



INTERNATIONAL JOURNAL OF ADVANCE RESEARCH, IDEAS AND INNOVATIONS IN TECHNOLOGY

ISSN: 2454-132X

Impact Factor: 6.078

(Volume 8, Issue 3 - V8I3-1370)

Available online at: <https://www.ijariit.com>

Blood Donation Management System

Selvinjerald S.

selvingerald@gmail.com

Jeppiaar Engineering College, Chennai, Tamil Nadu

Kishanth Kumar G.

kishanthtaaru@gmail.com

Jeppiaar Engineering College, Chennai, Tamil Nadu

Dr S. Venkatesh

venkyjep2019@gmail.com

Jeppiaar Engineering College, Chennai, Tamil Nadu

Sabari Vikram R.

vikramsabari2000r@gmail.com

Jeppiaar Engineering College, Chennai, Tamil Nadu

ABSTRACT

This task portrays the webbased blood gift the executive's framework. The fundamental goal of this application is to computerize the total tasks of the blood donation center and this undertaking is chiefly towards people able to give blood. Blood donation centers need to keep hundreds or thousands of records and furthermore looking ought to be extremely quicker, so for that they can find required subtleties in a flash utilizing this blood gift the board framework. Principal objective is to make a site which assists them with finishing their work quicker in straight forward manner through on the web. Likewise, our undertaking contains refreshed data.

Keywords: Blood, Donation, Management, Website, DATABASE.

1. INTRODUCTION

Blood gift is expected during an organ relocate, mishaps, disease treatment and so on. For blood gift, one requirements to check for a gift camp or needs to visit blood donation center. The Manual Blood gift framework has many inconveniences which incorporates, it is too tedious, frequently prompts mistake inclined results, consumes part of labor supply, needs contributor data, recovery of information takes a great deal of time, level of exactness is less. In the hour of crisis, it becomes hard to move toward the right giver.

Intriguing blood bunches are not accessible all the time at all blood donation centers and beneficiaries track down challenges to follow the right blood contributor. To defeat this issue, our Project has proposed a framework. This internet based blood gift the executive's framework keeps up with the rundown of blood givers and furthermore assists the beneficiaries with following and search the right contributor without any problem.

Individuals who need to give blood might enlist on our site with the assistance of username and secret word. The people who need blood can look and track down blood donars by utilizing the site. Subsequent to looking, a rundown of donars will be shown and client can get brief insights concerning their contact subtleties, email including their area, so they can impart.

2. LITERATURE SURVEY

"Blood Bank Management Information System in India" by Vikas Kulshreshtha and Dr. Sharad Maheshwari introduces the review of main features, merits and demerits provided by the existing Web-based Information System for Blood Banks. This study describes the comparison of various existing system and provide some more idea for improving the existing SYSTEM. "Benefits of Management Information System in Blood Bank" by Vikas Kulshreshtha and Dr. Sharad Maheshwari describes about the benefits of management information system in blood bank. The paper is basically focused on the blood bank management information system. It discusses about the beneficiaries of the blood bank management information system.

"Android Blood Bank" by Prof. Snigdha, Pratiksha Lokhande, Siddhi Kasar and Pranita More describes about the android application which timely updates the information regarding donors where the admin accesses the whole information about blood bank management system. The app provides list of blood banks depending upon the user's location.

In "The Optimization of Blood Donor Information and Management System by Technopedia" by P. Priya and V. Saranya, they have proposed an efficient and reliable blood donor information and management system based on GIS integrated in android mobile application. The service provided by the proposed system is needed and valuable to health sector where a quality of the blood is considered for the safety of the patient through a systematic process by the blood management system.

"A Study on Blood Bank Management System" by A. Clemen Teena, K. Sankar and S. Kannan is an information management system which helps to manage the 10 records of donors and patients at a blood bank.

The system will allow the authorized blood bank officer to login using a secret password and easily manage the records of the blood donors and the patients in need of blood.

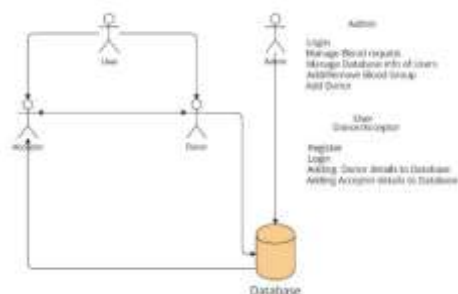
In “MBB: A Life Saving Application” by Narendra Gupta, Ramakant Gawande and Nikhil Thengadi , they have proposed the system that will link all donors. The system will help control a blood transfusion service and create a database to hold data on stocks of blood in each area as data on donors in each city. Furthermore, people will be able to see which patients need blood supplies via the application. They will be able to register as donors and thus receive request from their local clients who needs blood to donate blood in cases of need.

3. PROPOSED SYSTEM

It has two modules namely Admin and User. Admins can view the list of donors of a particular area with proper Blood cross match. He/she can also check for blood requests and in case of emergency he/she can send notifications to blood donors as per the requirements. Users can register and make a request. Users will be getting notifications in case of emergency. They can either accept or ignore it. This project aims at maintaining all information regarding blood donors, different blood groups available in blood banks as wells as blood camps and help them manage in a better way.

