GIVING = LIVING: A online blood donation Application

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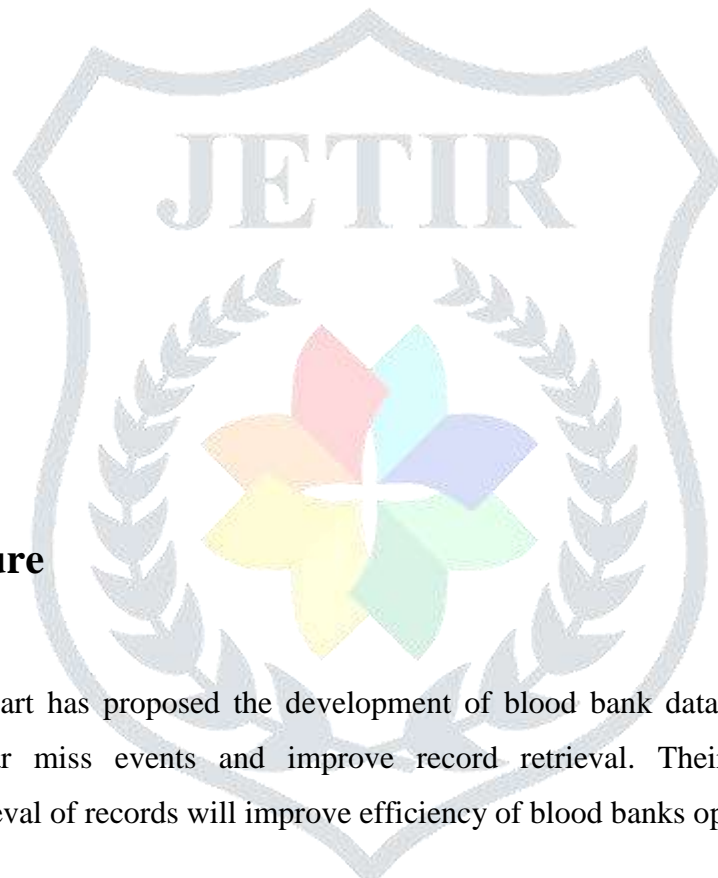**4. Shaik Moin**

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ABSTRACT

Our Project is all about developing an internet application using Php because the named GIVING = LIVING -A web application won't the check donors are available for an equivalent blood type in overall India and also because the normal user who required blood can by place and blood type. This gives the knowledge regarding which sort of blood groups present in our surroundings and you'll also register as a donor if you 18 years or above. The user given checking for the respective blood type can keep an invitation for the respective bank. This project also aims at maintaining all the knowledge concerning blood donors, different blood groups available from different places and help them manage in a better way. It maintains Online library of blood donors in everywhere. At any point of your time people that are in need of blood can reach the donors through our search facility. The people and organization who desire to form a difference in lives of individuals in need most are welcomed to register as a donor. This project aims to take care of all the knowledge of blood donors, different blood groups available in every area and help them manage during a better way. We aim to supply transparency during this field, make the method of obtaining blood from a donor hassle free and corruption free and effective of blood donation.

INTRODUCTION

Our project is an Php based Web application won't to be the prototype of this scenario of the organization of the blood banks. This project is meant for successful completion of project bank management system. Giving lives may be a browser-based system i.e., designed to store, process, and analyse information concerned with the executive and inventory management within a bank. This project aims to take care of all the knowledge of blood donors, different blood groups available in every area and help them manage during a better way. We aim to supply transparency during this field, make the method of obtaining blood from a donor hassle free and corruption free and effective of blood donation.

We can find the donors with same blood group without visiting the blood banks user will get information about donors. If the donor will not available with in local area. We can search donors from near local areas. We user is registered user then we can get list donors with same blood group across the world. We will search donors from near local areas. We user is registered user then we will get list donors with same blood type across the planet.

We can come know the real-world problems how they can solve with the effect techniques. we also chosen the real-world problem and make effect solution to that problem. Our aim to replace the blood banks with online web application like our share blood web application. Giving = living is planned to gather blood from many donators briefly from various sources and distributed that blood to needy people that require blood. the govt spending lot of cash to develop top quality "Blood bank management system".

Review of Literature

In [1], Mail trey D Gaijjart has proposed the development of blood bank data management system as a solution to prevent near miss events and improve record retrieval. Their argument is that with computerization fast retrieval of records will improve efficiency of blood banks operations.

