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An Approach for Providing Technological Strategy for Human Body

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Abstract: ***The purpose of this study was to develop a blood and organ information system to assist in the management of blood and organ donor records and control the distribution of blood and organs in various parts of the state basing on the individual demands. Without quick and timely access to donor records, creating market strategies for blood and organ donation, lobbying and sensitization of blood and organ donors becomes very difficult. The blood and organ information system offers functionalities to quick access to donor records collected from various parts of the state. Through this application any person who is interested in donating the blood and organs can register in the same way if organization wants to register itself with this application can also register. Moreover if any general consumer wants to make request blood and organ online can also take the help of this application. Admin is the main authority who can do addition, deletion and modification if required.***
Keywords: organs, lobbying, sensitization, donor

I. INTRODUCTION

This is a android application allows you to access the whole information about Life guard software , readily scalable and adaptable to meet the complex need of Blood banks who are key facilitator for the Healthcare Sector, it also supports all functionalities of Blood bank.The people in need of blood can search for the donors by giving their blood group and city name. It saves time as user can search donors online without going anywhere. Using this system user can get blood in time and can save his relative or friend life. Our android application work 24x7 so user can get information of blood donor any time. Blood donor can also get registered and save life of other person. The main benefit of this system is the information of available blood group. When blood is need in the operation then people have very less time in his city is life saving. And here our system work, whenever a person need blood he get information of the person who has the same blood group he needs.Blood Donor Database is developed fora android mobiles where blood banks and hospitals can look for donors in their nearby area who will be available in quick time. Similarly, blood donors can also look for blood banks and blood donation camps in an area nearest to them to donate blood. This application will make the job easier for blood donors and blood receivers.This work will help all the blood donors and receivers to find each other easily and accomplish their cause. The user can simply register by entering some personal details such as name, e-mail, organization name, address and phone number. An account for the user will be created and he/she can login to get the required information. The most useful feature of this application is that the donor or the receiver can find each other in the area specified by them. The private information of the donor will be kept confidential and only registered organizations and authorized personnel can access it, only if the donor gives permission to access it. Some of the main differentiable and laudable features which make us stand out in crowd are user interface which facilitates even the beginners understand app and its use, provides accurate data with background check, provides geo-location services, admin services provided by an authorized individual and also detect fraudulent personnel and serve only the needy, Provides security for the data in the app so that only authorized person can modify the content. The basic constructs of table spaces, clusters and indexes have been exploited to provide higher consistency and reliability for the data storage. The user interfaces are application specific to give distributed accessibility for the overall system

II. SCOPE

Since this application is confined to a single state, there is scope to develop it and can be used in all the states of India. Vast information can be added into it, to make the Application more precise and accurate when compared with the present version.
The effectiveness of the donor selection process is enhanced if relevant information and counseling are provided to prospective donors, enabling them to self-defer if they recognize they are unsuitable to donate blood. Blood donors may be deferred, either on a temporary or permanent basis, on the grounds of their health status, medical or travel history. Pre-donation counseling is particularly important for individuals who are temporarily or permanently deferred from blood donation, as it provides them with clear information about the reasons for deferral, maintaining healthy lifestyles, and referral for further testing, treatment, care and support, as appropriate.

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Temporarily deferred donors should be encouraged to return after the defined deferral period is over. However, some donors may decide not to return because of what they perceive to be a negative experience and the fear of being rejected again. Empathetic counseling may lessen a sense of rejection and encourage temporarily deferred donors to return after a suitable interval. Effective counseling may thus minimize an unnecessary loss of blood donors and motivate those who are unable to donate blood. Donor retention or loss is related to how donors feel about the blood centre and donors with a positive experience are more likely to encourage their friends to donate blood.

III. OBJECTIVES

A. To help the people who are in constant requirement of blood and organs.
B. To provide awareness to the people.
C. Adaptable to meet the emergency and complex need of Blood and Organs.
D. To provide accurate data of Donors.
E. The steps in the blood donation process and the rationale for each step, and assurance of the safety of the donation process.
F. The paramount importance of the safety of donated blood for transfusion recipients, which can be achieved through donor adherence to donor selection criteria relating to their health and risk.
G. The importance of voluntary non-remunerated blood donation, particularly regular donation, to maintain an adequate supply of safe blood for patients who require transfusion.

IV. ARCHITECTURE

The goal of life guard is to ensure the safe and efficient use of the many resources involved in the complex process of blood component therapy.Our experience with comprehensive blood management programs has demonstrated sustainable reductions in the use of blood products by twenty percent or greater. This reduction reflects a more efficient utilization of blood and its associated resources, along with improvements in patient safely and the quality of care.In the design step, the element of the analysis model gets converted into a data design, an architectural design, an interface design and a procedural design. The data design transforms the information domain model created during analysis into the data structure that will be required to implement software. The architectural design depends upon the relationship among major structural elements of the program.