4. METHODOLOGY

It has two modules specifically Admin and User. Chairmen can see the overview of providers of a particular locale with genuine Blood cross match. He/she can moreover check for blood requests and assuming there ought to emerge an event of emergency he/she can send alerts to blood patrons as per the necessities. Clients can select and make a requesting. Clients will get admonitions on the off chance that there ought to be an event of emergency. They can either recognize or neglect it. This adventure targets staying aware of all information concerning blood providers, different blood bundles available in blood gift focuses as wells as blood camps and help them with regulating in a prevalent way.



5. ANALYSIS

1. Project Identification and Selection

In this task, we have intended to foster a web based blood gift the EXECUTIVE’S framework which will zero in for the most part on dealing with the contributor's blood data. Anyone with any interest at all in blood gift can give the blood by enrolling in this site

2. Project Initiation and Planning

To start the venture, we have accumulated client necessity of this site and arranged the extension and goal. The outcomes from this stage are extension and limit, targets, benefits, element of the proposed framework and UI plan.

3. Analysing System needs

We have contemplated and recognized issues of existing framework, then, at that point, we had created uml outlines for the current framework. We likewise created uml chart for the proposed framework.

4. Designing the Proposed System

In view of THE ANALYSIS PHASE, USER INTERFACE IS DESIGNED IN THIS PROCESS.

5. Development of the Proposed System

In this stage, we have changed the plan of proposed framework over completely to PC programming, which incorporates PC programming involving phpMyAdmin as a product apparatus written in PHP, which is expected to deal with the organization of MySQL, and making an interpretation of the plan particulars into the PC code.

6. Testing the Proposed System

This step is the process of testing whether the programming code will work correctly with the conditions in our website or not. In this phase, we had fixed bugs in order to produce a website with maximum performance.

7. Implementing the Proposed System

We then, at that point, associated it to web by making nearby host, so contributors had the option to see their blood gift records on the web and executives can make, update, erase, and question records helpfully

6. TESTING

Test-id	Testcase Title	Description	Expected Output	Result
1	Successful user verification.	The login to the system should be tried by admin with correct username and password .	Login should be successful and user should enter into the system.	Success
2	Unsuccessful verification due to wrong password	Login to a system with wrong password	Login should fail and user will face again login page.	Success
3	Unsuccessful verification due to invalid user name.	Login to a system with invalid user name.	login should fail and user will face again login page	Success

7. CONCLUSION

Consequently the site is made with two modules, for example, Admin and User with two submodules. The site facilitates the admittance to the blood of various gatherings expected by the sp

specific individual in need. The client can be aware of the close by blood accessibility relying upon his location. The site additionally enlightens us regarding the blood stocks as it is consistently updated. Hence the general essential data which is required for the contributor is made accessible in the site thus making it simple for the client to work

8. REFERENCES

- [1] **E.Prasanthi, K.Divya, Dr.Golda Dilip** International Journal of Pure and Applied Mathematics Saveetha Institute of Medical and Technical Sciences, Chennai.3Professor, Department of Computer Science & Engineering,2018
- [2] **Sara A. Hashim, Afnan M. Al-Madani, Shatha M. Al-Amri, Abeer M. Al-Ghamdi, Bayan S. Bashamakh. Nahla Aljojo**, Ph.D Computing and Information Technology, King Abdulaziz University, P.O.Box: 80221 Jeddah, 21589, Saudi Arabia, Life Science Journal 2014
- [3] **Abdur Rashid Khan*Corresponding author** Associate Professor, ICIT, Gomal University, Dera Ismail Khan, Pakistan International Islamic University, Islamabad, Pakistan International Journal of Digital Content Technology and its Applications Volume 3, Number 2, June 2009
- [4] **Subrata Talapatra** Assistant Professor, Department of Industrial Engineering and Management Khulna University of Engineering & Technology Khulna-9203, Bangladesh
- [5] **Raihanul Kabir** Department of Industrial Engineering and Management Khulna University of Engineering & Technology Khulna-9203, Bangladesh
- [6] **Akash Shingha Bappy** Department of Electronics and Communication Engineering Khulna University of Engineering & Technology Khulna-9203, Bangladesh International Conference on Industrial Engineering and Operations Management Bangkok, Thailand, March 5-7, 2019
- [7] **Sripanidkulchai, K., Shu Tao, Zon-Yin Shae "DA VINCI: A device to enhance VoIP call steering configurations"**, IEEE Network Operations and Management Symposium (NOMS), 2010
- [8] **Bing-Nan Li, Taipa Ming-Chui Dong ,Vai, M.I.** "From Codabar to ISBT 128: Implementing Barcode Technology in Blood Bank Automation System", 27th Annual International Conference of the Engineering in Medicine and Biology Society, 2005. IEEEEMBS 2005.
- [10] **Spyropoulos, B., Botsivaly, M., Tzavaras, A., Spyropoulou, P.** "Towards "computerized blood-keeping money"", ITU-T Kaleidoscope: Innovations for Digital Inclusions, 2009. K-IDI 2009.
- [11] **Adetunji I, A., Larijani, H.**, "Steering with a data transmission based calculation in virtual call focuses", IEEE Network Operations and Management Symposium, 2008. NOMS 2008.