In [2], Akshay V Jain Khanter has proposed a management information system application that covers some of the blood bank management issues related to a particular region.

In [3], Pah Essah and Said Ab Rahman has proposed the development of a management information system to manage blood bank based on information of donor, recipient and blood. Their system has three modules: the donor module, patient module and blood module. However, some crucial issues are left aside in this approach, for instance who is responsible for administration of the system.

In [4], Jeroen Benien and Hein Force has proposed a supply chain management for blood and blood products terming the process as irregular and the demand for blood stochastic. This is of great implications if the management of blood banks were to become effective.

In [5], Arif et al has proposed last date of blood donation, BMI and last date of contact between donor and receivers in an asterisk technology based automated blood donation system as recruitment factors in their work.

In [6], P. Priya and V. Saranya has proposed an efficient and reliable blood donor information and management system based on GIS integrated in android mobile application.

In [7], Jeroen Benien and Hein Force has proposed supply chain management for blood and blood products terming the process as irregular and the demand for blood stochastic. This is of great implications if the management of blood banks were to become effective.

In [8], Alfouzan has proposed the level of knowledge on blood donation, to identify positive and negative attitudes, find the obstacles, and suggest some motivational factors more over some education program arrangement to increase awareness of the range of people. Opening up the people way of thinking and motivate them to donate blood.

In [9], Teena, C.A, Sankar, K. and Kannan, S has proposed Bank Information System as an information management system that contributes to the management of donor records and blood bank. Their system allowed an authorized blood bank administrator to sign in with a password to manage easily the records of donors and patients who need blood.

In [10], Bani et al accessed the reasons of gender gap sampling donors who stopped donation at least two years before the study and also analysed frequency of donation.

In [11], E. M. S. S. Ekanayaka and C. Wimal adharma together proposed a Blood Bank Management system to gather all the blood donors into one place automatically and inform them constantly about the opportunities to donate blood via a SMS to the donor's mobile phone.

In [12], Ibrahim Fawze Akar, Tukur Anas Mohammad, Mohamed Ismail Z they proposed A way to implement a system that will provide a solution not only to blood centres but also to the numerous patients and willing blood donor. A blood bank is a central repository in which blood is stored and managed as a result of blood gathered by collection and donation which are preserved for future use in blood transfusion. There are numbers of online web-based blood bank management system existing for storage of data for blood centres and hospitals to maintain information of donors, blood available, as well as transaction information.

In [13], Finck et al has told the factors of motivation and deterrents of blood donation among high school blood donors.

In [14], Kumar, R., Singh, S. and Ragavi, V.A they developed a web-based blood management which assists the blood donor records management, and provides ease of control in the distribution of blood products in various parts of the country considering demands of hospitals.

In [15], Liyana, F has proposed Developed a web-based system to help the blood bank to record the donor details fast and easy. The system used rule-based decisions to ensure to have a right decision on right time. Also, system can send messages to donors if any particular blood type is needed. She developed blood bank system based on incremental model.

LITERATURE REVIEW

S. No	Author Name&Year	Work	Advantages	Disadvantages
1	**Mailtrey D Gaijjart (2002)**	A development of blood bank data management system as a solution to prevent near miss events and improve record retrieval. Their argument is that with computerization fast retrieval of records will improve efficiency of blood banks operations.	Data is secure and can be recovered even if fault tolerance occurs.	For wide range data this cannot work.
2	**Akshay V Jain Khanter (2009)**	A management information system application that covers some of the blood bank management issues related to a particular region.	An error in a particular region this work could be helpful.	We cannot work on world-wide.
3	**Pah Essah and Said Ab Rahman (2011)**	A development of a management information system to manage blood bank based on information of donor, recipient and blood. Their system has three modules: the donor module, patient module and blood module	Have a good knowledge about the patient information.	The major disadvantage is anyone they should stay in front the database to enter patient information.
4	**Jeroen Benien and Hein Force (2012)**	supply chain management for blood and blood products terming the process as irregular and the demand for blood stochastic.	Continuously calculating blood amount that is available.	-----------------------
5	**Arif et al. (2012)**	Last date of blood donation, BMI and last date of contact between donor and receivers in an asterisk technology based automated blood donation system as recruitment factors in their work.	Keeping the records of donors at which date and time that they had donated. An automated system to record the details.	----------------------
6	**P. Priya and V. Saranya**	An efficient and reliable blood donor information and management system based on GIS integrated in android mobile application.	Gathering good information of donors for mobile phone users.	Not all the people have android phones.

