**Document**:System Requirement Specification Document

**Title**:System Requirement Specification for **ONLINE BLOOD BANK MANAGEMENT SYSTEM**

**Team:**

Direct Customer, Indirect Customer,Architect, Business Analyst

Quality Assurance Team,

System Analyst

**Objective (Purpose):**

Blood Bank Management Software is designed & suitable for several Blood Bank either operating as individual organization or part of Hospital. It covers all Blood banking process from Donor recruitment, donor management, mobile sessions, component preparation, screening covering all tests, blood stock inventory maintenance, patient registration, cross matching, patient issues etc

**Scope:**

 The scope of the specification includes the following scenarios:

1.Routine blood transfusion

2.Transfusion for special requirements (eg.- irradiated blood or antigen negative blood)

3.Emergency issue of blood

4.Management of returned and unused blood units.

**Definitions:**

OSS: Online Shopping System

QA: Quality Assurance

Portal: Personalized Online Web Application

MIS: Management Information System

CRM: Customer Relation Management

BI: Business Intelligence

Dashboard: Personalized information presented using BI techniques such grid, score card, graph.

**Requirements:**

**Functional Requirements:**

1.Login

The system provides security features through username-password matching where only authorized user can access the system with different authorization level.

Admin-

Input:-Username, Password

Output: - Invalid or Update Blood Details, logout

2.Donor Profile Registration

This allows healthy public to register as volunteer donor.

Input:- Donor/ Recipient Id, Name, Date of Birth, Sex, Blood Group,Address, Contact Number, Email Address, Diseases (if any),Aadhar Card No.

Output: - Successfully Registered.

3.Blood Stock Management

The blood bank staffs can manage the blood stock starting from the blood collection, to blood screening, processing, storage, transference and transfusion through this system. Each process or work-flow can be traced from the database.The system will also raise alert to the staff whenever the blood quantity is below its par level or when the blood in stock has expired.

Donor/Recipient Management-

The records of all donors/recipient and their history are kept in one centralized database and thus reducing duplicate data in the database. The record of donation is maintained by the system.

Input:-Blood Type

Output:-No. of Blood Bottle Available

4.Reporting

The system is able to generate pre-defined reports such as the list of donors, recipients, staffs, the blood quantity in the bank and charts.

Input:-Admin Username, Admin Password

Output:-

Today’s Report, Month Report, Year Report

**Non-Functional Requirement:**

1.Availability

The system should be available at all times, meaning the user can access it using application.In case of a of a hardware failure or database corruption, a replacement page will be shown. Also in case of a hardware failure or database corruption,backups of the database should be retrieved from the application data folder and saved by the administrator.It means 24 x 7 availability.

2.Security

The system use SSL (secured socket layer) in all transactions that include any confidential customer information.

The system must automatically log out all customers after a period of inactivity

3.Performance

The system is interactive and the delays involved are less.When connecting to the server the delay is based editing on the distance of the 2 systems and the configuration between them so there is high probability that there will be or not a successful connection in less than 20 seconds for sake of good communication.

4.Reliability

As the system provide the right tools for problem solving it is made in such a way that the system is reliable in its operations and for securing the sensitive details.