



Khwaja Moinuddin Chishti Language University Lucknow, U.P., (INDIA)

UTTAR PRADESH STATE GOVERNMENT UNIVERSITY (2022-23)

BLOOD BANK MANAGEMENT SYSTEM

SYNOPSIS

Team Member

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SUPERVISD BY:-

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1. Introduction: -

The **BLOOD BANK MANAGEMENT SYSTEM** is a great project designed for successful completion of project on blood bank management system. The basic building aim is to provide blood donation service to the city recently. Blood Bank Management System 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 helps them manage in a better way. Aim is to provide transparency in this field, make the process of obtaining blood bank hassle free and corruption free and make the system of blood bank management effective.

The Blood bank system project report contains information related to blood like

- Blood type
- Date of Donation of blood
- Validity of blood s
- Available blood group

Blood donation system in php is planned to collect blood from many donors in short from various sources and distribute that blood to needy people who require blood. To do all this we require high quality software to manage those jobs. The government spending lot of money to develop high quality "Blood Bank management system project". For do all those kind of need blood bank management system project in java contains modules which include the detail of following areas:

- Blood Donor
- Equipment
- Stock
- Blood collection
- Stock details
- Blood bank system project reports
- Blood issued
- Blood bank system project

Help Line is a voluntary and non-governmental organization. It maintains online library of blood donors in India. Sometimes Donors and blood bank project have attempted to provide the answer by care of people in need.

At any point of time the people who are in need can reach the donor through our search facility. By mobilizing people and organization who desire to make a difference in the lives of people in need. On the basis of humanity everyone is welcome to register as a blood donor.

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1.1 Problem statement: -

Every year our nation requires about 4 crore units of blood, out of which only A meager 5 lakh units of blood are available. It is not that, people do not want to donate blood. Often, they are unaware of the need and also, they do not have a proper facility to enquire about it. As a result, needy people end up going through a lot of pain. India has many blood banks, all-functioning in a decentralized fashion. In the current system, individual hospitals have their own blood banks and there is no interaction between blood banks. The management is ad-hoc with no semblance of organization or blood from blood banks other than the banks where they have donated blood.

1.2 Problem Question[s]: -

An efficient blood bank management system should be developed, with the aim of ensuring that every patient has access to an adequate quantity of safe blood in a centralized manner. The management system should solve the issue of demand and wastage and lead to self-sufficiency in blood requirement. This should encourage new donors and retain old donors to donate blood.

1.3 Hypothesis [if applicable]:-

2. Objective

2.1 Primary Objective [specific]: -

To develop a blood bank management system to facilitate the co-ordination between supply and demand of blood. This system makes conveniently available good quality, safe blood and other blood components, which can be provided in a sound, ethical and acceptable manner, consistent with the

long-term wellbeing of the community. It actively encourage voluntary blood donation, motivate and maintain a well-indexed record of blood donors and educate the community on the benefits of blood donation. This will also serve as the site for interaction of best practices in reducing unnecessary utilization of blood and help the state work more efficiently towards self-sufficiency in blood.

Blood Bank Management System, this system bridges the gap between the demand and supply of blood. This portal aims to bring blood donors and recipients under a common on-line platform. Donors can register themselves on the site after going through the basic requirements for donating blood. This portal also has useful information regarding blood donation such as scientific information, tips and facts.

2.2. Secondary Objective [if any]: -

To conduct a study on blood donor management

To design an electronic blood donor management system

To validate the design using a prototype

3. Methodology

1 Place of study: -

First of All, I did a search from Google and GitHub and then increased my knowledge. After that studied many papers of internet. Then again collected all the information in one place

2. Setting of study: -

Description of the study environment including the location and experimental setup. For studies of web usage, this includes the browsing environment as well as any visible data collection methods. And all the trial and software testing function with experiment are conducted in paper condition in our devices and in presence of all teammates.