7	Jeroen Benien and Hein Force (2012)	Supply chain management for blood and blood products terming the process as irregular and the demand for blood stochastic. This is of great implications if the management of blood banks were to become effective. We bring attribute-based encryption with non-monotonic access structures and fine-grained attribute revocation into m-healthcare cloud computing system, which can flexibly achieve the target that we want to.	Health-related information is very critical to patients' lives; a good advice from a well-behaved doctor may be used to improve a patient's health condition significantly, while following an inappropriate instruction from a misunderstood person may put the lives of patients in danger.	-------------------------
8	Alfouzan (2014)	The level of knowledge on blood donation, to identify positive and negative attitudes, find the obstacles, and suggest some motivational factors more over some education program arrangement to increase awareness of the range of people.	Opening up the people way of thinking and motivate them to donate blood.	-------------------------
9	Teena, C.A, Sankar, K. and Kannan, S. (2014)	"A Study on Blood Bank Management", they defined Blood Bank Information System as an information management system that contributes to the management of donor records and blood bank. Their system allowed an authorized blood bank administrator to sign in with a password to manage easily the records of donors and patients who need blood.	The system provided many features including the central database, quick access to the system content through the login, includes the search code to find donors on a given basis, and the ease of adding and updating donor data. The main aim of the system was to complete the process of the blood bank. This system was designed to suit all types of blood banks.	------------------------
10	Bani et al. (2014)	Accessed the reasons of gender gap sampling donors who stopped donation at least two years before the study and also analysed frequency of donation.	The donors donating the blood time gap is very important so that the donors don't have the risk over the life.	--------------
11	E. M. S. S. Ekanayaka and C. Wimal adharma (2015)	A Blood Bank Management system to gather all the blood donors into one place automatically and inform them constantly about the opportunities to donate blood via a SMS to the donor's mobile phone.	Good way of approaching the people.	-------------
12	Ibrahim Fawze Akar, Tukur Anas Mohammad, Mohamed Ismail Z (2015)	A way to implement a system that will provide a solution not only to blood centres but also to the numerous patients and willing blood donor. A blood bank is a central repository in which blood is stored and managed as a result of blood gathered by collection and donation which are preserved for future use in		Manual systems as compared to computer-based information system are time consuming, laborious and costly. Thus, it also evinces

		blood transfusion. There are numbers of online web-based blood bank management system existing for storage of data for blood centres and hospitals to maintain information of donors, blood available, as well as transaction information.		praising computerization as a mechanism of achieving efficiency and effectiveness in this field and pointing out some crucial issues which are left aside such as proper responsibility for administration of the system.
13	**Finck et al. (2016)**	The factors of motivation and deterrents of blood donation among high school blood donors.		
14	**Kumar, R., Singh, S. and Ragavi, V.A. (2017)**	Developed a web-based blood management which assists the blood donor records management, and provides ease of control in the distribution of blood products in various parts of the country considering demands of hospitals.	The developed system was scalable and adaptable to meet the complex needs usually of a blood bank. Based on this study, since entering the details about the blood donors and related records were done manually, thus, tracking of blood donation activities was difficult and complicated, and even led to erroneous information.	Manual-based system can be waste of time, lead to the error-prone results, consumes a lot of manpower, lacks data security, data retrieval requires a lot of time, reports consume a long time to produce, and there is less precise accuracy on the results. As such, by developing and implementing a web-based blood management information system, there was a quick and timely access to donor records, and the system provided management timely, confidential and secured medical reports.

| 15 | Liyana, F. (2017) | Developed a web-based system to help the blood bank to record the donor details fast and easy. The system used rule-based decisions to ensure to have a right decision on right time. Also, system can send messages to donors if any particular blood type is needed. She developed blood bank system based on incremental model. She had chosen this model because the system can be developed through cycle of phase and also because of the advantages of this model such as:

I. Easy to understand to flow of the phases.
II. Changes possible in the middle of any phases.
III. The system can be developed even if there is an error in the middle and it can be corrected in testing phase. | It is important for every hospital to use an information system to manage data in blood bank. | The manual system has disadvantages for the user and the hospital. |

