

DAYANANDA SAGAR UNIVERSITY



A MINI PROJECT REPORT

ON

“BLOOD BANK MANAGEMENT SYSTEM”

SUBMITTED TO THE VII SEMESTER
WEB PROGRAMMING LAB - 2020

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE & ENGINEERING

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CERTIFICATE

This is to certify that the Web Programming Mini-Project report entitled “**Blood Bank management system**” being submitted by HARSHITHA M ,BHARAT NANDAN VERMA , KIRAN KUMAR M , MANASA S to Department of Computer Science and Engineering, School of Engineering, Dayananda Sagar University, Bangalore, for the 7th semester B.Tech C.S.E of this university during the academic year 2020-2021

Date: _____

Signature of the Faculty in Charge

Signature of the Chairman

DECLARATION

We hereby declare that the work presented in this mini project entitled “BLOOD BANK MANAGEMENT SYSTEM” has been carried out by us and it has not been submitted for the award of any degree, diploma or the mini project of any other college or university.

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1. ABSTRACT

The project aims at maintaining information about different blood groups available in each blood bank and helping them manage in a better way. This project is used to make the process of getting blood from a blood bank easy.

2. INTRODUCTION

The Blood Bank Management system is simple, and doesn't offer many features. It's a quick and perfect way to find the donor of a particular blood group along with their database to contact them.

People nowadays die due to the lack of blood caused due to accident finding the donor of a particular group is a time consuming work by that time the patient may even die. So this is a quick and simple application we need. It is a perfect way to find the donor.

2.1 SCOPE OF THE PROJECT:

This project has a large scope as it has the following features which help in making it easy to use, understand and modify it:

Donor Management - Donor Registration, Managing donor database, recording their physical and medical statistics.

- Inventory management in blood banks for storage and issuance of blood.
- Blood requisition and issuance of blood.
- Online transfer of blood from one blood bank to another.
- Discarding expired and unsuitable blood (Less Qty., Reactive, Clotting, Hemolysis).
- Being a web based system, can be implemented throughout the state. - - Separate user accounts can be created for each blood bank.
- Patient Register/Blood Sample Receiving Register, Donor Register, Blood Issue Register and Discarded Blood report.
- Fridge Wise Stock Position and Printing of Fridge Stickers.
- List of Donors who are eligible for donation on a particular date with contact Number.
- Camp Wise Donor List and Printing of Donor Cards.

3. PROBLEM STATEMENT

The project aims at maintaining information about different blood groups available in each blood bank and helping them manage in a better way. This project is used to make the process of getting blood from a blood bank easy.

4. OBJECTIVE

Blood Bank Management System (BBMS) is a browser based system that is designed to store, process, retrieve and analyze information concerned with the administrative and inventory management within a blood bank. This project aims at maintaining all the information pertaining to blood donors, different blood groups available in each blood bank and helping them manage in a better way. Aim is to provide transparency in this field, make the process of obtaining blood from a blood bank hassle free and corruption free and make the system of blood bank management effective.

