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**CIIT-FA17-BSE-080**

Blood Bank Management System

[sOFTWARE REQUIREMENT SPECIFICATION]

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1. **Introduction:**

This project is developed to manage the blood stock in the blood bank management system and blood prices are maintained in the database.  
New blood details are entered into the database to manage blood details. This project is designed for the blood bank to gather blood from various sources and distribute it to the needy people who have high requirements for it.

* The software is designed to handle the daily transactions of the blood bank and search the details when required.
* It also helps to register the detail of the donor, blood collection details as well as the blood issues report(rejected ones).
* The software application is designed in such a manner that it can suit the needs of all the blood bank requirements in the course of future.
  1. **Purpose:**

The purpose of the BBMS is to simplify and automate the process of searching for blood in case of emergency and maintain the records of blood donors, recipients, blood donation programs and blood stocks in the bank.

* 1. **Scope:**

The system is used for maintaining all the process and activities of blood bank management system. The system can be extended to be used for maintaining records of hospital, organ donation and other similar sectors. While developing the system, there shall be space for further modification. There shall be a proper documentation so that further enhancement becomes easy.

* 1. **Definitions, acronyms, and abbreviations:**

BBMS: Blood Bank Management System.

* 1. **References:**

<https://www.phptpoint.com/projects/blood-bank-management-system/>

<https://www.researchgate.net/publication/282557014_Development_of_a_Blood_Bank_Management_System>

<https://www.scribd.com/document/335504708/BLOOD-BANK-MANAGEMENT-SYSTEM-PROJECT-REPORT-docx>

* 1. **Overview:**

The proposed Blood Bank management system helps the people who are in need of a blood by giving them all details of blood group availability or regarding the donors with the same blood group

Its saves receiver time he or she can contact just with the blood bank admin then he can find blood availability or in case when blood is not available they can contact with the same blood group donor for saving a life

Our system just used by one person who can signup for his/her id giving details like email and then he can login the system daily with that user name and password

We did this due to security purpose because all the details of donor and receiver ,doctor and nurses details are available in this Data base so we need a secure system .

1. **Overall Description:**

The system that is going to be developed is Blood Bank Management System (BBMS). This is a web-based database application system that is to be used by the blood banks or blood centers as a means to advertise the nation wide blood donation events to the public and at the same time allow the public to make online reservation and request for the blood. The system keeps the record of all the donors, recipients, blood donation programs, rejected bloods. For internal works and activities intranet is used and for interaction with public internet is used. This system also has the ability to keep track of the donor's donation records and the blood stock in the blood bank. This project intends to computerize the blood and donor management system in a blood bank in order to improve the record management efficiency due to the grown size of records of data.

* 1. **Product Perspective:**

The goals and objectives of the Blood Bank Management System are as follows:

1. To provide a means for the blood bank to publicize and advertise blood donation programs.

2. To allow the probable recipients to make search and match the volunteer donors, and make request for the blood.

3. To provide an efficient donor and blood stock management functions to the blood bank by recording the donor and blood details.

4. To improve the efficiency of blood stock management by alerting the blood bank staffs when the blood quantity is below it par level or when the blood stock has expired.

5. To provide synchronized and centralized donor and blood stock database.

6. To provide immediate storage and retrieval of data and information.

* 1. **Product Functions:**
* Admin manage both donor and acceptors. He add or remove any user from the system and can update the record .Admin have a username and password by using that he can login.
* Blood Donor donates of blood.
* Registers the Donor by the system admin.
* Change personal, contact details by the system admin.
* Withdraw reg. details by the Admin.
* Send blood donation details to the relevant Donors.
* Send Blood testing details.
  1. **User Characteristics:**

The user of this system are donors and receivers, also the doctors and nurses who will maintain this system.

All users are:

BLOOD  
BLOOD DONOR  
RECIPIENT  
NURSE  
BLOODBANK  
HOSPITAL  
DOCTOR

* 1. **Design and Implementation Constraints:**

The information of all the donations, supplied blood, blood bank programs, blood tests, and registration is stored in a database .

The BBMS is connected with the internet and is up 24/7.

Donors/ Recipients can log in to the system through Sign In.  
All users of the system must have to enter correct login details in order to access the system.

* 1. **Assumptions and Dependencies:**

>Users have necessary knowledge of Sign Up/Sign In.  
>Blood will only be acceptable if it has no disease.  
>All users must be registered by the nurses before accessing the system.  
>Nurses must be available all the time for registration.  
>Doctors must be available to verify the blood.

**3 System Features:**

**3.1 Functional Requirements:**Login of admin.

* Blood Donor donation of blood.
* Registers the Donor by the system admin.
* Change personal, contact details by the system admin.
* Withdraw reg. details by the Admin.
* Send blood donation details to the relevant Donors.
* Send Blood testing details.

**3.2 Non Functional Requirements:**

**Availability:**  
The system will be available round the clock.  
**Security:**  
All the data of the users are secure.  
**Usability:**  
The system is user friendly and easy to use.  
**Maintainability:**  
It is easy to change.