

LITERATURE SURVEY

HOSPITALS AND BLOOD DONORS FINDING SYSTEM USING ANDROID

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CONTENT: The use of ICTs in healthcare organizations around the world has changed as a result of their rapid growth. This paper developed a novel hospital management system application that meets our daily demands. Those in need can look into the hospital based on their needs. This application is primarily made for claims made by civilians. The needy are identified together with the nearest medical facility and its associated distance. There are two main modules: the admin module, where the administrator can update, modify, and delete the details; and the user module. A user interface for the average person looking for a particular treatment, facility, specialist, etc.

ADVANTAGES: Users can search for hospitals and donors without having to log in when there is an emergency. Using GPS, it delivers information on areas close to the user's location. Since the initial real-time data has been gathered, there is no other option for data.

DISADVANTAGES: Collecting the real time data like nearby hospitals, specialist doctors and the facilities that are available in the selected hospitals and Sorting the hospitals according to the distance in the application using the location API are difficult sometimes.

INSTANT PLASMA DONOR RECIPIENT CONNECTOR WEB APPLICATION

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CONTENT: Compared to before, the COVID-19 pandemic saw an upsurge in the demand for plasma. In order to collect plasma from donors and connect them to those in need, this application was created. If the hospitals in need that are linked to the website or application may accept the donor request and gather the necessary plasma and store them, the donor will update the status with his COVID certificates in this. If blood banks have accepted their request, donors can view their needs and, if they are nearby, get in touch with them directly to help them. If not, doctors or individuals connected to patients can get in touch with donors for plasma if it is urgently needed. Additionally, using their logins, individuals can update the information about plasma needs on the website or application.

ADVANTAGES: By gathering the donors' reports and then granting access to the site, this web application offers users the best and most convenient way to determine whether the contributors are eligible.

DISADVANTAGES: Accepting the requests may take time in this situation, which results in the death of patients who are in need.

D'WORLD: BLOOD DONATION APP USING ANDROID
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CONTENT: The main aim of the project D'WORLD is to spare existences of individuals by giving blood. A blood donation seek app utilizing android is grown with the goal that clients can see the data of close -by donors. Haversine Using latitude and longitude location, a mathematical formula may be utilized to determine the distance between two places in a circle. This formula was employed in this project. gives the location-based search system faster determination. The application is enhanced for safety in the following ways: such that a connection is made with the Department of health and welfare checking medicinal case history of the donors. This application gives the required data in specified time. The primary reason for our task is to interconnect all the blood giving benefactors into a solitary system, approving, putting away their information and data of blood and strength of every person.

ADVANTAGES: It offers data set security and the quickest searching method. defines the personality of the user, which may be used to enhance a variety of goods and services. Digital services could be created with the reviewed personality in mind.

DISADVANTAGES: Programming language, processor, coding context, available trig processes (in various languages), etc. may influence the alternatives. For all small distances, an equi-rectangular accuracy is to be more ideal.

BLOOD BANK APP USING RASPBERRY PI
Surabhi S.Pohandulkar, Chhaya S.Khandelwal.

CONTENT: The "Blood Bank Application Using Raspberry Pi" paper argued in favour of putting blood banks and those in need of blood close together in the event of an accident or other emergency. This application's goal is to shorten the period between the donor and the beneficiary. Currently, there are many systems in place to connect blood banks with donors and those in need of blood. But relatively few of them are able to perform to the required level. The connection between the blood bank and the person who needs blood is the most crucial phase in the process. The two most crucial pieces of information will be the address and phone number. so that in an emergency, the recipient can swiftly receive help. Here are details on the several key components of them. The suggested system contains The Raspberry PI works as a processor and web server with the help of a global positioning system to speed up communication between the blood bank and the recipient and to retrieve the details of blood banks nearby the recipient's location.

ADVANTAGES: Reduced communication between the person in need of blood and the nearest blood bank or volunteer blood donor is the goal of the blood bank application using Raspberry PI.

DISADVANTAGES: The proposed system includes With the use of GPS, the Raspberry PI serves as a processor and web server that facilitates communication between the blood bank and the recipient. It only assists the recipient if the blood bank is located close to where they are; if they are far from the donors, it is of no assistance.

ANALYZING BLOOD DONATION PROBABILITIES AND NUMBER OF POSSIBLE DONORS
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CONTENT: Many important donor data were used in the paper. The data used included a donor's last donation time and frequency of blood donations. The usage of these data types was crucial in developing a method for calculating the likelihood of blood donation. In this study, different models were created by using blood transfusion data set for blood transfusion prediction. In this study, a structured analytical approach known in the data mining field as Cross industry Standard procedure for data mining (CRISPDM) is used. Parameters in the data set and compare the performance criteria for the estimated results of the models created. Thus, it can be established which machine learning method performs better on the blood transfusion data set. While a medical professional's diagnosis is extremely valuable, data science makes disease diagnosis and prediction more safer. With the help of this study, it will be possible to identify blood donors in advance, which will help to avoid the need for blood.

ADVANTAGES: In this work, various models for blood transfusion prediction were developed utilizing a blood transfusion data set. It is believed that employing machine learning models will strengthen the relationship between blood donors and recipients. The likelihood that the blood donor will donate in March 2007 was also estimated. These discoveries might help us avoid dangerous circumstances. This may make it simpler to locate the ideal blood donor as quickly as possible when blood is required.

DISADVANTAGES: By focusing on the dataset, we can see that the average value of Recency is 9.506, but these values range from 0 to 74. The average value of Frequency is 5.515 and these values range from 1 to 50. These values are low. It is a disadvantage of this application.

