's information, the database of hospital web which contains the records of available blood groups sample. Respective quantity available in every blood bank and blood samples which is contain in blood bank web. This will make them more reliable and also will make them scalable.

III. SYSTEM REQUIREMENTS

Programming Environment is a specialized determination of necessity of programming item. This indicates the climate for improvement, activity and upkeep of the item. Technology used:

- HTML
- PHP
- MYSQL
- JAVASCRIPT
- CSS
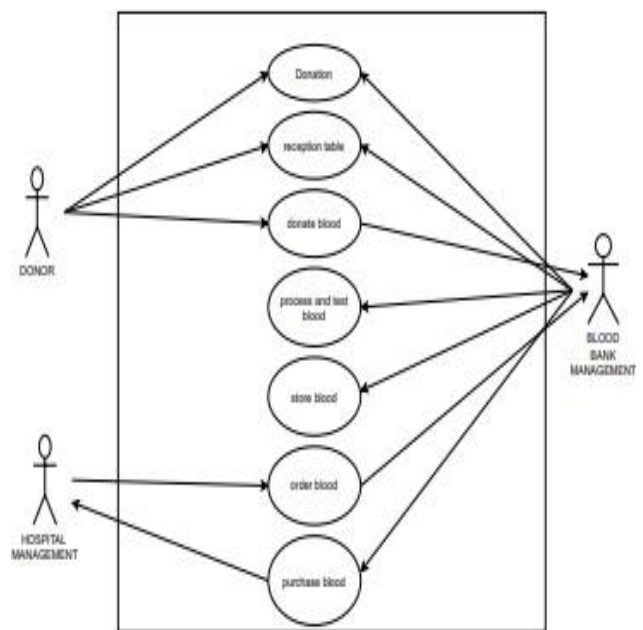
(A) USECASE

IV. SYSTEMIMPLEMENT

Here, in this project, we have made a website that can be used by blood receiver and donor both for taking and giving blood by requesting the blood and registering the desired blood group demand by registering from the nearby hospital very quickly and easily and with a good feedback and emergency help for the critical health patients.

ALGORITHM:

- Step 1:Start
- Step 2: Deciding whether you want to give or receive blood.
- Step 3: As per demand doing various logins like Donor login and Seeker Login.
- Step 4: Requesting the blood from the available hospital by filling various important Details like blood group, name, address, contactnumber, etc.
- Step 5: Signing up in the hospital login menu and if not member first registering on the website.
- Step 6: Searching for the donor and taking the donor contacts.
- Step 7: Registering for taking the blood from the donor by filling various Details like donor name, age, blood type, email, etc.
- Step 8:Stop

Results of website
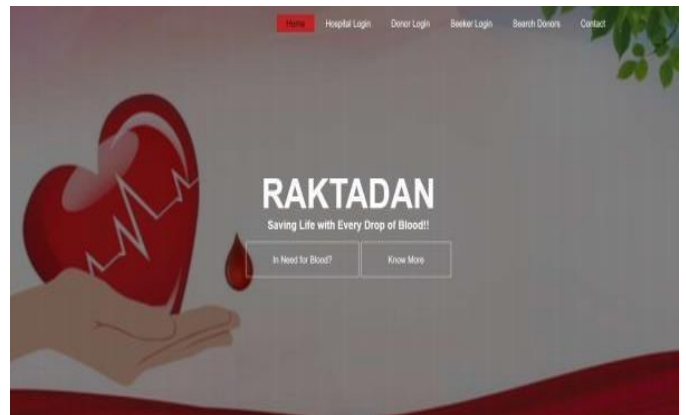
Fig1. Home page of website

Description:

The home page offers 4 options:

1. Hospital login: the user has to sign up from this option.
2. Donor login: the user has to login or register to get started with the website application.
3. Seeker login: user who is trying to find or in a search of blood will get information from this option.
4. Search donors: availability of blood in the blood banks can be checked.
5. Contacts: frequently asked questions by any user. With the help of w3school.com and HTML we created this homepage
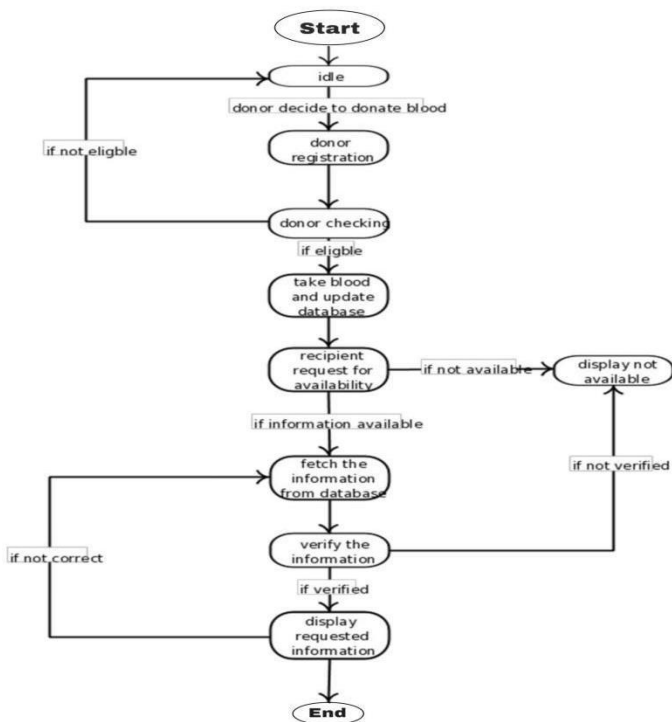
(B) FLOWCHART