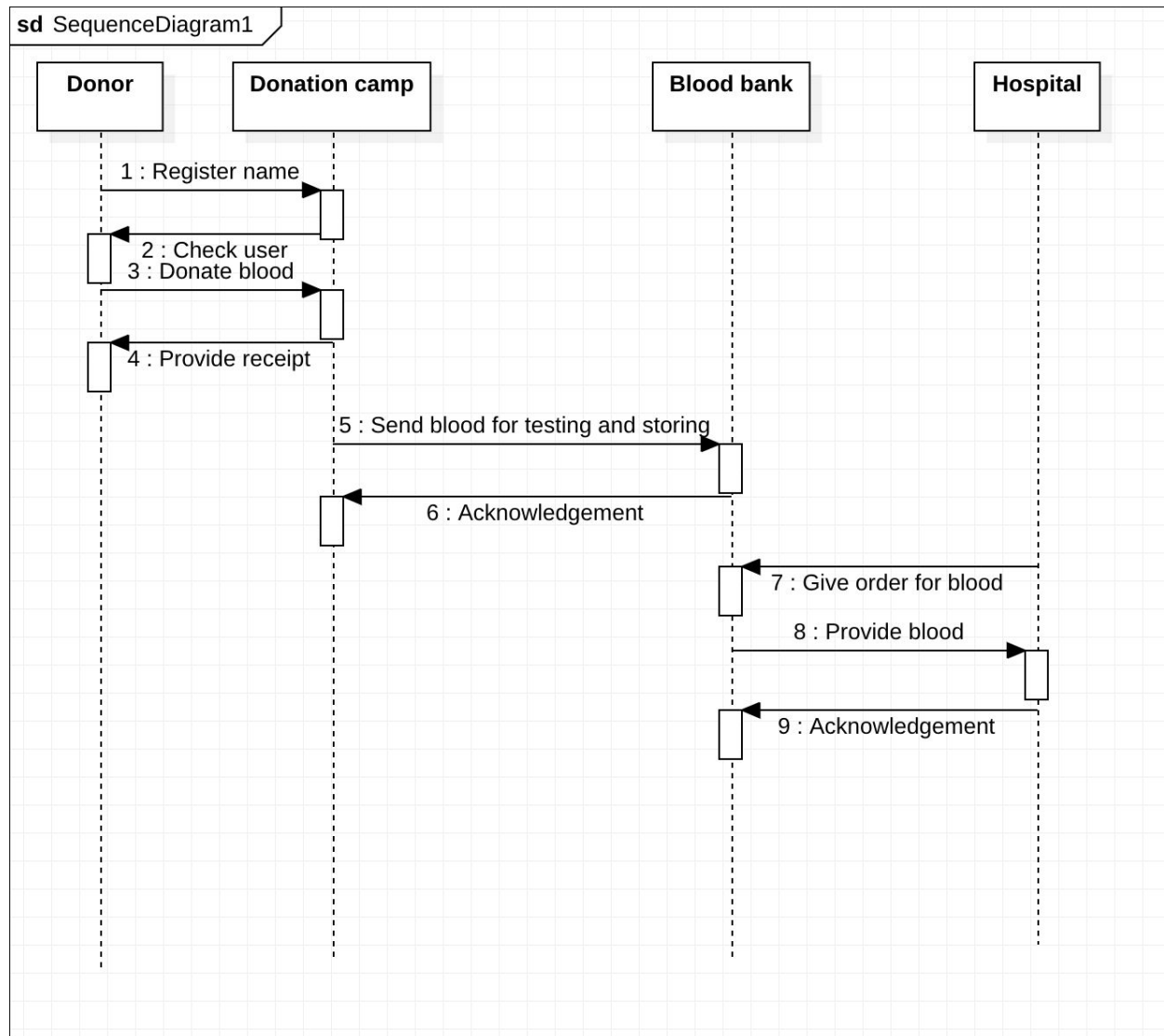
5. Literature Survey

Computerized Central Blood Bank Management System

Mohammed Y. Esmail; Yousra Sayed Hammad Osman

Blood is a vital constituent in human body that is indispensable for human life, it supplies nutrient and oxygen to all body cells, because of this essential role, blood bank was introduced in this paper. Manual systems as compared to computerized systems are time consuming, costly, and human errors. A computerized central blood bank management system was developed to assist in managing donor records, monitoring blood screening and storing, moreover provide secure medical reports to improve medical service delivery. The system was designed and implemented as a web-based using My SQL data base, PHP programming language and a bar-code technique. The outcome was obtained as screens that made the recording process of donor's data and blood easier so as to ensure the efficiency of transfusion process. The system was tested in the National Blood Transfusion Center NBTC of Khartoum-Sudan, it contributed to solve errors of manual system, time consuming and retrieve data, as well as met users' acceptance.

