1. **Introduction**

**Online blood bank 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 group available in each blood bank and help to manage in a better way.

Online blood bank system is amid at promoting the awareness of blood donating among the public act for humanity aims to eachance the humanistic element of each individual & prepare them to be tolerant , responsive accountable & responsible social citizen. This project is aimed to serving for human welfare. Through this application any person who is interested in donating the blood can resister himself in the same way if any organization want to resister itself with this site that can also register. Moreover if any general customer want to make request blood online he can also take the help of this site.

Admin is the main authority who can do addition, deletion and modification of required.

The project has been planed to having the view of distributed architecture, with centralized storage of the database. The application for the storage of data has been planed. Using the constructs of SQL Server and all the user interface has been designed using the ASP.Net technologies.

1. **SCOPE OF PROJECT**

The system present an alert system to the donor about requirement of their blood to person in need and also provide online status of blood group wise availability of blood unit in all licersed blood bank in state.

**2.1)Existing System:**

* In the existing system the exam are done only manually but in proposed system we have to computerize the exams using this application.
* Lack of security of data.
* More than power.
* Time consuming
* Consumes large valume of pare work.
* The operation of blood bank still now is maintained in the manual system.
* The operations is tedious, time consuming and space consuming.
* It creates rooms to errors as the data is entered manually by the persons.
* It include the risk of document being lost over year & maintenance of the record is difficult.
* The data recorded during testing or while acquiring the details of different aspect of blood bank is not so accurate and precise.
* Maintaining the stock of blood & the daily transaction without computerization also poses a challenge.

**2.2) Need have computerized system:**

* To add new feature in existing system.
* To avoid the drawback of previous system.
* To provide the number of operation on the database
* To provide the user friendly environment
* For saving the time of user
* To create the network in between users.

**2.3) Proposed System:**

* The aim of the proposed system is to developed facilities. The proposed system can avercome all the limitations of the existing system. The system provides proper manual work.
* Security & Data.
* Ensure & Accuracy
* Proper control of the higher officials.
* Minimize manual data entry.
* Minimum time needed for the various processing
* Greater efficiency
* User friendliness and interactive.
* Minimum time required
* Online blood bank is web based project
* Person who need blood can search and find the blood which group they need.
* After searching a list of donor will be displayed
* Then user can communicate with them easily.

**Advantages:**

* Easy way to find donor
* Less time
* No need to search blood centers and no need to wait in queue.
* User can find their specific blood group
* User can find donor contact details
* User can communicate with donor by making call or messaging directly
* Details of all blood group
* If any particular blood group is not there we can get the stock from else where in advance.

**3)REQURIMENT ANALYSIS**

**3.1) Feasibility Study:**

Preliminary investigation examine project feasibility, the likehood the system will be useful to the organization. The main objective of the feasibility study is to test the Technical, Operational and Economical feasibility for adding new module and debugging old running system. All system is feasible if they are unlimited resource and finite time. There are aspects in the feasibility study portion of the preliminary investigation.

**3.1.1) Technical Feasibility Study:**

The technical issue usually raised during the feasibility stage of investigation includes the following:

* Does the necessary technology exist to do what is suggested?
* Do proposed equipments have technical capacity to hold the data required to use the new system?
* Will the proposed system provide adequate response to inquiries, regardless of the number or location of users?
* Can the system be upgraded if developed?
* Are there technical guarantees of accuracy, reliability ease of access and data security?

The current system is developed technically feasible. Thus it provide an easy access to the users.

The database’s purpose is to create, establish and maintain of a work flow among various entities on order to facilitate all concerned users in their various capacities or roles. Permission to the user would be granted based on the role specified. Therefore, it provides the technical guarantee of accuracy, reliability and security.

**3.1.2) Operational Feasibility Study:**

Proposed project are beneficial only if they can be turned out into information system. That will meet the organization’s operating requirements. Operational feasibility aspects of the project are to be taken as an important part of project implementation. Some of the important issues raised are to test the operational feasibility of a project includes the following:-

* Is there sufficient support for the management from the users?
* Will the system be used and work properly it is being developed and implemented?
* Will there be any resistance from the user that will undermine the possible applications benefits?

This system is targeted to be accordance with the above-mentioned issues. Beforehand the management issues and user requirements have been taken into considerations.

**3.1.3) Economical Feasibility Study:**

A system can be developed by technically and that will be used if installed must still be a good investment of the organization. In the economical feasibility, the development cost in creating system is evaluated against the ultimate benefit derived from the new system. Financial benefits must equal or exceed the costs.

The system is economically feasible. It does not require any addition hardware or software. Since the interface for the system is developed using the existing resources.

**3.2) Economical Feasibility Study:**

Fact finding techniques is process of collection of data and information based on technique which contain sampling of existing documents , research, observation, questionnaires, interviews, prototyping and join requirement planning. System analyst uses suitable fact finding technique to develop and implement the current existing technique. Fact finding technique are used in early stages of system development life cycle including system analysis phage, design and post implementation preview.

Facts included in information system can be stored based on three step: Data facts used to create a useful information, processes function to perform the objective, Interface design to interact with user.

**8) LIMITATION OF CURRENT SYSTEM :**

Maintenance and updating of blood bank records, currently are done manually which at times, results in loss of critically important records or delayed information updates. Listed below are some problem that are faced by the blood bank officials while using the present system.

Records are maintained in book or files and are subject to loss and damage. Difficult to calculate amount of blood in stock, difficulties in retrieving data. Record are very liable to be misfiled or soiled. Security of records are minimum, difficult of making report, difficulty in identifying blood expiry date.