The Android Application consists of Information available to be used when a person is deprived of Blood and Organs. This Application has various categories like receiver, donor, blood bank, my location, admin, about us, contact us. As a result of short research done on the present scenario which prevails, the application is emerged. Medical Facilities have been the foremost requirement of the human existence since ages. Android has been an emerging platform and has reached almost every household, blending in the requirements with the technology helps in making people's life easier. The Application can be used by all ages of people. The Application is focused to be a major innovation where it can be deemed as a requirement in the near future. The main propaganda of this application is, it can be used in case of medical emergency where there is an immediate requirement of blood and organs.

The part presents main concepts for application development. There are four types of application components: Activity, Service, Broadcast Receivers, and Content Provider. Android application may consist of one or several of these components types. Activity presents user interfaces that users will interact with. For example, in text messaging application, one activity presents the user interface to let users write message to others. All activities are written through extending Activity base.

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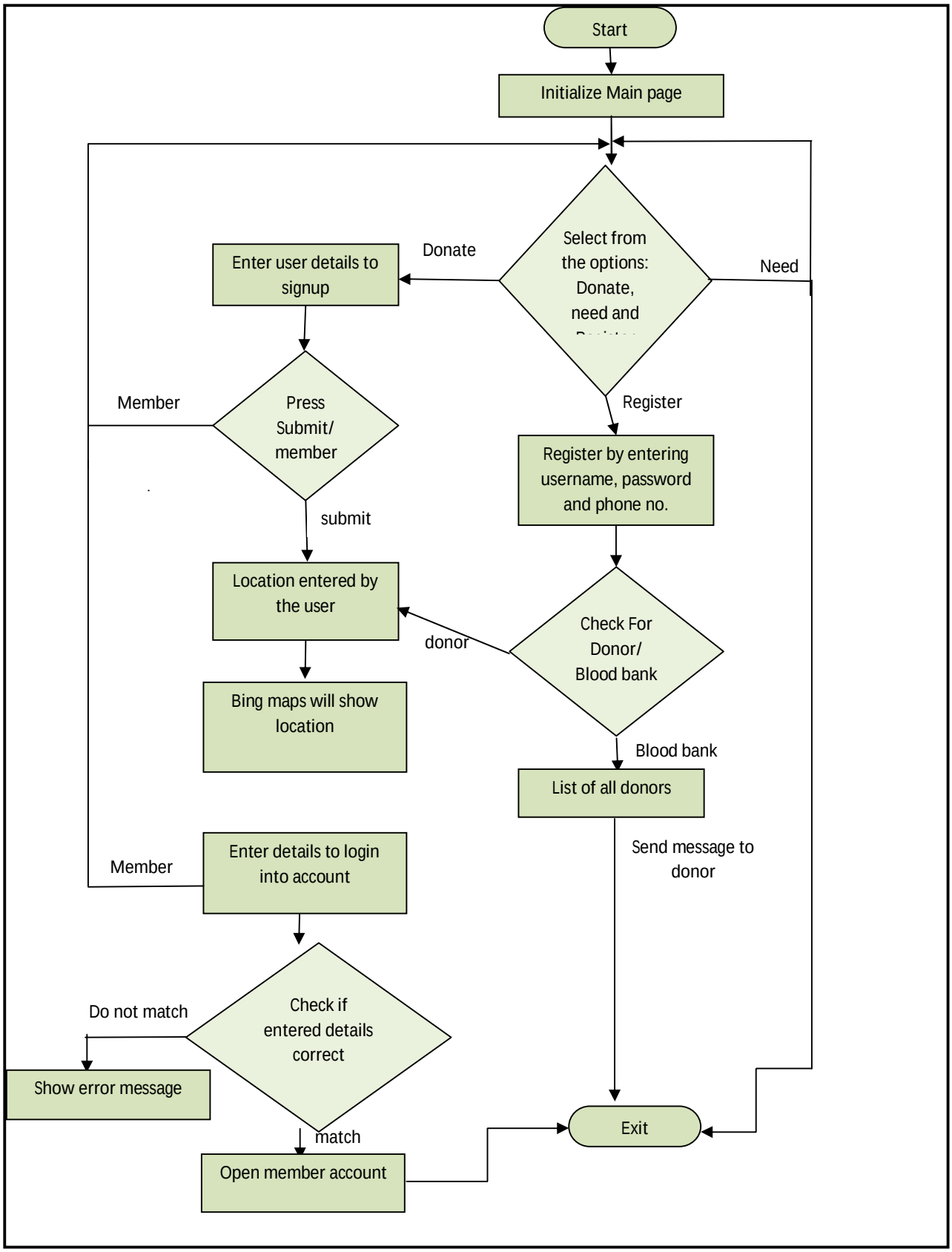