MOBILE APPLICATION ORIENTED TO THE ATTENTION OF BLOOD DONORS IN THE MEDICAL CENTERS OF NORTHERN LIMA

Alfredo Junior Chiara Sotomayor, Laberiano Andrade-Arenas

CONTENT: This Android app was created to make it simpler for people to donate blood in society. Both the patient's and the beneficiary's perspectives are used in this application. We have a login validation process here for the application. The rate of blood and plasma donation in society rises as a result. Although the scrum agile process is quite busy, planning is done in a clearly defined manner in this prototype. Additionally, they have employed tools like Android Studio, which is still another laborious duty to manage. Moreover balsamiq is used to prepare the interface of the application which can now be replaced with different new technologies. The ability to connect several enterprises through a single platform is another benefit of this application. 95 participants in the study initially produced very poor results, but after spreading awareness, more people started donating blood, expanding the potential of the application.

ADVANTAGES: Project planning is a well-known feature of the Scrum and sprint techniques. They have generated outstanding outcomes over the history of the software. This is the main benefit.

DISADVANTAGES: The two biggest limitations of this application are that there is no protection for personal information and processing too much data is difficult. So this is a failure in this process.

BLOOD DONATION AND LIFE SAVER APP

Annish Brislin M R, Albert Mayan J, Aroul Canessane R, Anish Hamlin M R

CONTENT: The application in this approach has four modules: administration, donors, patients, and applications. This model was created using cutting-edge technology like machine learning to locate the patient's closest donor using the K-nearest neighbor technique. Once the verification is complete, the administrator will notify the user. This project includes a brand-new function that identifies blood types to ensure proper blood intake for rare group components and the quantity of blood drawn from a donor by reviewing all of their medical histories. If urgent blood is needed, a GIS idea is employed to follow the donors close to the patient. Additionally, a new user's login is authenticated using an advanced OTP method. And a dataset is included to train them to find nearest neighbours. This model's primary goal is to save data from applications developed by third parties. Thus, it is obtained ultimately.

ADVANTAGES: This application is more fascinating and distinctive because of its key features, such as finding the closest donor and data authentication for better and safer experiences.

DISADVANTAGES: Handling all of this data is a challenging endeavor, and storing it without the threat of hackers is a significant issue.

BLOOD BANK INFORMATION SYSTEM USING ANDROID APPLICATION

Neetu Mittal, Karan Snotra

CONTENT: In times of need, having blood on hand is absolutely essential for all living things. For efficient communication, there are numerous electronic blood donation centers between them and the hospitals. There is no online blood donation center that provides quick communication between recipients and them. This is the actual drawback of the present framework. The current frameworks are cumbersome and demand higher cost and greater labor. The link between current blood banks is presented in this research improved foundation and framework to improve the effectiveness. The effectiveness could be improved by the new factors of existing blood banks and aid in the transformation from standard portable framework to desktop framework. The suggested work also goes into detail into the elements of an improved framework from a variety of angles, including the data being saved, data for use in the future.

ADVANTAGES: The primary goals of this application are to assist those who need blood immediately and to facilitate effective communication between donors and recipients.

DISADVANTAGES: This methodology was unsuccessful in accurately gathering donor health information and maintaining it in databases.

mHealth: BLOOD DONATION APPLICATION USING ANDROID SMARTPHONE

Muhammad Fahim, Halil Ibrahim Cebe, Jawad Rasheed, Farzad Kian

CONTENT: mHealth is a new frontier in healthcare that provides medical services using mobile devices and modern methods of communication. Blood is used in healthcare services. Finding donors takes time since the process is complicated. Somebody whose blood type is compatible with the patient's. As mHealth solutions, we created an android-based blood donation application to connect the requester and donor at any time and anywhere. This application's goal is to provide details about the needed blood and the number of potential donors in the area. Our application helps the requester reach out to the maintained volunteer blood donor network and updates the requester on who is willing to donate the requested blood at the same time. In order to assess the effectiveness of our application, we developed requester-donor profiles and determined how they would help to enhance timely information access and prompt action in an emergency.

ADVANTAGES: This is one of the top Android applications for blood donation services, and users benefit more from it.

DISADVANTAGES: The storing of data in database and cloud and retrieving and handling them is a tedious task.

SMART BLOOD QUERY: A NOVEL MOBILE PHONE BASED PRIVACY-AWARE BLOOD DONOR RECRUITMENT AND MANAGEMENT SYSTEM FOR DEVELOPING REGIONS

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CONTENT: There is an unparalleled possibility for mobile healthcare applications due to the increase in the quantity and capability of mobile devices like mobile phones as well as the general availability of affordable services. One of the most intricate management structures in the healthcare industry is the blood donation and transfusion business. Safe blood donor recruitment (BDR) and donor care are the foundation of a Blood Transfusion Services (BTS) quality management program. Except for Thailand, nearly all of the countries in the South-East Asia Region (SEAR) rely largely on donor blood to replace lost blood. In this study, we offer a location-aware mobile phone-based system for recruiting blood donors, information retrieval, and management that intends to guarantee the quality of the blood and boost operational management effectiveness. Here, an effort has been made to take use of the capabilities and widespread use of the typical mobile phone to create a life-saving mobile health care application that offers greater user convenience.

ADVANTAGES: In this process, multiple blood collection and filtering devices are employed to get diverse blood types for various therapies.

DISADVANTAGES: It's not a well defined application for this technique, and it's an inappropriate use.