6. METHODOLOGY



7.SOFTWARE REQUIREMENTS

Front end: HTML, CSS, JavaScript

1. HTML: HTML is used to create and save web documents.
E.g. Notepad/Notepad++
2. CSS : (Cascading Style Sheets) Create attractive Layout
3. Bootstrap : responsive design mobile friendly site
4. JavaScript: it is a programming language, commonly used with web browsers.

Back end: PHP, MySQL

1. PHP: Hypertext Preprocessor (PHP) is a technology that allows software developers to create dynamically generated web pages, in HTML, XML, or other document types, as per client request. PHP is open source software.
2. MySQL: MySql is a database, widely used for accessing querying, updating, and managing data in databases.

7. HARDWARE REQUIREMENTS

- 4GB RAM or more
- 4GB memory or more
- Processor with clock speed 3GHz or above

8. RESULTS

BloodBank & Donor Management System

About Why Become Donor Become a Donar Search Blood Contact us

Become a Donor

Home / Become a Donor

Full Name* Mobile Number* Email Id

Age* Gender* Blood Group*

Address Message*

submit

Figure 9.1: Adding Donor's information

BloodBank & Donor Management System

Account

MAIN

- Dashboard
- Blood Group
- Add Donor
- Donor List
- Manage Conatctus Query
- Update Contact Info

Donors List

DONORS INFO

Download Donor List

# Name	Mobile No	Email	Age	Gender	Blood Group	address	Message	action
1 Manasa s	1234567890	manasas@gmail.com	Female	21	O+	jigani	hey	Make Hidden Delete
2 Bharath	4124124124	Bharath@gmail.com	Male	21	AB-	Bellary	ssup	Make Hidden Delete
3 Harshitha	4235235235	harshi@gmail.com	Female	23	A+	Electroniccity	Nothing	Make Public Delete
4 Kiran	3534543534	kiran@gmail.com	Male	20	O-	Kumaraswamy layout	hwwgww	Make Hidden Delete