Fig. 1 General Architecture

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V. CONCLUSION

The conclusion is that we have a better system which will help in better interaction between the blood donors and the blood banks. This application has a wide usage and will encourage donors to donate blood.The user can read information about blood and the basic requirements for a donor.The donor can find blood banks in his nearest area via maps or call a blood bank in his area by the numbers provided in the application.The blood banks can see a list of donors of a particular blood group and can contact them to donate blood.The system is scalable and allows any number of different devices to be added with no major changes in its core. The blood and organ information system offers functionalities to quick access to donor records collected from various parts of the state. Through this application any person who is interested in donating the blood and organs can register in the same way if organization wants to register itself with this application can also register.

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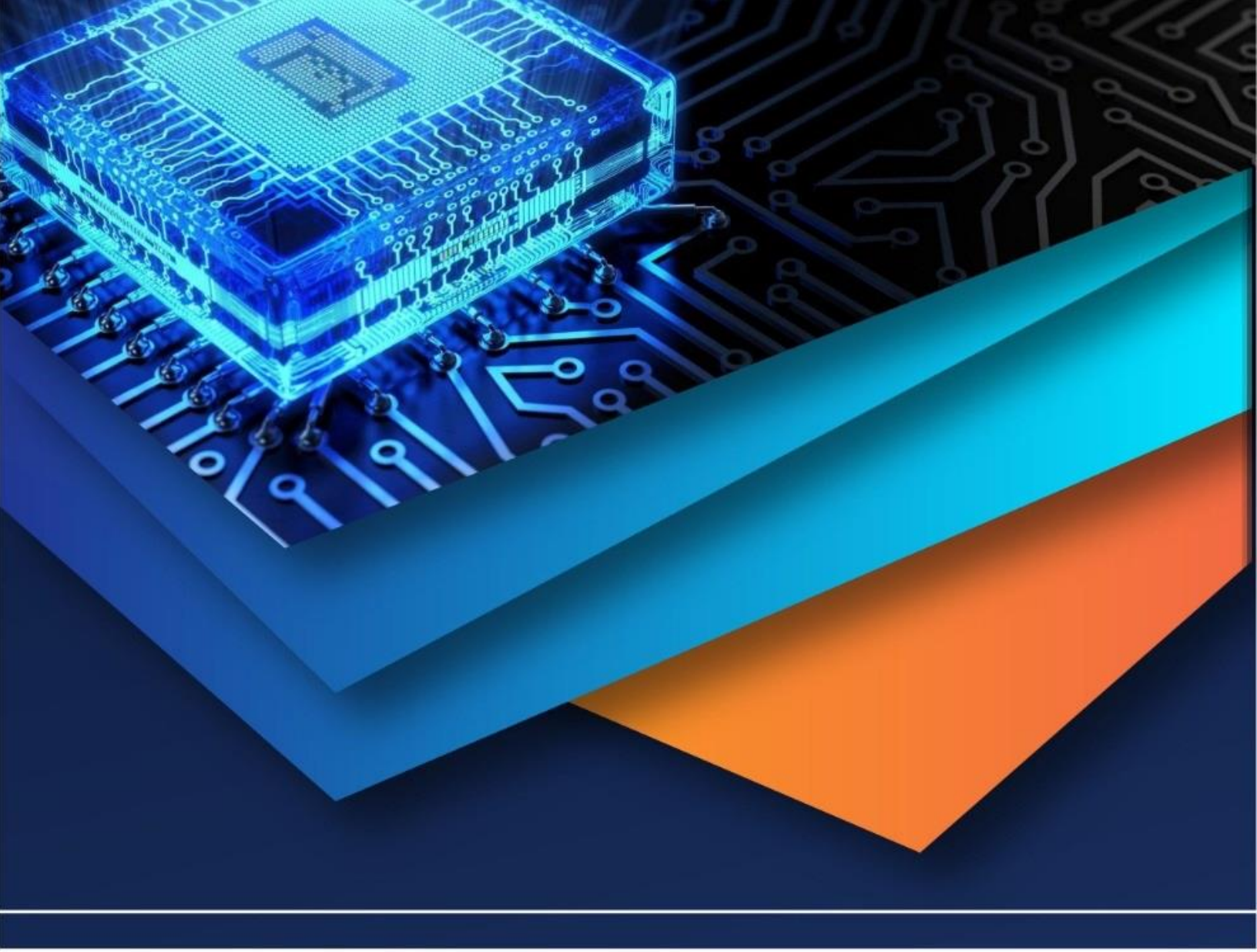

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