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Blood Donation Awareness with the Help of Vendors and User Offers and Coupons

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ABSTRACT:

The goal of the suggested method is to increase blood donation awareness. The advantages of giving blood to individuals in need are endless. In the United States, someone requires blood every two seconds, and one donation can save up to three lives. It turns out that everyone who donates blood benefits. Along with the advantages of assisting others, donors can gain in terms of their health. Indians still don't think of themselves as blood donors. As a result, we will create a system for this suggested system that consists of three applications: one for users, one for compile a list of all available offers and submit it to the blood bank.

Keywords: Android App, Web Application, QR Scanner, Vendor, Blood Bank, user etc.

Introduction:

The Android system is an online blood bank management system that helps in managing various blood bank operations effectively. The project consists of a central repository containing various blood deposits available along with associated details. These details include blood type, storage area and date of storage. These details help in maintaining and monitoring the blood deposits. The project is an online system that allows to check weather required blood deposits of a particular group are available in the blood bank. Moreover the system also has added features such as patient name and contacts, blood booking and even need for certain blood group is posted on the website to find available donors for a blood emergency. This online system is developed on .net platform and supported by an SQL database to store blood and user specific details. This suggested framework aims to increase awareness of blood donation. Benefits from donating blood to those in need are virtually endless. One donation has the potential to save up to three lives, and someone in the US requires blood every single day. It appears that giving blood benefits more people than only the recipients. In addition to the benefits that result from aiding others, benefactors also enjoy medical benefits. Still, there is no blood donation mentality among the Indian people. So, under the framework that is being presented, we'll provide a framework that includes client applications, seller web applications, and applications for blood donation centres. The seller will present an offer and outline all of the suggestions to the blood donation facility. This proposed system aim to spread awareness of blood donation. There's no end to the benefits of donating blood for those who need it. One donation can save as many as three lives, and someone in the United States needs blood every two seconds. It turns out that donating blood doesn't just benefit recipients. There are health benefits for donors, too, on top of the benefits that come from helping others. Still in an Indian people don't have a mentality to donate a blood. So, in this proposed system we will develop a system that will include a User Application, Vendor Web Application and Blood Bank Application. Vendor will create an offers and list all that offers to the blood bank. After user donates blood then blood bank will assign one coupon or offer to the user. This system is just trying to create impact in blood donation ratio among people. With the business point of view this system will create a life cycle among all three applications.

Literature Survey:

Recently, various approaches for blood bank database systems have been proposed in the literature. Few of the relevant methods are described here: The Optimization of Blood Donor Information and Management System by Technopedia Priya et al. introduced an android mobile application with GIS that establishes a productive, organized, and secure Information Management System. The proposed solution detects fake donors and the misuse of information by users of the application. Also, quality checking of blood at various levels is introduced. It is required for the safety of the patients. A Study on Blood Bank Management System Teena et al. designed an efficient information management system that maintains records of donors and patients. It has a security layer that allows only authorized employees of the Blood bank to access and update the records through a login using a secret password. Effective Blood Bank Management Based On RFID in Real Time Systems Pramodini et al. have created a database system which minimizes human error. Most of these errors occur during Xa blood transfusion. They have ensued a Blood bank DBMS based on RFID that strives at mitigating these errors.

Working:

Blood Bank: Web application to track donor history of blood donations and will have a validations using users unique ID. User cannot donate blood till 3 months completed from last donation.

Vendor: Web Application to create offers and coupons and transfer it to the blood banks and blood bank will assign those coupons to user to redeem it from vendor.

User: user will have an android app. It'll be easy to user to access coupons and offers easily. App also have a sign up and sign in for user.

Availability: Availability of blood bank will be on user side. This system check whether required blood deposits of a particular group are available in the blood bank.





Proposed System:

This section shows major algorithms and their illustration used. This proposed system aim to spread awareness of blood donation. There's no end to the benefits of donating blood for those who need it. One donation can save as many as three lives, and someone in the United States needs blood every two seconds. It turns out that donating blood doesn't just benefit recipients. There are health benefits for donors too on top of the benefits that come from helping others. Still in an Indian people don't have a mentality to donate a blood. So, in this proposed system we will develop a system that will include a User Application, Vendor Web Application and Blood Bank Application. Vendor will create an offers and list all that offers to the blood bank. After user donates blood then blood bank will assign one coupon or offer to the user. This system is just trying to create impact in blood donation ratio among people. With the business point of view this system will create a life cycle among all three applications.



Fig 2 Proposed Syste

Results:

1.Enhanced Blood Donation Experience: The project aims to improve the overall blood donation experience for donors. By providing a user-friendly Android app, donors can easily access a list of blood banks, their addresses, and the offers available when they donate blood. This convenience encourages more people to donate blood, increasing the blood supply for those in need.

2.Increased Donor Engagement: The Android app allows donors to view and redeem offers assigned to them by the blood banks. This creates a sense of appreciation and motivation for donors to continue contributing to the cause. By engaging donors through offers, the project fosters a positive relationship between donors and blood banks, leading to long-term engagement and potentially repeat donations.

3.Efficient Blood Bank Management: The web application for blood banks streamlines the process of assigning offers to donors. Blood banks can easily view a list of registered users and assign relevant offers based on their needs and preferences. This improves the efficiency of blood bank management, ensuring that offers are distributed appropriately and effectively to incentivize blood donation.

4.Increased Footfall for Shopkeepers: The web application for shopkeepers enables them to generate offers that are displayed in the blood bank application. By providing attractive offers to donors, shopkeepers can attract more customers to their businesses.

Conclusion

In conclusion, the blood bank donation project provides a comprehensive software solution to streamline the process of blood donation. The project consists of three main modules: the User Application module for blood donors, the Shopkeeper module, and the Blood Bank module. The User Application module allows blood donors to register themselves, view available blood bags, and redeem offers from participating shopkeepers. Donors are also provided with information about their eligibility to donate blood, ensuring comopliance with the required waiting period between donations. This module aims to enhance user experience and encourage regular blood donations. The Shopkeeper module enables shopkeepers to generate offers and assign them to blood banks participating in the system. This feature facilitates the incentivization of blood donation by providing exclusive discounts or benefits to donors. Shopkeepers can manage and update their offers, ensuring effective collaboration with blood banks and encouraging donor participation. The Blood Bank module focuses on managing the blood donation process and coordinating with donors and shopkeepers. It handles tasks such as receiving blood donations, recording donor information, and maintaining an inventory of available blood bags. The module also facilitates the assignment of offers to eligible donors based on their donations, ensuring a seamless flow of information between blood banks and donors

References:

List all the material used from various sources for making this project proposal

- 1. Online Blood Bank Management System by Chetan Masram, Arshad Mulani (June 2021)
- 2. Blood Bank Management System by Rohit Remella, Shubham Tomer, Saurav Tomer (April 2019).
- Blood Bank Management System Inventory Control Database Management System by Aman Shah, Devanshi Shah, Daksh Chordiya, Nishant Doshi (November 2021)
- 4. Development of a Blood Bank Management System by Sumazly Sulaimana,*, Abdul Aziz K.Abdul Hamid (2013)
- 5. Blood Donation Management System by Devanjan K. Srivastava, Utkarsh Tanwar, M.G.Krishna Rao, Priya Manohar (2021)