MINI PROJECT – II

The Blood Bank And Donation Management System

SYNOPSIS

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Acknowledgement

It gives us a great sense of pleasure to present the synopsis of the B.Tech mini project undertaken during B.Tech III Year. This project is going to be an acknowledgement to the inspiration, drive and technical assistance will be contributed to it by many individuals. We owe special debt of gratitude to Mrs. Ruchi Talwar, Technical Trainer , for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal and for his constant support and guidance to our work.

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ABSTRACT

The Blood Bank and Donation Management System is a website that stores, processes, retrieves, and analyses data about blood bank administration. It also supervises blood inventory management and other blood bank-related activities. The major goal of the blood bank management system is to keep track of blood, donors, blood groups, blood banks, and stock information. It keeps track of all information concerning blood, blood cells, stocks, and blood. Because the project is all done at the administrative level, only the administrator can see it. A person who likes to donate blood gives his entire details i.e., fill in the registration form and can create a username with a password by which he can modify his details if at all there are any changes in his information given before. Blood is a crucial healthcare resource linked to saving patients' lives with accidents, surgeries,bleedingdisorders,pregnancyrelatedcomplications,inherited/acquired haematological diseases, and malignancies. Globally, about 118.5 million blood units are collected annually, yet the demand exceeds the existing capacity.

Contents

INTRODUCTION

Since blood cannot be stored for an indefinite amount of time, a constant source of blood donation is required. According to the WHO, the sustainable approach toward ensuring prompt and effective access to the sources of safe blood and blood products is to develop a nationwide organized blood transfusion program focused on voluntary non remunerated blood donors (VNRBD) . Recruiting voluntary blood donors remains one of the significant challenges for any blood transfusion service. Out of 193 WHO Member States, only 62 countries (32%) reported receiving more than 99% of their blood supply through VNRBD [1]. In general, blood banks face multifaceted challenges in resource limited conditions like rural areas of Bangladesh. Blood storage is a big concern due to the unavailability of continuous electricity supply in many parts of Bangladesh and other parts of the world. Improper storage can deteriorate the quality of stored blood, leading to wastage. Besides, blood from voluntary donors is challenging to obtain on short notice because of poor networking, the absence of databases of potential donors, and transportation.

SOFTWARE AND HARDWARE REQUIREMENTS

- VS CODE
- Xampp
- Web Browser
- 512 MB Ram
- Window 10

PROJECT DESCRIPTION

From the study it has been found that most of the people are unaware of their blood group. They even fear of donating blood. Although physicians suggest that a person can donate blood after every four months, people are reluctant to donate blood. Through seminar, campaigns, symposium, program in electronic media and printing media people can be made aware of benefits of donating blood regularly. An effective association of educational organizations and public and private commercial organization with transfusion medicine and other units where people go for searching blood can create a bridge between seekers and donors. In this regard, maintaining a central database of people involved in those organizations can reduce effort of getting donors and managing blood in case of emergency. Although a part of our population .

WORKING -:

There are several steps for using our systems.

Donor facility:

1. A donor can register himself as a donor
2. Adding his ability of donating the blood
3. Can see the request for blood

User facility:

1. Can see all the donors and blood bank
2. Can filter donor and blood bank according to the blood group and city.
3. Sending the request for the blood to donor and blood bank

Admin facilities:

1. Can see donors
2. Update, delete and verify donor

Manager facilities:

1. Manage Blood Bank

IMPLEMENTATION

Java script is a scripting language used to enhance the functionality of the browser. Java script is integrated with HTML and navigator 2.02. Java script facilitates the developer with properties related to document windows, frames, loaded documents and link.

REFERENCES;

[1] WHO Blood safety and availability, (n.d). https://www.who.int/news-room/fact -sheets/detail/blood-safety-and-availability

[2] Global Status Report on Blood Safety and Availability, 2016. https://apps.who.int/iris/bitstream/handle/10665/254987/9789241565431eng.pdf;jsessionid¼141CF566791CA5DA25317FC1083C9F98?sequence¼1

[3] WHO Voluntary Non-remunerated Blood Donation, 2011. https://www.who.int/bloodsafety/voluntary_donation/en/

[4] M.B. Islam, Blood transfusion services in Bangladesh, Asian J. Transfus. Sci. 3 (2009) 108–110.

Websites:

- geeksforgeeks.org
- www.google.com
- www.w3schools.com

Faculty Guidelines:

Mrs. Ruchi Talwar(Technical Trainer in GLA University)

GitHub Repository link:

https://github.com/Mayankvarshney25/MINIPROJECTII/tree/main/Blood-Bank-And-Donation-Management-System-master