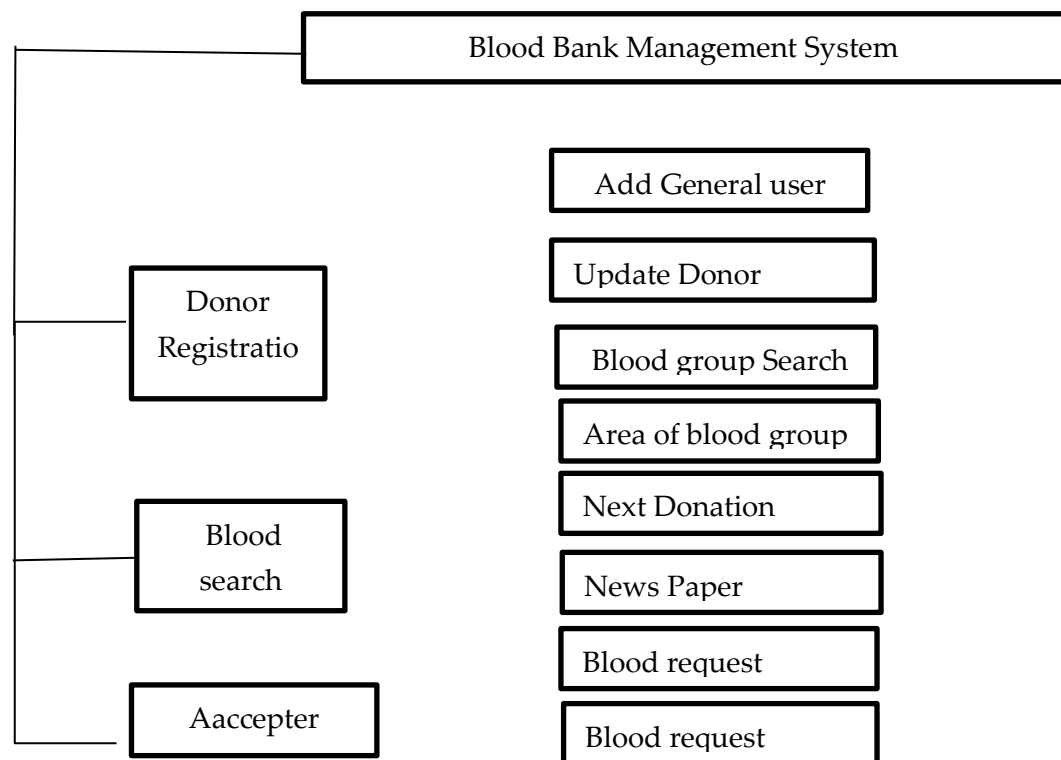
3. Period of study: -

means a period of study at a design the software of at least 12 consecutive weeks in a loan year;

4. Study of design: -

Study design is a blueprint or a set of methods and procedures, used for gathering, measuring and analysing the data. A common error made by investigators is to begin research way too soon! Foremost, it is important to critically evaluate the kind of data required to address the research problem.

SYSTEM ARCHITECTURE



5. Study population [Accessible Population]:-

the study for this project done within the 4 teammates and then verified by our friends, which is enough for the validation of a basic software.

6. Study Tools and Technique and intervention [if any]:-

PHP, HTML, CSS, JavaScript, Bootstrap and MySQL Database as Back-End.

6.1 HARDWARE SPECIFICATION

VIRTUAL MEMEORY

PROCESSOR: 32 BIT, Pentium – IV

RAM: 256 MB

HARD DISK: 40 GB

MONITOR: SVGA Monitor (800 * 600RESOLUTIONS)

CLOCK SPEED: 266 MHz

FLOPPYDRIVE: 1.44 MB

6.2 SOFTWARE SPECIFICATION

OPERATING SYSTEM: WIndows 2000/XP.

FRONT END: Net Beans IDE 6.9 JSP, HTML, SERVLET

MIDDLEWARE: J2EE

BACK END: MY-SQL 5.0

SERVER: Apache Tomcat

7. Data Collection Method: -

All the data for this project is mostly coded by our own hands and the remaining research is done from geekforgeeks.

8. Data Management: - Data management is done by DBMS in our project and language is MySQL

9. Data Analysis: -

Data Analytics is done through multiple channels which are GitHub, Internet resource, IT technical and YouTube, Reading articles and news

10. Role/Participation of each group members: -

VISHAL (coder /testing)

AKSHAY PRATAP (coder/testing)

SHALU CHAURASIYA(SRS)

4. Expected Outcome: -

With the theoretical inclination of our syllabus, it becomes very essential to take the at most advantage of any opportunity of gaining practical experience that comes along. The building blocks of this Major Project “BLOOD BANK Management System” was one of these opportunities. It gave us the requisite practical knowledge to supplement the already taught theoretical concepts thus making us more competent as a computer engineer. The project from a personal point of view also helped us in understanding the following 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 team spirit and co-ordination in a successful project. The project also provided us the opportunity of interacting with our teachers and to gain from their best experience

6.Scope of Future Application

BLOOD BANK MANAGEMENT is a software application to build such a way that it should suits for all type of blood banks in future.

One important future scope is availability of location-based blood bank details and extraction of location-based donor's detail, which is very helpful to the acceptant people. All the time the network facilities cannot be use. This time donor request does not reach in proper time, this can be avoided through adding some message sending procedure this will help to find proper blood donor in time. This will provide availability of blood in time

6. References: -

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- Bharat Blood Bank, <http://www.bharatbloodbank.com>
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- <http://www.javaworld.com/javaworld/jw-01-1998/jw-01-Credentialreview.html>
- Database Programming with JDBC and Java by O'Reilly
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- <http://www.jdbc-tutorial.com/>
- Java and Software Design Concepts by Apress
- <https://www.tutorialspoint.com/java/>
- <http://www.javatpoint.com/java-tutorial/>
- <https://docs.oracle.com/javase/tutorial/>
- <http://www.wampserver.com/en/>
- <http://www.JSP.net/>
- <http://www.tutorialspoint.com/mysql/>
- <http://d.apache.org/docs/2.0/misc./tutorials.html>

7. Annexure: -

FEEDBACK REVIEW FORM-2022

Principal Investigators	
Department	
Guide	
Title	
Suggestions: [First Review]	
[Second Review]	
Signature of Candidate Signature of Guide	
Examiners: 1. _____ 2 _____ 3. _____	