Proposed Work

This project is web-based application developed using php, css, bootstrap, html, MySQL and Xampp. Any user can access this site and donate blood nearby hospitals for the patients. For that user has to register to our website. The admin will check the request of the donator and accepts it.
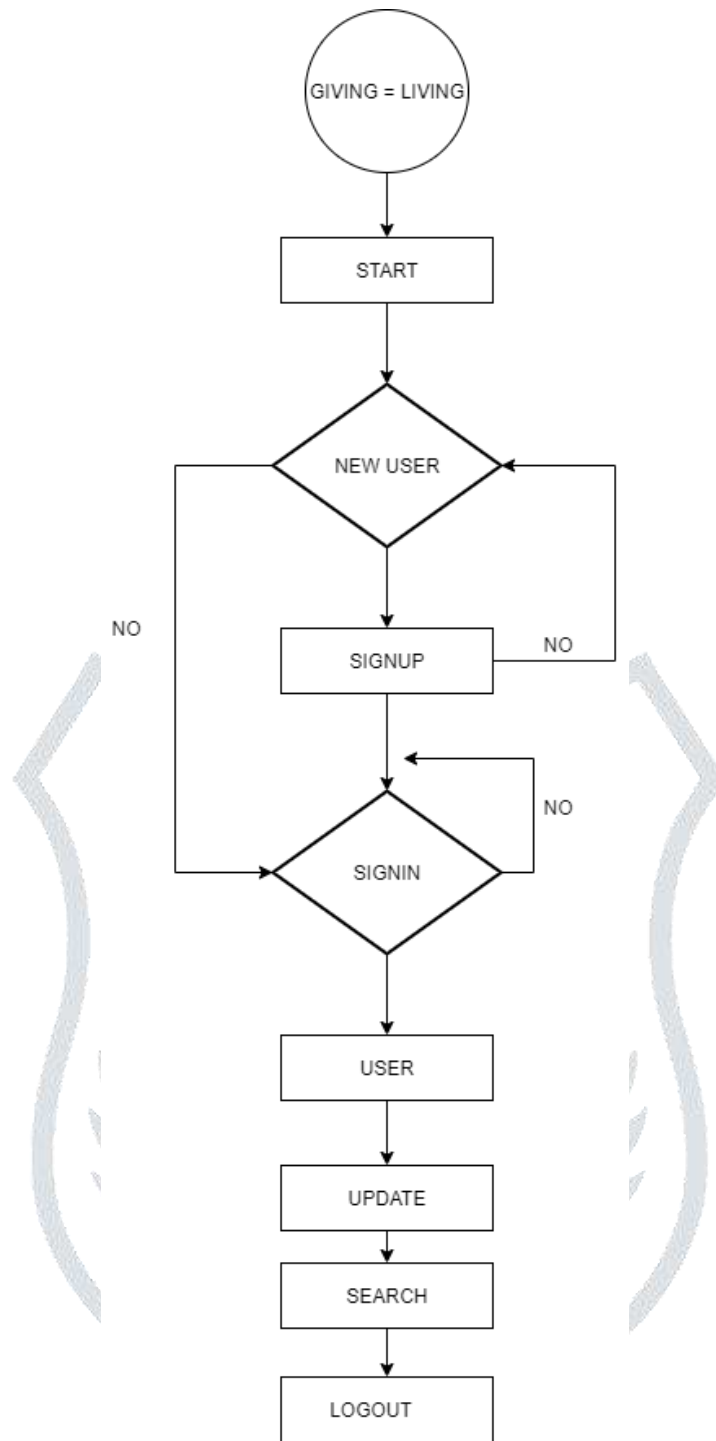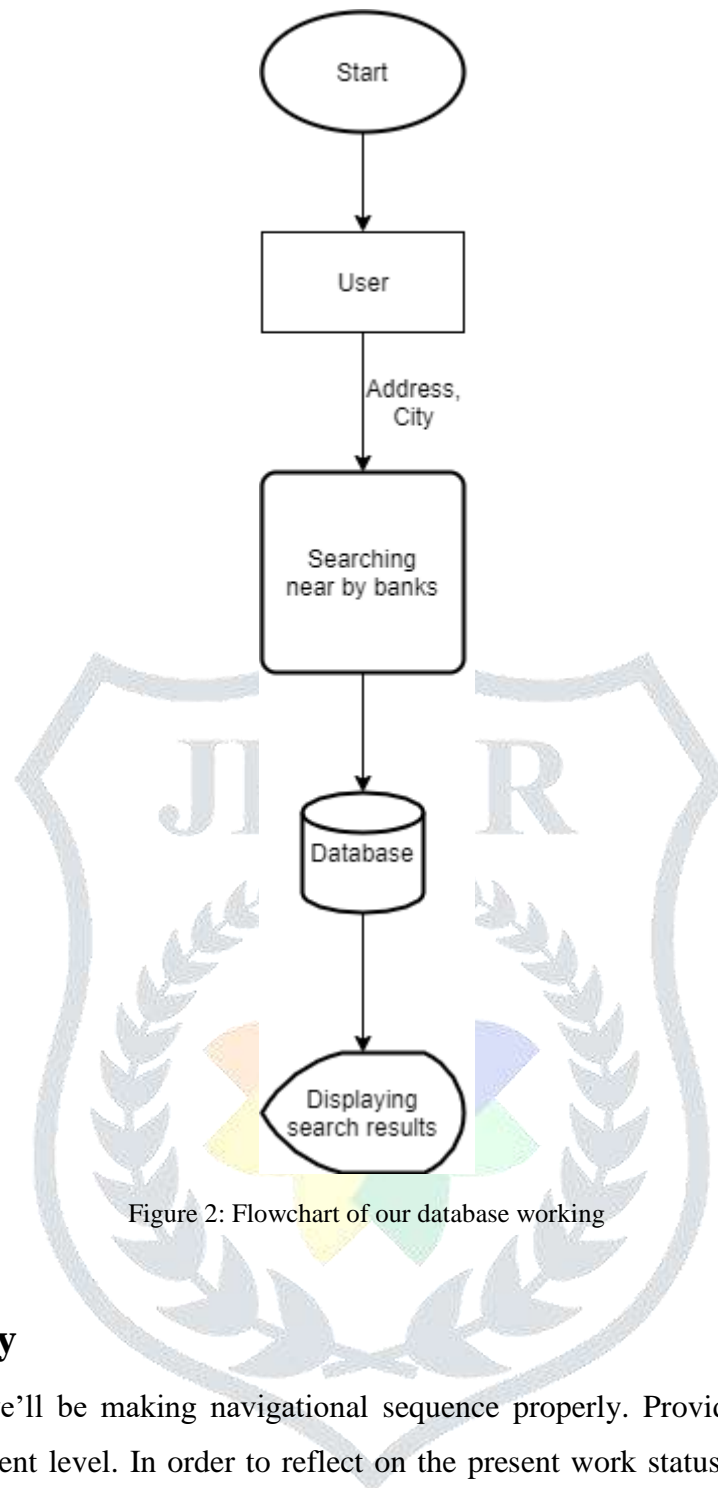
Figure 1: Flowchart of our system

