**Introduction:**

In today’s world, there is a need for a proper and robust platform where donors and doctors can get connected for blood donation, so that every patient can get the required blood within time.

The blood bank management system aims to fulfill the gap between blood donors and doctors. When a blood donor gets an easy and suitable platform to register and donate blood, it becomes easier for many people who wish to donate blood but cannot find a proper platform for it due to their busy schedules.

Blood Bank Management System is a browser based solution that is designed to store, process, retrieve and analyze information concerned with the administrative, inventory management and clinical aspects of providing services within a blood bank. It simplifies and automates the process of searching for blood in case of emergency and maintain the records of blood donors, recipients and blood stocks in the bank.

**Problem Statement:**

The current system that is used by the blood bank is manual system. With the manual system, there are problems in managing the donors’ records. The records of the donor might not be kept safely and there might be missing of donor’s records due to human error or disasters. Besides that, errors might occur when the staff keeps more than one record for the same donor.

There is also no centralized database used to keep the donors’ records. So, it becomes really tedious for a person to search blood in case of emergency. The only option is to manually search and match donors and then make phone calls to every donor. Each bank is having their own records of donors. If a donor makes donation in different hospital, no previous records can be traced except if the donor brings along the donation certificate. In addition, there is also no alert available when the blood quantity is below its par level or when the blood in the bank has expired.