V. RESULTS

Shows below are the screenshots of the various activities from the website along with their description.
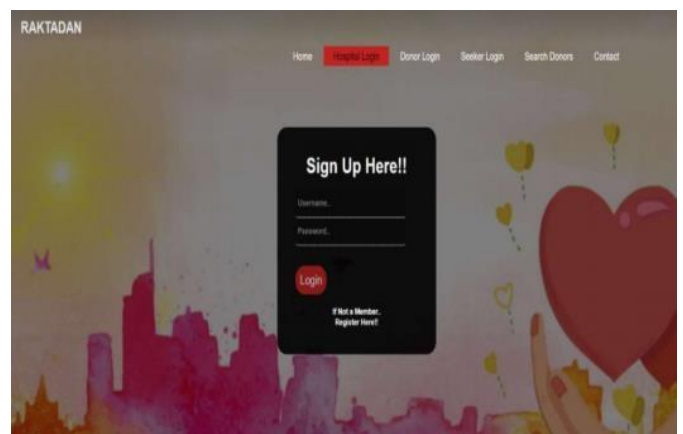

Fig2. Sign up page.

Description:

The user has to login or register to get started with the website. After clicking on login button, the entered password and the entered username will be sent back to end database and the user will be granted access if he/she is registered within the system.
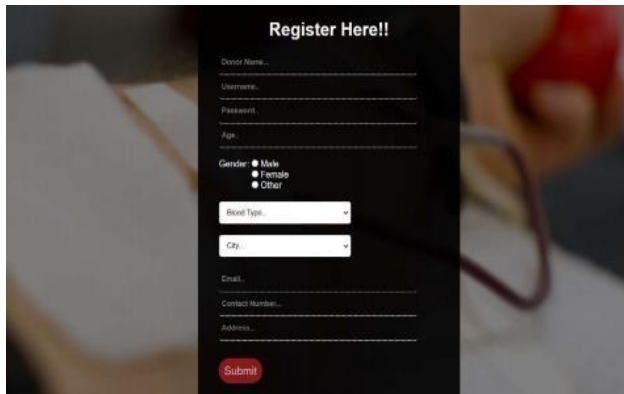
Fig3. Registration page

Description:

The hospital and the blood bank will provide a hospital id through which we can submit into the system. The hospitals and blood banks registered into the system will be access to the system.
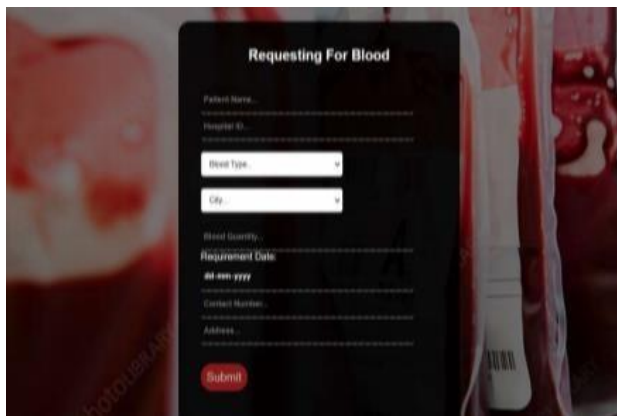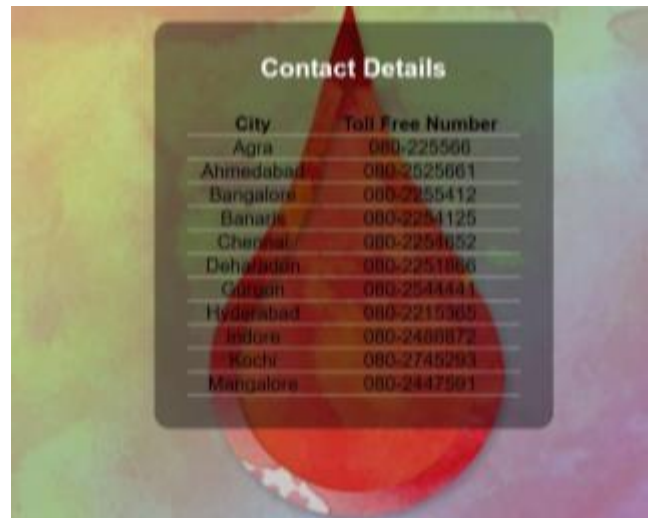HTML and CSS was used to create this registration page.

Fig4. Request page

Description:

Fig 5. Contact Page

Description:

A contact page is for user to contact the organization for any queries. It includes numbers as their city names so user can quickly find the right information. We created table and with HTML we created contacts list who provides the blood.

CONCLUSION

We have successfully implemented the project for 'Blood Bank Management System' to ease the access to the blood for everyone in need. This project was created using the scripting languages HTML, CSS and JavaScript for front-end, Laravel Framework for PHP, and MySQL for database connectivity for back-end.

This website eases the access to the blood of different blood groups required by the person in need. Any user can know about the nearby blood banks. This website also tells us about the blood stocks as it is regular updated by the respective blood banks. The overall information which is necessary for the donor is made available in this website hence making it easy for the user to handle.

This page can be used by the people and the blood banks to request blood from the blood banks. The request can sent by entering the name of the blood bank and the blood group of the necessary blood.

With the help of HTML we added all the cities name In which we needed blood for and created database for it.

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