Figure 2: Flowchart of our database working

Comparative study

In the new system we'll be making navigational sequence properly. Providing the more information about audits on different level. In order to reflect on the present work status counting on organization. This new system will debug the prevailing system by removing the procedures of knowledge redundancy. Using various controls, we provided user friendliness. This application has high level of security with different level of authentication. This application is far easier to manage and versatile. By clicking the URL, the latest updates allow users to download the alerts.

CONCLUSION:

The purpose of those literature reviews was to gather information on how a data system helped the management of blood banks. supported the reviews, it had been acknowledged that web-based bank systems provide convenience, efficiency and security to the system users and hospitals compared to the manual systems. it had been acknowledged that manual systems have many disadvantages that

disappoint and dissatisfy users. Indeed, online bank applications make work easy, and ensures fast retrieval of knowledge when needed. The building blocks of this Major Project "GIVING = LIVING" were one among these opportunities. It gave us the requisite practical knowledge to supplement the already taught theoretical concepts thus making us more competent as computer engineers. The project from a private point of view also helped us in understanding the subsequent aspects of project development:

• The planning that goes into implementing a project.

• The importance of proper planning and an organized methodology.

• The key element of solidarity and coordination during a successful project.

The project also provided us the chance of interacting with our teachers and to realize from their best experience.

RECOMMENDATIONS

GIVING = LIVING may be a web-based application inbuilt such how that it should suit all kinds of blood banks within the future.

 This point donor request doesn't reach in proper time, this may be avoided through adding some message sending procedure this will help to seek out proper donor in time. this may provide the supply of blood in time.

REFERENCES

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