Abstract—Blood is the vital thing for human being because there is no alternative for replacing it. This makes it necessary for the presence of a system for predicting continuous behavior of healthy blood donors in blood transfusion organization. The aim of predicting behavior of donor’s is to determine and collect proper information about the blood donor, his health status and blood groups for providing future continuity to blood bank. As the Urgent need of blood is rapidly growing it is desire need to find the blood donor information properly and efficiently. It is becoming more and more difficult to extract the information using the conventional database techniques. So, in this paper we proposed the solution for properly mining the proper and required donor information from large amount of blood donor’s database. It is necessary to analyze the blood donor database, along with his information from blood banks as it is useful when urgent need occurs. For retrieving the proper information from large database related to the blood donor’s data mining is used to analyze their availability, number of donors and all related information. There are various different techniques and algorithms present in data mining like classification, clustering, association, etc. which suits better for desired task.

Keywords—data mining technique, PHP, donor, blood donation, website.

I. INTRODUCTION

Nowadays information and computer technology has gaining more importance in medicine and healthcare sectors, as it is needed to make it efficient by computer technology(CT) to database system. As the medical information and healthcare sectors repositories data is complex in the computer technology it explores the use of data mining field.

Blood is always in great demand from the past, but nowadays as the population grows the ratio of road accidents, disease and medical surgeries are also growing in same amount. The blood and their donors are very much important as it cannot be manufactured and only can come from generous donors.

In this study, will study how to give proper and timely delivery of blood by using data mining. The motivation was to create an application to create a common platform between donors, recipient, and blood banks too.

In this study, there are lots of factors to be considered while taking the blood from any donor. As its registration with all his personal information, last donation date and any reaction occurred, blood group etc. These all stored information is possible to access with the different techniques of data mining like classification, clustering, prediction etc. these techniques give the segments of potential blood donors in terms of identifiable characteristics, behaviour patterns, and it also suggest properly at the time of blood requirement in urgent cases.

Therefore, we use data mining tools and techniques for finding best donor which can help the person in need.
II. EXISTING SYSTEM
There are many systems that are already being implemented. Such as-

2.1. Traditional Blood Bank System:
- The recipients or the hospital have to connect to the various blood banks manually.
- After getting into connection, they have to fill up the form and various other credentials to get the blood from the bank.
- After hustle amount of time and effort, the recipient gets the blood which creates problem during emergency time.

2.1.1. Disadvantages of Traditional Health Monitoring System:
- Before turning to the online based system, there was no connection between the donors and the recipient.
- Time consuming.
- Not very user friendly

2.2. Bharat Blood Bank:
- This system helps the recipients to search the donor according to their location.
- This system also has donor login where generous donor can register themselves.
- This system also has various information about blood donation and other things related to blood.

2.2.1. Disadvantages of This System:
- Cannot provide high precision performance.
- No records of recipients which can cause problem.
- Availability problem of blood in every location.
- No application available on mobile phone which decreases the ease of it.igh precision performance.

III. OUR SYSTEM
Our system aims at increasing the blood donation process in our country. There are many ways we could have implement this project but we made our system based on Data Mining Technique, because this technique gives precise donor in the given for that blood group with contact information and if we are not able to find the donor, one can even find the nearby blood bank where that blood group is available and if didn’t find any donor their we will help them to find the donor in the nearest place than the given place. This system helps to reduce the paper work. We also focus on increase the scope of transmitting the information over the internet in order to provide donor at every possible place. It also brings together various Blood Banks and volunteered Blood donor.

3.1. Advantages of Proposed system
- Less Time consuming.
- More efficient than the existing system.
- The system is flexible, and can work on any android devices.
- Efficient final result.
- There are many option for the recipient to look upon which will decrease the problem of unavailability.
- It is easy and comfortable in use.
- No training is required.
- The project is also developed in such a way that the user, new to the system will just have to install the set up and it is ready to go.
3.2. Working

Figure 1. Home Page

Figure 2. Sign in
Figure 3. Donor Registration

Figure 4. Donor Registration
Figure 5. Blood Request

Figure 6. Request completion
Figure 7. Contact us

Figure 8. Frequently Asked Questions
We are currently working on developing Android Application also. After which we will develop iOS Application.

V. CONCLUSION

We get much important knowledge about how the data mining task improves the most important blood donation process. Blood which is vital important and cannot be manufactured by anyone is going on increasing its demand by all over the countries in the world due to the increase in the number of accidents and surgeries And the need of blood occurs many times on urgent basis and at that time it’s not possible to get proper donor information fast. So, for gaining this information easily and efficiently we can use the data mining technique that are proper for this task that is useful to provide required information from large datasets. In this project, we used Classification technique by using the algorithms like k-NN Method and classifies the donor’s information from the large datasets in classes.

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