Figure 9.2: Details of Donor's information

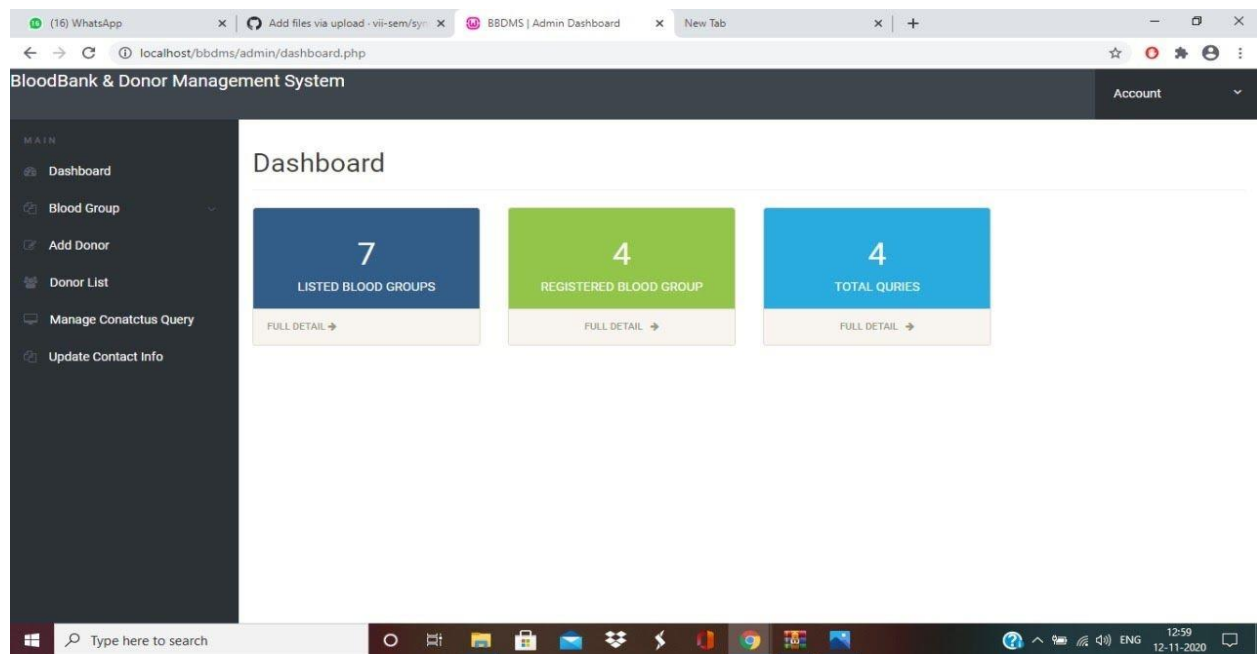


Figure 9.3: Dashboard

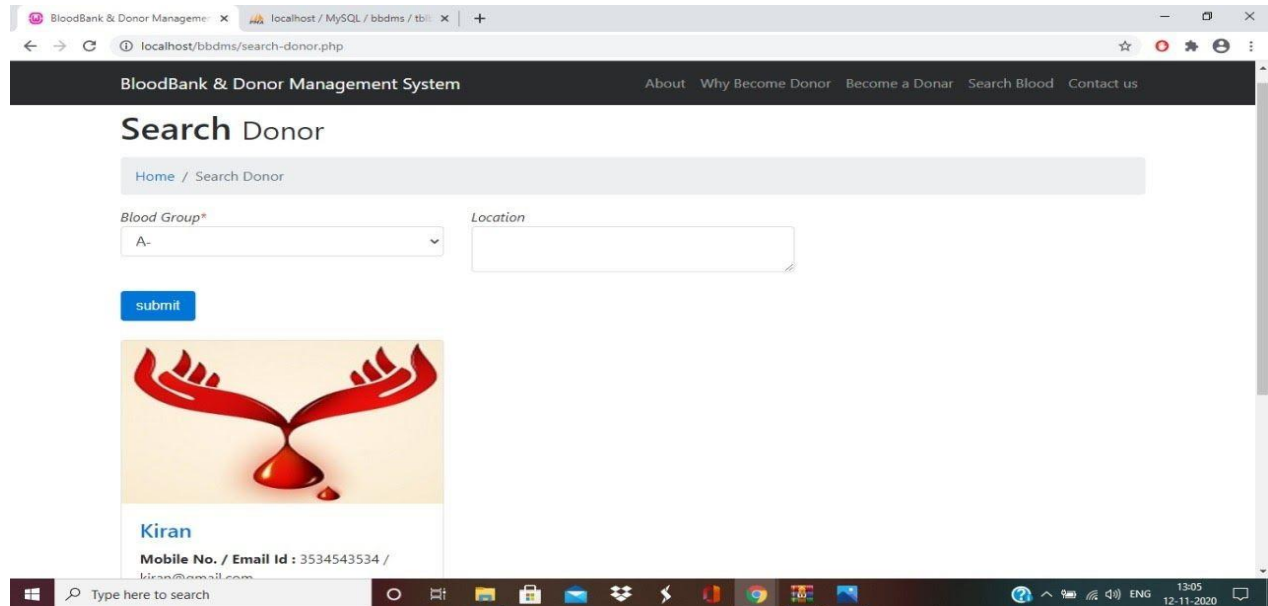


Figure 9.4: Searching for Donor

9. CONCLUSION

This project gives me more than enough opportunity for a web-based project to design, code, measure and execute. This has helped to implement the different software engineering and database management principles Concepts such as data integrity and continuity. This has also helped me find out more about JavaScript, HTML, CSS, MYSQL, JQUERY and Personal Web Server.

10. REFERENCES

- ❑ https://www.researchgate.net/publication/329519303_Blood_Bank_System
- ❑ <https://ieeexplore.ieee.org/document/8515789>