**SRS Report for Online Blood Bank System**

**INTRODUCTION:**

* 1. **PURPOSE:**

The purpose of this document is to build a online system that will manage the blood bank present in different areas of certain cities to ease the patients.

* 1. **DOCUMENT CONVENTION:**

This document uses following conventions:

|  |  |
| --- | --- |
| DB | Data Base |
| BB | Blood Bank |

* 1. **INTENDED AUDIENCE AND READING SUGGESTIONS:**

This project is a prototype of BB system. This has been implemented under the guidance of experienced BB head, co-workers and professors from Computer Science Department. This project is useful for donors who wants to donate their blood and the patient who needs blood.

* 1. **PROJECT SCOPE:**

The scope of online BB system is given as:

* Routine Blood transfusion.
* Emergency issue of blood.
* Management of returned and unused blood units.
  1. **REFERENCES:**
     + www.wikipedia.com
     + academia.edu

**2. OVERALL DISCRIPTION:**

**2.1 PRODUCT PRESPECTIVE:**

* The purpose of online BB system is to ease the availability of blood and to create a convenient and easy to use app for the patients as well as donors who want to donate their blood willingly.
* It also provides an efficient donor and blood stock management function to BB by recording the donor and blood details.
* It also improves the efficiency of blood stock management by alerting the blood bank staff when the blood quantity is below its pre-set level or when the stock reached its expiry date.
* It also provides synchronized and centralized donor and blood stock base.

**2.2 PRODUCT FEATURES:**

The product provides us following features:

* **Login:**

The system provides us the security feature through login system. In this system there is login page which is mandatory for all type of users (including donor and recipients). The user will sign in through its user name and password which was assigned to him.

Input=username and password.

Output=invalid or valid

If valid then update your blood status or logout.

* **Donor profile registration:**

This provides the environment to register as volunteers.

Input= Donor/Recipient, Name, Id, Date of birth, Sex, Blood Group, Address, Contact number, Disease (if any) and ID card number.

Output= Successfully registered.

* **Blood Stock Management:**

The blood bank staff can manage the blood stock starting from the collection to blood screening, processing, storing, and transfusion. Each process can be traced through database. The system will also raise alert when the blood stock will below the required range and when the blood stock reached its expiry date.

* **Donor/Recipient Records:**

The record of all donor and recipient will be stored in a centralized database and thus records cannot be duplicate.

* **Reports:**

The system will be able to generate a report related to the staff, amount of blood, recipient, donors.

Input=username and password.

Output=today’s report, weekly report, monthly report and yearly report.

**2.3 OPERATING ENVIRONMENT:**

The software will operate in following environment.

* Distributed Database.
* Client/Server based.
* Operating System: Windows,
* Platform: Java/PHP.
* Database: Sql+database.

**2.4 DESIGN AND IMPLEMENTATION CONSTRAINTS:**

* The global schema, fragmentation and allocation schema.
* SQL commands for above queries/application.
* Implementation of database at least using a centralized database management system.